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BlogForever: D5.1 Design and Specification of Case Studies

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Abstract: This document presents the specification and design of six case studies for testing the BlogForever platform implementation process. The report explains the data collection plan where users of the repository will provide usability feedback through questionnaires as well as details of scalability analysis through the creation of specific log files analytics. The case studies will investigate the sustainability of the platform, that it meets potential users' needs and that is has an important long term impact.

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University of Glasgow (UG)	UK
The University of Warwick (UW)	UK
University of London (UL)	UK
Technische Universitat Berlin (TUB)	Germany
CyberWatcher (CW)	Norway
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Executive Summary

This report is the first step in the planned evaluation of the BlogForever platform. The goal is to explain how to test the BlogForever platform specifications, its user requirements and corresponding features as detailed in Work Package 4 (WP4).

In order to do this, Task 5.1 has the following main tasks:

- **Define a methodology** with which to evaluate the platform and one which can be shared with the other partners within the BlogForever Consortium across Work Package 5 tasks.

- **Define evaluation criteria** for each case study.

- **Present the target to capture the users' evaluation** via a questionnaire-type format to record both the measured numbers of the evaluation, rather than subjective opinion, and also anecdote and sentiment. The combination of fact based evidence and also insight into users emotional connection with the platform.

Work Package 5 (WP5) will evaluate the two components that are at the heart of the BlogForever platform:

- **The crawler software**: also called the "weblog spider component", which will be responsible for weblog data extraction, manipulation and transfer to the digital repository. The evaluation must determine how well the spider harvests blogs.

- **The digital repository web application component**: this will include the public delivery platform, through which renditions of harvested blogs can be viewed; and evaluation of the functionality of the repository.

This report also details the logic behind the choice of testing methods and a phased set of case studies to allow for ongoing system development and improvements in parallel to the case studies and backed by solid evidence from these case studies. Throughout evaluation work will be ongoing as the platform is getting developed. The case study programme will occur in two phases:

- **Phase one:** starts in June 2012 and ends in December 2012. Case studies I-IV will be undertaken during this phase.

- **Phase two:** starts in September 2012 and ends in March 2013. Case studies V-VI will be undertaken during this phase.

Key Points

- The testing framework will follow the principles of agile testing and thus be an integral part of the development process. *See* *The Case Studies*

- The case study framework used to evaluate the BlogForever platform will combine the best of traditional software testing but will also looking beyond these at more qualitative research aspects to allow each case study to focus on certain key research questions that WP5 intends to answer. *See* *Evaluation Role of the Case Studies*

- A universal template will be applied to each case study to provide consistency across a wide range of different cases study types. See *Data Collection Plan*

- The test cases will be phased to allow for additional software releases to become available and to provide an opportunity to feed information from the initial cases studies back into the development cycle. *See The Schedule*

- Not all the requirements will be met by the feature set delivered for test cases studies, but this work will be covered off in Task 5.2. *See Target of Evaluation*

- A set of conclusions is available to provide the reader with a understanding of D5.1 outcomes. *See Conclusions*

1 Introduction

1.1 Background

The BlogForever project will create a software platform capable of aggregating, preserving, managing and disseminating weblogs (blogs). WP5 will evaluate the effectiveness of this platform. The entire BlogForever system comprises two discrete elements:

(1) **The spider**: The BlogForever project aims to develop a weblog spider to capture weblogs, blog posts and additional blog content items to be indexed, analysed and preserved by the repository. This weblog spider is expected to crawl and capture a defined set of blogs, as well as identify and capture new blogs submitted by the repository users.

(2) **The repository**: The project aims to develop and implement a digital repository web application, which will index, store, manage, preserve and disseminate large volumes of information from weblogs.

The details of Task 5.1 framework are explained in this report. Related to the work of this task are these project documents delivered so far:

- *D2.4 Weblog Spider Prototype and Associated Methodology Report* [4], which evaluates available weblog data extraction methodologies and technologies. Additionally, D2.4 presents a number of weblog data extraction tools implemented to test the techniques already mentioned, and evaluate alternative ways to implement the BlogForever weblog spider in WP4.

- *D4.1 User Requirements and Platform Specifications Report* [1] , which specifies requirements for the BlogForever archive and preservation system. Therefore, requirements descriptions are assembled from several sources, such as the Description of Work (DoW) [8] and previous deliverables. Additionally, 26 semi-structured interviews have been conducted to identify additional requirements as well as to validate the requirements already described. D4.1 report illustrates the methods of interview conduction and qualitative analysis. It includes a description of relevant stakeholders and requirement categories. The identified requirements are specified in a standardised template and modelled using the unified modelling language (UML). Thus, they can be easily explored and utilised by developers. Overall, the user requirements are the foundation for the design phase, because they represent the perspective of user demand.

WP5 will overview the testing process of the BlogForever system, through the final weblog spider component and the digital repository system.

1.2 Main Goals of WP5

BLOGFOREVER aims to design and implement specific case studies in order to apply and test the created infrastructure on extensive and diverse sets of weblogs. The case studies will be both generic (collecting weblogs from a wide array of topics) and domain specific (for example a case study in University bloggers community). Thus the case studies will provide the required breadth and depth to validate the developed tools, and guarantee that the project's results could be successfully and widely replicated after the project ends. The impact of the digital repository will be also evaluated by monitoring system usage and gathering user feedback.

This report is the first step in the planned evaluation of the BlogForever platform. The immediate plan is to explain the design on how best to test the BlogForever platform specifications, its user requirements and corresponding features as detailed in D4.1 [1] deliverable and further WP4 development.

The longer-term objective is to validate the entire system, through a combination of test cases and stress-testing the BlogForever platform. Third parties, including bloggers and other stakeholders, will ultimately contribute to the process; and the work package will gather and analyse feedback from these users.

The work is planned as a **programme of continual improvement**. It will occur in two planned phases, at the same time as parts of the software are developed and implemented. This report's primary function is to explain what the project intends to achieve when the actual testing starts in June 2012.

Implementation of the case studies will take place in two rounds. The first round will subject the spider and repository prototypes to testing separately according to the specified case studies of Task 5.1. The results of these tests will provide an initial evaluation on the developed components. Any shortcomings identified during this process are to be addressed by new alterations made to the spider and repository modules. After modifying the prototypes, the entire system will be set up at **AUTH Data Centre** and the integrated BlogForever platform will then be subject to the second round of testing. For the rest of the project's duration the specified case studies will be repeated, for longer periods of time, and on larger user groups. The test corpus of target blogs will also increase in size and complexity.

For instance it is possible to project that in June 2012, the system will have X functionality; in September it will have X+Y functionality; in December X+Y+Z functionality, etc. Towards the end of the project, it is anticipated that **all** system specifications (as stated in the D4.1 [1]) should be fully implemented.

The main objectives of WP5 are as follows:

1.**Task 5.1** (T5.1) - Design of 6 specific case studies:

Designing a quantitative software testing approach in conjunction with qualitative criteria to evaluate whether the BlogForever platform represents a flexible and sustainable system with long-term impact (in consideration of advantages and limitations of the platform).

2.**Task 5.2** (T5.2) - Implementation of the case studies

The implementation of the case studies should proceed in two phases:

1. Phase One: June 2012- December 2012 (Case studies I-IV)
2. Phase Two: September 2012 – March 2013 (Case studies V & VI)

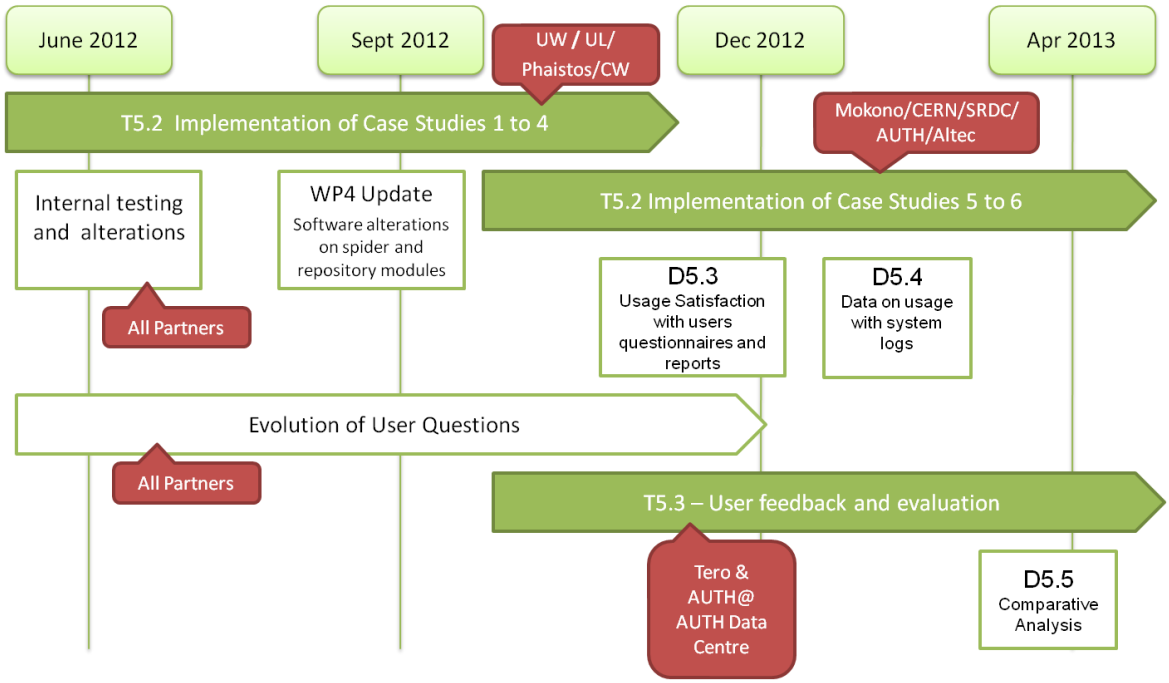
During these periods of testing and research, manual and automated collection of data from adapted questionnaires for computer system usability and users interface satisfaction will be available; direct observation and interviews of users will be performed and log files data will be compiled.

3. **Task 5.3** (T5.3) - Evaluation of the case studies through user feedback

WP5 will provide a comparative analysis and conclusions during this validation process of the system from the users' point of view in conjunction with the outcomes from T5.2.

In the following figure, a summary of the way T5.2 and T5.3 interact and the way WP5 timeline progresses with the collaboration of different BlogForever partners.

Figure 1 - Timeline and Interactions T5.2 & T5.3



1.3 Objectives of the Report

The main tasks of Deliverable 5.1 (D5.1) are to:

(a) Define an ordered methodology for software and system evaluation which can be shared with the other partners within the BlogForever Consortium.
(b) Define sets of specified evaluation criteria for each case study. This first set of criteria is derived from the user requirements as set forth in D4.1 [1] . It is expected that each case study partner will plan the way in which they intend to tackle their specific requirements testing.
(c) Express the users' evaluation criteria within a questionnaire-type format that will help record the evaluation, and gather feedback.

In addition D5.1 will:

(a) Propose a timetabled schedule of works for the evaluation programme, with clearly identified phases. At each point of the development, the project will have a prototype or a current version of the system available, which could be used for testing and running a use case.
(b) Indicate mission-critical dependencies on other partners and deliverables, with clear expectations of what needs to be delivered at which phase.
(c) Distribute the evaluation workload by assigning specific tasks to partners.

1.4 The Case Studies

This report is also a specification of the case studies that are required to evaluate the BlogForever system. The six case studies have been pre-planned in the DoW [8] with the intention of representing as large as possible a cross-section of bloggers and other stakeholders. A summary of the case studies is in this table:

Table 1 - Case Studies Summary Details

ID	Nature	Blog Count	Domain & Content	Work Period	Leader
I	Small & simple	58	Higher & Further Education UK	Jun 2012 - Nov 2012	UL
II	Small & simple	70	Higher & Further Education UK	Jun 2012 - Nov 2012	UW
III	Small & complex	356	Multilingual focused	Jun 2012 - Dec 2012	CW
IV	Small & complex	1,000	Multimedia focused	Jun 2012 - Dec 2012	Phaistos
V	Large & complex	2,000	Wide range of topics	Sep 2012 – Feb 2013	Populis
VI	Large & complex	500,000	Wide range of topics	Dec 2012 – Mar 2013	Populis

Overall, the case studies are intended to test the BlogForever platform extensively; generate feedback from users; and minimise system problems. The reason behind this extensive software testing is to follow any activities aimed at evaluating a particular attribute or capability of the BlogForever platform, and determining that its functionality is sufficient for user requirements, that it meets its required results, and it is judged to be fit for purpose. The purpose of this testing is quality assurance, verification and validation. We take the view that software testing is more than just debugging. As Hetzel [5] explains, with software testing *we can test related factors to make quality visible.*

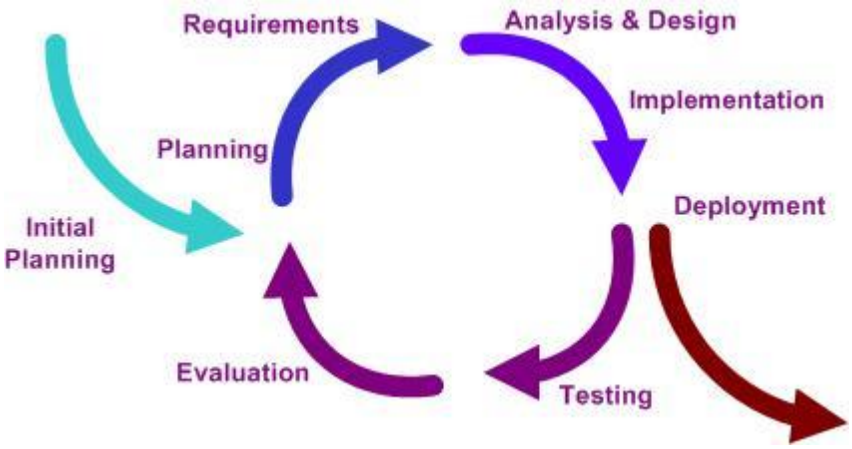
Consequently, the software development within WP4 aims to be incremental, iterative and agile. The testing that will be performed within WP5 should follow some of the principles of **agile testing**. This type of testing involves the participation of all members of a cross-functional team [14]. Agile development recognizes that testing is not a separate phase, but an integral part of software development, along with coding [6] . Testing and coding are done incrementally and iteratively, building up each feature to improve the overall outcome.

In Task 4.5 "Implementation of the digital repository component" and based on the DoW [8] requirements for this task, the following development process should occur:

*The implementation of the weblog digital repository will follow an organic growth development model. The planned modifications to the source code will be implemented through **iterations**. During these **iterations**, a new modification or add-on will be implemented, tested and documented each time.*

Hence the software testing due to be applied within WP5 should follow agile, incremental and iterative development cycles. Testing should begin in the requirements phase of the software development life cycle. During the design phase, testers work with developers in determining what aspects of a design are testable and with what parameters those tests work. See **Figure 2** for details of the iterative software development phases and the corresponding testing and evaluation actions:

Figure 2 - Iterative Development Cycle Representation (from [9])



The iterations represented in **Figure 2** are planned by selecting requirements and their corresponding features that are important to the WP4 development processes. The case studies work is divided by the importance and availability of those features. Hence the synchronisation between WP5 and WP4 is fundamental. Both software developers and testers need to work closely together from the same use cases that define the platform users needs [6] . WP5 will aim to test a particular feature when it is ready, then the complete BlogForever platform testing is implemented within Phase Two. The benefits are that features are validated early; the workload is more manageable and the issue tracking systems volumes are more under control.

Overall WP5 iterative testing processes aim to test the scalability and speed of the system, how well it works when processing large amounts of blog content, its efficiency, and impact to the potential BlogForever users.

1.5 Target of Evaluation

The BlogForever platform is the target of our evaluation, but this system is not a single component. For the purposes of WP5, the parts of the BlogForever system to be evaluated are:

(a) **The crawler software**: also called the "weblog spider component", under development by CyberWatcher at time of writing. This spider will be responsible for weblog data extraction, manipulation and transfer to the digital repository. The evaluation must determine how well the spider is able to harvest blogs.

(b) **The digital repository web application component**: this will include the public delivery platform, through which renditions of harvested blogs can be viewed; and evaluation of the functionality of the repository - more precisely, those specific parts of the functionality already defined in 4.1 [1] for the repository in conjunction with the spider.

Additionally, the following elements are considered to be general attributes and characteristics which the completed BlogForever platform will aim to offer. They are:

- ✓ Digital preservation
- ✓ Data migration
- ✓ Quality assurance checking
- ✓ Collection curation
- ✓ Additional national laws restrictions

These elements will also be evaluated by WP5. It is recognised that elements may have certain *dependencies* on other features that the repository already has, or will develop later. Evaluation of these elements will likewise be phased in a managed fashion as these features are successfully implemented.

Digital preservation will depend on features such as:

- Repository support for file formats found in blogs
- The support of METS and PREMIS metadata schema
- The ability of the repository to migrate file formats, or perform encapsulation of blogs, or emulate blog functionality
- The ability of the repository to run standard ingest procedures automatically (e.g. file format verification, checksums, virus scanning)
- The overall capability to identify and maintain significant properties of blogs over time, and automate this process as far as possible
- Repository databases for managing and storing content and metadata

Data migration refers to one particular aspect of "future-proofing" of the collection. It should be possible to export all the data from the archive to avoid a lock-in effect to the archive software. If an aspect of the BlogForever software ceases to function, the data can be exported and continue to work in another system. The dependencies here include:

- Format support in the repository, e.g. the ability to export data as XML or CSV
- Metadata management, including metadata for blogs, conformance with the OAI-PMH protocol and the Dublin Core schema

Quality assurance checking refers to the integrity of the data and to the quality of the blog content when used by researchers and scholars. As such it depends on features such as:

- The repository supplying tools for data quality and integrity checking of the data itself
- Well-maintained user profiles; ranking; tagging; and other metadata created by active users of the service. This will enable them to find *good quality relevant posts*.
- The ability to detect and remove duplicates
- The ability to detect and remove spam content
- Features that define important content and can filter out unimportant content
- The ability to define permanent URIs and metadata for purposes of referencing and citation

Curators, be the libraries or other memory institutions seeking to build and manage collections of blogs, will need privileged access to the system and the ability to perform certain actions. The dependencies of **collection curation** are:

- BlogForever's ability to search and retrieve records
- A functioning mechanism to sort them into meaningful collections
- The ability to add, remove or edit metadata
- A useable, reliable and secure front-end provided to curators for this purpose

The requirement for the observation of **additional national laws** reflects a very specific requirement. BlogForever will not produce software with a blanket assurance that its use will not break the copyright law of the country in which it is deployed. The project intends to give the administrators the possibility of configuring the platform so that users can restrict access to the content, either the whole archive or part of it. It then becomes the responsibility of those who install the software to respect the law. The dependency here is:

- The BlogForever platform can be configured so that it respects additional laws of organisations in the country in which the archive is running

T5.2 thus faces the job of mapping further the generic requirements of D4.1 [1] to specific BlogForever features. The current WP4 mapping document is a "living" "working" document subject to changes according to the WP4 developers' planning of iterative implementation. This has been agreed as a method that makes it easier in the future to justify features and corresponding requirements changes as they are needed within T5.2.

Table 2 - Example of initial details for T5.2 further mapping of T4.1 generic requirements

Features	UNDEFINED
Requirements	**DR21 - Long term digital preservation**
Interpretation	*Long term digital preservation of the archived content, validation of files, checksums, functional preservation, identifying, safeguarding and preserving archival records and ensuring that these are accessible and understandable.* *Sophisticated electronic records management systems will therefore include not only functions necessary for document management, but also features supporting these longer-term perspectives. These include: the association of contextual and structural data within a document; the construction and management of audit trails; document version control; support for disposition scheduling; and scheduling; and maintenance of the relationships between records in files, file series, and the corporate filing plan.* DR21 is regarded as a generic requirement that cannot be directly mapped to specific features. This generic requirement on long term digital preservation will have to be re-analyzed and broken down to map against specific features, as part of T5.2. One possible deliverable which may assist is Deliverable 3.1.C *Examination of OAIS compliance*, submitted by UL within WP3 subtasks in March 2012. This document describes a repository workflow for digital preservation and has identified 17 potential features of this workflow.
Early tests	CERN's proposal is to create specific features which will map to this generic requirement for digital preservation. There will be no need to create new entries in the features list for things that are already covered in other features. The plan is to map the DR21 requirement to every existing feature that satisfies part of the requirement, and then continue to add new features for the missing elements. It is worth noting that some of the features of digital preservation are related to a service and not to a piece of software (like those to do with hardware, for example).
Later tests	

1.6 The Schedule

The design of manual and automated collection of internal and external data with questionnaires; direct observations; interviews and log files forms the core elements of WP5 evaluation programme. This evaluation process is planned in **two** distinct phases:

1. **Phase one:** starts in June 2012 and ends in December 2012. Case studies I-IV will be undertaken during this phase.

2. **Phase two:** starts in September 2012 and ends in March 2013. Case studies V-VI will be undertaken during this phase.

Proposed timetables for planning, data collection, data analysis and reporting:

Case Study I Time Schedule – 1st Phase of Development
Preparation/Planning/Design Phase: June 2012
Conducting the data collection: July – August 2012
Data Analysis: September – October 2012
Reporting: November 2012

Case Study II Time Schedule - 1st Phase of Development
Preparation/Planning/Design Phase: June 2012
Conducting the data collection: July – August 2012
Data Analysis: September - October 2012
Reporting: November 2012

Case Study III Time Schedule - 1st Phase of Development
Preparation/Planning/Design Phase: June - July 2012
Conducting the data collection: September – November 2012
Data Analysis & Reporting: December 2012

Case Study IV Time Schedule - 1st Phase of Development
Preparation/Planning/Design Phase: June - July 2012
Conducting the data collection: September – November 2012
Data Analysis & Reporting: December 2012

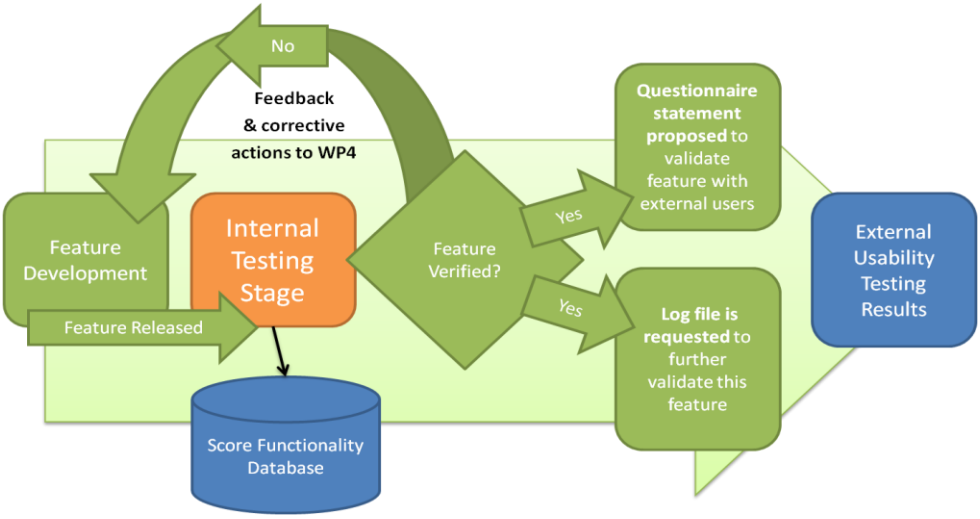
Case Study V Time Schedule – 2nd Phase of Development
Preparation/design phase: September – October 2012
Conducting the data collection: October - December 2012
Data Analysis: January 2013
Report: February 2013

Case Study VI Time Schedule – 2nd Phase of Development
Preparation/design phase: December 2012
Conducting the data collection: February 2013
Data Analysis & Report: March 2013

As mentioned in section 1.4 **The Case Studies**, the iterative development process for implementing the BlogForever platform will determine the overall trajectory of WP5 plan; and that the evaluation will become more complex towards the end of the programme, involving increasingly larger numbers of blogs, more stakeholders, more content, and more functionality. The case studies testing will help to develop the system through repeated cycles and in smaller portions at a time, allowing WP4 software developers to take advantage of what was learned during the testing of earlier parts or versions of the BlogForever system. Learning comes from both the development and use of the

system, where possible key steps in the process start with a simple implementation of a subset of the software features and iteratively enhance the evolving versions until the full system is implemented and tested. At each iteration, design modifications are made and new functional capabilities are added to the BlogForever platform.

Figure 3 - Feature Testing Illustration



For example, assume that case study 1 will be implemented from June 2012. At that point, the partners working in WP4 will have produced a BlogForever platform with the following limited set of features:

- Can retrieve an archived blog
- Platform can aggregate new content when a blog is updated
- Users can browse an archive of blogs by post title
- Undefined set of other features

Accordingly case study 1 must include evaluation of the following:

- June 2012 iteration of BlogForever platform can be installed in a server
- Systems can be configured to monitor 58 university weblogs
- Features (browse by post title, etc.) can be tested
- Report on the above

1.7 Dependencies

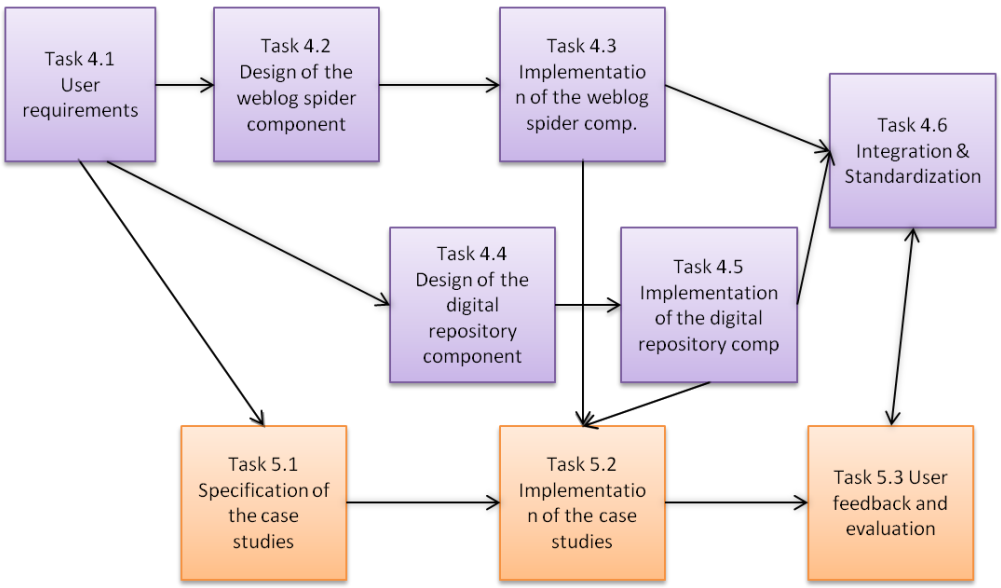
Project partners UW, UL, Populis, Phaistos and CyberWatcher have all assisted with the development of T5.1. Their continued support in evaluating their own case studies is anticipated for T5.2. CERN will run the BlogForever test repository for all the case studies, where features can be evaluated within T5.2 and T5.3. As mentioned in section 1.5 **Target of Evaluation**, there are a number of generic requirements from T4.1 that will need to be mapped to the new platform features. This work will be completed by CERN as part of T5.2 specification of what features due

to be tested per case study are linked to a generic D4.1 [1] requirement, grouping all the relevant features within the same thematic group.

T5.2 and T5.3 also depend on completion of the following WP4 tasks:

- **4.2**: Weblog Spider Component Design [15][17**]** – Ready for July 2012
- **4.3**: Initial Weblog Spider Prototype – Ready for October 2012
- **4.4**: Digital Repository Component Design – Ready for December 2012
- **4.5**: Repository Initial Prototype – Ready for February 2013
- **4.6**, **4.7** and **4.8**: BlogForever Platform Delivery (Integration and Standardization) – Ready from April, May and August 2013 respectively.

Figure 4 - WP4 and WP5 Interconnections



2 Case Study Framework

2.1 Rationale for the Case Studies

Six different case studies have been pre-defined in the DoW [8] document. Each case study comprises selections of a large test corpus of blogs. The selection has been made with the intention of representing the following properties:

- *Extensiveness* - large **numbers** of blogs will be tested
- *Diversity* - many **stakeholders and users** will be represented
- *Genericness* - collections of blogs from a **wide array of topics**
- *Domain specific* - blogs from particular **professional domains**

The selection strategy thus provides the necessary breadth and depth to the test corpus to guarantee successful evaluation of the system. The datasets for each case study are selected to represent increasing complexity of content at each stage.

The six case studies are defined as follows:

I-II: Two small domain-specific weblog groups selected from the UK Higher and Further Education domain. **Test corpus I and II** have been selected because they have the following characteristics:

- Demonstrates good use of posting and commenting
- Both groups have closely related content (academic in nature)

With this test corpus we intend to evaluate:

- The success of content aggregation and archiving from the software prototype; this should be facilitated by the limited number of blog platforms in scope of the corpus
- Success of the information retrieval functions, across a relatively limited range of content

III-IV-V: Three generic weblog groups.

Test corpus III will be a multilingual case study, across 356 weblogs in four different languages. **Test corpus IV** will contain a range of multimedia content (images, audio, video).

With test corpuses III-IV we intend to evaluate:

- Success of the information retrieval algorithms, using more diverse content and topics
- Scalability of the system, since the size of the samples will be much larger than I-II.
- How the system copes with content in different languages
- How the system copes with capturing multi-media content.

Test corpus V is not a defined group, other than the fact that it will be large and diverse, with over 2000 blogs in scope. With this test corpus we intend to evaluate:

- The success of the fully-implemented BlogForever platform
- The need for any final adjustments and bug fixes
- Progress made within the evaluation programme, through comparison with the previous case studies

VI: Final case study.

Test corpus VI will involve a wide group of 500.000 multilingual weblogs with diverse content and various content types including multimedia content. With this final test corpus we intend to:

- Highlight potential border cases in scalability, data management and information retrieval
- Prove the value of the BlogForever platform, as conceptualised in the research questions that will guide the case studies

Each case study is thus a tightly-defined test corpus of blogs, whose complexity and scale is aligned with the stages in the development of the BlogForever platform. Each case study involves:

a. A specific range and/or type of blog content
b. A defined number of blogs
c. Stakeholders: blogs content retrievers; blogs content providers; platform administrators and case studies research team members
d. Specific WP4 requirements and corresponding features to be tested, aligned with the content, stakeholders and number of blogs
e. Software testing and system testing appropriate to the range of the test corpus

The blogs datasets available in T5.1 are provided by the leaders of each case study. These datasets are intending to represent diverse set of topics, media, and language. T5.2 will aim to see how the blogs datasets content complexity increases and affects the BlogForever platform implementation processes. As well as aiming to address scalability and complexity issues in relation to harvesting, updating, retrieving, navigating and browsing diverse content.

2.2 Evaluation Role of the Case Studies

In previous sections, the report only refers to the role of WP5 case studies as software testing cases. In conjunction with that approach, T5.1 introduces a further role for the six case studies. This role will set other elements outside the traditional software testing and will look further using more qualitative research aspects to investigate the overall BlogForever **impact.**

The way to achieve this, is that T5.1 adapts and follows the case study protocol that the Evidence-Based Practice Informing Computing (EPIC) project undertook to investigate the use of systematic literature reviews (SLR) in software engineering [11][12]. The main reason to use a wider protocol above the software testing process is to be able to focus each case study to certain research questions that WP5 intends to answer. The protocol or template was chosen to refine the research data collection procedures within T5.2 and T5.3. One of the benefits of choosing and adapting this protocol from the EPIC project is that it aims to identify the need for data prospectively rather than to extract the required data at the end of the case study. Another advantage of using this type of template is that when circumstances change, it is easier to understand how to adjust the case study to address those new circumstances against a formal case study plan. It uses checklists to improve the rigour of case studies [11]. The use of an internal template within WP5 is an important way of improving the rigour of case studies research and other related evaluation methods to be applied within T5.2 and T5.3.

In EPIC project's experience, the discipline of producing a protocol had great benefits with respect to ensuring that the data collection and analysis procedures were able to answer the research questions that had been set up for the study. It also provided a baseline against which a case study plan could be revised if required. In addition, the provision of a written research plan that could be formally reviewed helped to reduce the problem of completing a template in the letter but not in the spirit.

Hence, UL has created a **case study internal testing template** based on the protocol and methodology proposed by the EPIC project [11][12] and using Runeson and Höst researchers checklist [3] but adapted to the needs of the BlogForever platform case. A BlogForever case study

template has been designed to test the D4.1 [1] requirements and its features. For more details of the internal observation testing template see 2.4 Data Collection Plan in this report.

As well as the WP5 internal testing template, T5.1 considered some elements of the **IEEE 829-1998**, also known as the **829 Standard for Software Test Documentation** [16]**.**This standard specifies the form of a set of documents for use in eight defined stages of software testing, each stage potentially producing its own separate type of document. The standard specifies the format of these documents but does not stipulate whether they all must be produced, nor does it include any criteria regarding adequate content for these documents.

2.3 Research Design

The research design planned in this report uses an initial set of general research questions. The role of these research questions is to guide the WP5 research team members and keep them focused on the evidence and data needed to validate the BlogForever platform features impact (advantages and limitations).

Initially, three general research questions were drafted to start the discussion within the WP5 investigators. Those questions were as follows:

1. How **fast** the BlogForever platform works in terms of its information retrieval functions (focusing on the speed of the repository search and how this is maintain as the volume of content increases)?

2. How **intuitive** the new features for searching blogs' information are on the BlogForever repository and do the results match the users' expectations?

3. Why users will **prefer** the BlogForever archived blogs instead of referring to the original source blogs when available?

The discussion within WP5 partners led to a more organised and concrete set of research design questions. These queries will guide the data collection process in a more objective way. The following table provides details of the set of questions that will be used to collect and analyse relevant data. The questions will help to decide what data should be collected within the six case studies. We are trying to avoid the situation where the evidence gathered does not address any initial queries.

Table 3 - Summary of WP5 Research Questions

Research Question	ID	Case Study Topic
What are the particular **problems** the implementation is facing? Or are the BlogForever software implementation processes an **overall success**?	RQ1	Overview of specific D4.1 [1] features/requirements (a specific feature works as expected in D4.1 [1])
Are complex BlogForever platform search strategies **working efficiently** when high levels of content are available within the BlogForever platform?	RQ2	Successful scalability of the system
How **useful** is the BlogForever platform as a whole?	RQ3	Overall Impact: 1. Sustainability of the platform 2. Meet the users' needs

Does the use of the BlogForever repository lead to **successful** results for the different users?	RQ4	Overall success (searched content is found fast and in an organised manner)
How **user friendly** are the BlogForever platform functions for the different designated blog communities?	RQ5	Usage satisfaction. Usability. Strengths and weaknesses

The queries above tried to direct attention to some elements that should be examined within the case study process. Each case study group has been assigned certain requirements and features that need to be tested. These should be tested with a view to the main research questions.
The role of the BlogForever case study internal testing template (see 2.4 **Data Collection Plan** for further details) is to find more specific and challenging questions about the archived blogs within the BlogForever platform, its functions and the different potential users overall. Ultimately WP5 will gather relevant data that represents the logical links between the case studies specifications and the initial set of research questions.

We are using a multiple-case exploratory approach. This approach sees many cases which allow the researcher to explore the phenomena under study through the use of a replication strategy. According to this model, if all or most of the cases provide similar results, there can be substantial support for the development of a preliminary theory that describes the phenomena [17**]**. The exploratory approach provides flexibility for a problem that has not been clearly defined and this approach is good for providing insight into a given situation

One of the objectives of WP5 case studies is to develop a good body of information about the **impact** (advantages and limitations) of the new BlogForever platform infrastructure (spider and repository) and its future role of promoting its archived blog content. Hence, our overall research unit of analysis should be the BlogForever platform. The potential users of this platform might affect the design of the WP5's data collection process, either affecting the design of the platform usability evaluation questionnaires or affecting the creation process of the platform log files. These users or stakeholders cannot easily be defined depending on the blog community their represent, as often blog communities do not have clear boundaries or clear membership [18] . D4.1 [1] identified most common stakeholders of the blogosphere as blog authors, blog readers, blog providers, libraries, information systems centres, museums, universities, research institutes and businesses. WP5 will aim to look at variations of the platform design depending on the perspective of these different users or stakeholders when searching the archived blogs.

Figure 5 - Blogosphere Stakeholders Summary (from D4.1 [1])

2.4 Data Collection Plan

This section intends to define the WP5 data collection plan where qualitative and quantitative research methods are implemented at different stages of the work package. The role of the multiple case studies internal testing is well connected with the external data collection process. The overall data collection will be stored in such a manner that all persons involved can retrieve the data from the system efficiently. Although there is no formal pilot case study planned, due to time constraints, the early case studies will be of limited scope compared to the later ones and be used in the project in much the same way a pilot would. During each case study, data on usage and satisfaction will be gathered both manually and automatically. The data collected will form the core data source for the system's evaluation and evolution.

The data collection for the specified six case studies relies on the following sources of evidence:

1. **Previous BlogForever documents**:

   a. D4.1 User Requirements and Platform Specifications Report [1]
   b. D2.4 Weblog Spider Prototype and Associated Methodology Report [4]
   c. Instructions on how to use the BlogForever Spider
   d. Instructions on how to use the BlogForever Repository

2. **Internal direct observations of the BlogForever platform implementation processes**:

   The case studies researchers and software testers will carry out the **internal** assessment of the implementation process. For each case study, they will compute and formalise the assessment data for each set of developed features. For the data collection purpose, the following template has been designed:

Table 4 - Case Study Internal Testing Template

BlogForever Platform Case Study Template:

Aim to use the following template to specify details of the implementation of different software features and details of the case study research objectives for the blog group selected.

1. Reasons for selection of the source blog group:
(Description of the source blogs)

2. Objective of the case study:
(Case study topic, what is the overall research objective)

3. Executive Summary of case study:
(Sources: section 4.b and section 6 of this template)

4. Integration and set up:

a. **Description of set up and integration of BF platform**:

b. **Summary of outcome of integration:**

5. Research Question ID (i.e RQ1.1): Title of Research Question

Description of the research question	(If necessary define any sub-research questions more specific than the original research questions presented in section 2.3 of this report - WP5

	Research Design)
Requirement original ID (From D4.1)	(From D4.1)
Feature ID (From WP4)	(From WP4)
Detail of potential stakeholders (External) **Detail of actors** (see details in use case tables in 4.1 report) **Unit of analysis**	Key players identified: bloggers (blog authors); blog providers; libraries, museums, information systems centres and archives; universities and research institutes; hosting companies and blog readers (journalists and businesses companies). Blog database; blog properties; spider elements; repository elements...
Pre-requisites to enable feature/requirement	Installations (BlogForever platform current setup); configurations; monitoring systems…
Expected Outcome	Pre-testing details of what the research team member expects of the feature
Testing Details	Testing description
Was the expected outcome achieved	(Yes/ No)
Report	Describe actual outcome with specific examples
Does outcome match possible stakeholder expectations?	(Yes/ No plus reasons and/or examples)
Recommended corrective measure	(if appropriate)
Score Functionality	Expected outcome versus actual outcome: 1=Did not work as expected 2=Some areas worked as expected 3=Most areas worked as expected 4=All work as expected 5=Worked better than expected
Further analysis needed	Log file needed and/or questionnaire statement needed
Research team member name	

6. **Detailed Summary of evaluation of features:**
(Overall summary with details on how the requirement/feature is delivering as expected)

7. **Appendix of evaluation of features:**
(Screenshots & Sources)

This case study template should summarise different outcomes for each feature available through **internal** observations of the BlogForever implemented platform with the corresponding blogs sampled. This internal evaluation will as well assess the need of further **external** analysis of the platform. For specific details on how to use this template, see section **Appendix D – Example of a Completed Case Study Internal Testing Template.**

3. **External participants interviews and direct observations**:

   The external collection of data will be done with **questionnaires**, **direct observation** of users and **structured interviews**. Users participating in the evaluation will be presented with a questionnaire to answer after performing some exercises within the repository. The **BlogForever Platform/System Questionnaire** will consider the Questionnaire for User Interface Satisfaction (QUIS) [12][13] and Computer System Usability Questionnaire (CSUQ) [10]. Interviewees might be presented with a range of statements which they will respond to, using a Likert scale; but in some cases only open-ended questions will be available to gather information on how the users experiences went.

   Structured interviews and direct observations will be utilized twice during T5.3, once during the early stages and then at the end of this task. These methods will help the project evaluate the system from the users' point of view, providing valuable feedback, which cannot be conveyed only from the system logs.

   The sampling of potential users of the BlogForever repository to be interviewed was discussed within T5.1. The idea is to approach interviewees who participated in T4.1 and they will be asked to designate a possible blog user/s within their community to be interviewed as part of T5.3. Those initially selected will refer to other blog users to achieve a representative sample using a chain-referral technique. If this technique does not provide good results, the following ways of selecting potential interviewees will be applied:

   1. Sampling through blog hosts.
   2. Sampling from selected WP5 lists of blogs.
   3. Using connections with other universities (staff and students), companies and blog providers relevant staff.

   It is not a key objective of WP5 to look closely at the practicalities and tradeoffs of each of the sampling methods mentioned above but it is important to mention at this stage that chain-referral techniques are limited if they are applied only to the sample initially identified rather than to all of the blogosphere. Further assessment of the other sampling techniques [7] will be introduced in T5.2 and T5.3 if necessary.

4. **Participants observation log files**:

   The BlogForever system logs will be created to closely monitor the platform and identify problems early in the process. The relevant users' interactions with the BlogForever website will be tracked and information such as session duration, page views, visitor trending and loyalty, users' click locations and top site content will be created. The stakeholders to produce the log files will be selected from universities, companies and blog providers directly connected to the BlogForever project.

Note that the four groups of data sources listed above are interconnected. They helped to identify the data to be gathered through internal observations, external participants' interviews and log file analysis to understand the influence and role of those different users within the new BlogForever

platform. The automatic data collection will be performed continuously throughout the case studies using the BlogForever repository tracked logging facilities. Each case study should aim to create formal, presentable databases, so other researchers can review the evidence directly and not be just limited to the final WP5 reports.

2.5 Data Analysis

BlogForever researchers will analyse the relevant data using the following methods:

Web metrics analysis: the users' interactions with the BlogForever website will be tracked and information such as session duration, page views, visitor trending and loyalty, users' click locations and top site content will be analysed and assessed. Details on web metrics will be recorded and the visitors' traffic will be analyzed to and through the system's web presence. These system metrics will be tabulated to identify significant repository usage trends, creating relevant data displays and frequency tabulation outputs.

Time series analysis will be performed on the system logs on a weekly basis in order to closely monitor the application and identify scalability problems early in the process. This analysis will trace the possible patterns over time of the system logs trends.

Overall the data elements identified will address which research question/sub question/proposition is investigated and how the data elements will be combined to answer that question and draw conclusions. The analysis should take place as the case studies tasks progress and the data will be analysed using **qualitative methods** across cases and within cases. The details of what specific qualitative methods to use, will be specified within T5.2.

2.6 Plan Validity

The validity plan for WP5 results allows external readers to achieve an independent judgement regarding the merits of the analysis and it is based on the following steps:

1. **Tabulation** of all evidence presented in an objective manner.

2. **Internal validity** showing a causal relationship between outcomes and research question/sub question/proposition and the cross-case conclusions are independent and clear without any biased results due to undue attention to one or more case studies of the entire array of WP5 cases.

There are a number of advantages in using case studies for validation purposes. First, the examination of the data is most often conducted within the context of its use [2] , that is, within the situation in which the activity takes place. Second, variations in terms of intrinsic, instrumental and collective approaches to case studies allow for both quantitative and qualitative analyses of the data. Third, the detailed qualitative accounts often produced in case studies not only help to explore or describe the data in real-life environment, but also help to explain the complexities of real life situations which may not be captured through experimental or survey research.

On the contrary, Yin [2] discusses three types of arguments against case study validation outcomes. First, case studies are often accused of lack of rigour. Yin [2] notes that "too many times, the case study investigator has been sloppy, and has allowed equivocal evidence or biased views to influence the direction". Second, case studies provide very little basis for scientific generalisation since they use a small number of subjects, some conducted with only one subject. The question commonly

raised is “How can you generalise from a single case?” [2] . Third, case studies are often labelled as being too long, difficult to conduct and producing a massive amount of documentation. The danger comes when the data are not managed and organised systematically. BlogForever will avoid this risk through systematic and organised approach to the data gathering and analysis.

3 Case Studies

3.1 Case Study I

Phase	Phase 1
Dates when scheduled	June - November 2012
Partner lead	University of London (UL)
Size of test corpus	58 blogs
Summary of functions to be evaluated	Success of content aggregation Success of archiving Information retrieval

Objective of the case study

Case study I, led by the University of London, will take place during the first phase of development. The test corpus for this case study has as main objective to determine the success of the software implementation process for the **information retrieval functions**. For this purpose we will study at least 58 academic blogs under the crawler system designed for the BlogForever project. These blogs are hosted on the Wordpress and Blogspot platforms; in addition, we have identified a number of blogs created in the jiscinvolve.ac.uk domain, which also use Wordpress. The fact that the blogs are hosted on different platforms enables the testing of the **content aggregation and archiving functions**.

Reasons for selection of the source blog group

The BlogForever DoW [8] described the selection of the blog sample for this case study as 58 academic blogs divided into two small domain-specific blog groups with good use of posting and commenting within diverse themes of academic projects blogs. The selection of this specific blog URLs is made based on technical and content relevance. The content has to be closely related, facilitating the testing of the information retrieval functions. This case study will be conducted during the first phase of the development connected to a specific set of requirements features; see section **Appendix A – 4.1 User Requirements and Platform Specifications** for further details. The partner leading this case study is not expected to participate in the development of the BlogForever software.

The blog URLs for this case study available at **Appendix D – University of London Blog Data – Case Study I** have been selected from a larger collection of project websites, all of them funded by the Joint Information Systems Committee (JISC). UL is contracted to make copies of all Higher Education project websites which were paid for by the JISC, or in which the JISC have an interest. It so happens that a large number of these project websites were produced using blog platforms, either as stand-alone sites or produced in tandem with the "main" project website. The status of our selection is not "blogs owned by the University of London", rather they are blogs selected for preservation by University of London Computer Centre (ULCC), acting for the JISC. These blogs do not represent the work of paid researchers, and not every funded project qualifies as "research", but they are entirely produced by academic and University staff, working within the UK Higher and Further Education domain. As such, they are strong examples rich with posting, commenting, and linked content and fit the profile for Case Study I.

Letter of consent

UL has created a generic letter of consent which will be used to contact the blog owners in scope for Case Study I. The letter is based on that used by UL when archiving project websites which were funded by the JISC; the letter was sent to each project manager with a view to seeking their consent to have their content copied and "republished" as part of the UK Web Archive. Since many of these project managers also worked on blogs, they have been selected for inclusion in Case Study

I and it is hoped that our UK Web Archive work will have prepared the ground for BlogForever. For a copy of the letter of consent, see **Appendix C - Letter for Inclusion in Case Studies**; it's possible that Case Study II may also find it useful.

Case study I - internal/external testing and data collection

The case study should examine at least several repository features and spider features. In each case we will be testing *prototypes* of the repository and the spider, as they are developed. In line with the "continuous improvement" scenario, we assume that the case studies will perform more detailed testing as the prototypes develop and improve. At the moment, this is simply expressed as the anticipation of "early tests" and "later tests". More detail on outcomes, and some attempt at better timetabling, will be implemented in T5.2.

Repository Features

Repository Feature	**RF4 - Create the adequate bibformat output templates to display blogs and blog posts differently**
Requirements	DR11 – Differentiate between blog and blog post
Interpretation	Rendering at the user interface.
Early tests	Treat this as an access feature. Presumably the database is able to distinguish between these entities, but early testing will simply verify that the *output templates* present this data in a meaningful way.
Later tests	Ensure the repository database is able to distinguish data in this way.

Repository Feature	**RF5 - The web interface provides harmonized access to all the content and services offered by the platform and ensures compatibility with major browsers**
Requirements	UI1 – Web Interface FR37 - Web portal FR43 - Access to content in a harmonized way
Interpretation	Rendering and behaviours at the user interface, with the emphasis on different browser behaviours.
Early tests	Confirm that web interface is present and accessible. The full range of *services* will include preservation, migration, QA checking, collection curation, public access APIs, personalised services, data mining, and information retrieval. At this stage we're not yet testing whether the services actually work, but simply whether the web interface is capable of accessing them. *Harmonized access*. The expectation is that the user interface will flatten out any differences in original blogs, and that they are all presented in the same uniform manner, with identical navigation features. This stage of testing will experiment with different browsers to ensure consistent results.
Later tests	Ensure that the web portal integrates with the services and is able to deliver their functions.

Repository Feature	**RF6 - The default interface displays the latest posts added to the archive sorted by date of addition. The same should be available for the latest blog posts of a blog or for any subset of the archive's content**
Requirements	UI6 – Latest posts
Interpretation	Display and rendering at user interface, with the emphasis on sorting functions.
Early tests	
Later tests	

Repository Feature	**RF83 - The archive offers a complete range of search options to the user**
Requirements	UI15 – Search interface FR16 – Search by author
Interpretation	Searching functionality as available through the interface.
Early tests	There may be other search options needed to offer a "complete range". The full list is defined in the functional requirements as: FR13 – Keyword/metadata search FR14 – Full–text search FR16 – Search by author FR26 – Context–sensitive search by keyword FR44 - Advanced searching DR16 – Search key words CSI has only been tasked with testing the FR16 author search. The result has to be that a query for an author should return every blog, blog post, and comment that the author has created.
Later tests	Will depend on improvement of the search feature and more content to search on.

Repository Feature	**RF7 - Export data using the OAI-PMH protocol** **RF8 - Export data in the Dublin Core schema**
Requirements	IR3 – Export data using OAI–PMH protocol and Dublin Core schema
Interpretation	Database export function.
Early tests	The thinking behind this feature is that repository can generate a block of data (or metadata) that can be used by other libraries. Early testing might need to consider the following: • That the export button works • That the resulting XML is well-formed
Later tests	Later tests may want to consider: • That the export will work in another OAI-PMH compliant repository • That library users can perform the export

Repository Feature	**RF10 - Archive user passwords are stored encrypted in the database**
Requirements	SR1 – Passwords are stored encrypted

Interpretation	Database system function. This is a specific function of the repository database.
Early tests	Simple login tests
Later tests	

Repository Feature	**RF11 - The archive web interface is available in many different languages**
Requirements	FR46 - Internationalization
Interpretation	Rendering at the user interface.
Early tests	Show that the repository UI can render the necessary codes for language support (e.g. accents) and that they work in various browsers.
Later tests	Show that the repository database can support the necessary codes across lots of content.

Repository Feature	**RF13 - UTF is used as the default character encoding in the archive**
Requirements	FR51 - UTF8 the default character encoding
Interpretation	Database character encoding This is intended to achieve consistency of encoding in the archived content. It's mainly for language purposes.
Early tests	

Repository Feature	**RF12 - The archive can import and export METS**
Requirements	DR22 - METS
Interpretation	Database import and export functions. METS may be needed for preservation purposes, and it will also support descriptive metadata schemas. The actual repository feature is not about the complete implementation of METS, but just ensuring that the repository database can import and export METS metadata.
Early tests	• Ensure that the import and export buttons work • Ensure that the results are valid XML
Later tests	• Ensure the database functions are aligned with metadata schema, including preservation metadata

Spider Features

Spider Feature	**SF1 - The spider captures the content creation timestamp**
Requirements	DR7 – Date/Timestamp for Creation and capturing
Interpretation	Spider functionality.
Early tests	Probably need to examine harvested data to prove that the functionality is working.

Spider Feature	**SF2 - The spider retrieves and parses semi-structured information from the blogs**
Requirements	FR41 - Retrieving semi-structured information
Interpretation	Spider functionality.

	Perhaps a better word for "retrieved" might be "harvested".
Early tests	Early testing might consider the following areas: • Blog data been captured in a structured form • Data is successfully rendered in valid XML
Later tests	• The data parsing produces a result that will work with the repository database.

Further internal and external testing details and final results will be extensively provided for this case study within T5.2 and T5.3.

3.2 Case Study II

Phase	Phase 1
Dates when scheduled	June-November 2012
Partner lead	University of Warwick
Size of test corpus	70 blogs
Summary of functions to be evaluated	Success of content aggregation Success of archiving Information retrieval

Identity and objective of the case study

Case Study II, led by the University of Warwick, will be run during the first phase of development. The test corpus involves a selection of University blogs with the aim to evaluate the **content aggregation, archiving and information retrieval services** of the foreseen BlogForever platform. For this purpose, a list of 70 blogs has already been built, all of which are hosted to Warwick Blogs. The IT Services Web Team[1] of the university developed the blogging platform that supports the Warwick blogs. The aim was to "provide students and staff with an easy method of publishing a personal web site. There are many different uses for blogs at Warwick from developing an essay plan, to creating a photo gallery and recording your personal development process. Blogs have been designed as a tool that will be useful for staff in research and teaching, and have many different applications in e-learning"[2]. Furthermore the design of the platform took place after focus groups were ran in order to investigate students' views on web publishing and blogging[3].

According to http://blogs.warwick.ac.uk/, there are 8,612 registered blogs containing 167,646 entries. The oldest blog post available online was published in 2003. **Appendix E - University of Warwick Blog Data – Case Study II** contains the preliminary list of University of Warwick (UW) blogs, as already prescribed in the DoW [8]. The list was populated manually, based on the requirements described in the DoW document. More specifically, the blogs present the following characteristics:

a. They are active blogs, with several posts and comments.
b. The content of the blog posts contains various kinds of media (video, images, text). Moreover, there are several languages used, depending on the preference of the blogger.
c. Some blogs are created and maintained by more than one author.

1 http://www2.warwick.ac.uk/services/its/servicessupport/web/

2 http://www2.warwick.ac.uk/services/its/servicessupport/web/blogs/about/

3 More details about the focusgroups and their outcome can be found at http://www2.warwick.ac.uk/services/its/servicessupport/web/blogs/about/usability/focusgroup/

Reasons for selection of the source blog group

UW blogs form a family of blogs hosted under a specific domain, running the custom blogging platform called BlogBuilder. In order to keep track of the blogs' activity, a central, starting page[4] is provided to the visitors (see **Figure 6**). This starting page displays the outcome of some analysis based on the activity of the bloggers and the visitors of the UW "blogosphere". More specifically, the following features are identified:

a. An aggregation of the latest comments.
b. A list of pages aggregating posts based on categories (e.g. games, books, films etc.) or specific reviews.
c. A list of pages containing photos uploaded to posts.
d. A list of all/new/popular bloggers.
e. Navigation to the blogs - alphabetically/by department/by top tags.
f. Overall active usage statistics.

Figure 6 - University of Warwick Blogs Start Page

Authoring a blog

Every student and staff member of the University of Warwick is invited to start a blog. Authentication takes place by using the same credentials for every other IT service provided by the University. Once a user is logged in and visits his blog (see **Figure 7**), the user may choose from the following options:

a. Create a new entry. This entry may be visible either to university members, university and alumni, world visible or a private one. Alternatively, he may choose to write a review on a specific product (book, cd, dvd, game, movie, tv), after he has filled in the corresponding data (see **Figure 8**). Writing a blog entry includes filling the following fields (see **Figure 9**):
    i. Title
    ii. Related Web page
    iii. Tags/keywords
    iv. Content of the entry

    In addition to the above, the blogger may choose to schedule the publishing of his entry, send a ping to a ping server and show trackbacks.

b. Upload an image and create a gallery. Uploading an image allows bloggers to create photostories that are rendered as blog entries of specific purpose. Similarly to regular entries, the visibility of an image may be customised by the blogger. Moreover, the blogger can choose to make his image appear on the UW Blogs starts page.

[4] http://blogs.warwick.ac.uk/

c. Administer his blog. This includes a variety of options, like changing the appearance, sidebar content, managing posts and their content, editing tags, change his profile etc. (see **Figure 10**).

Figure 7 - Viewing Own Blog's Start Page

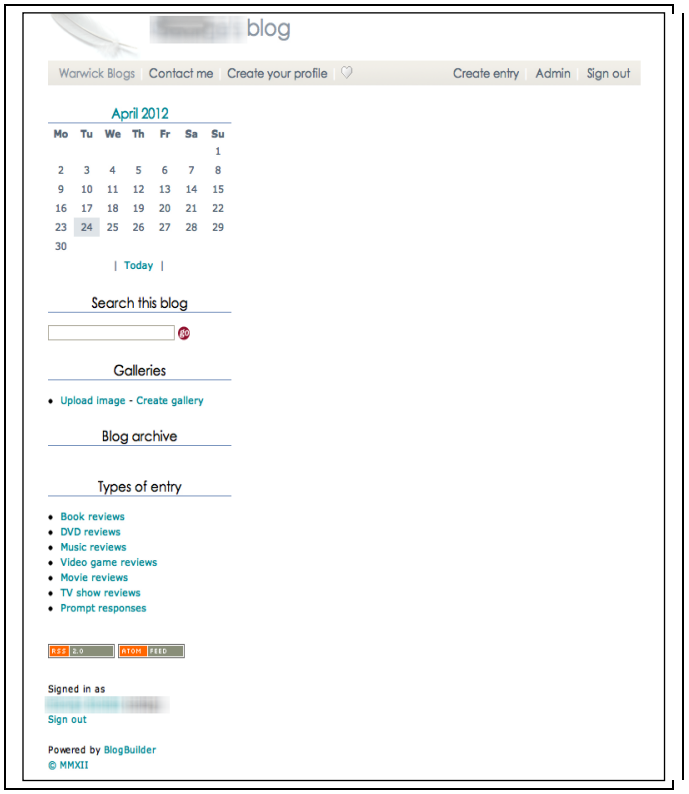


Figure 8 - Writing a blog entry about a product

Figure 9 - Writing an entry

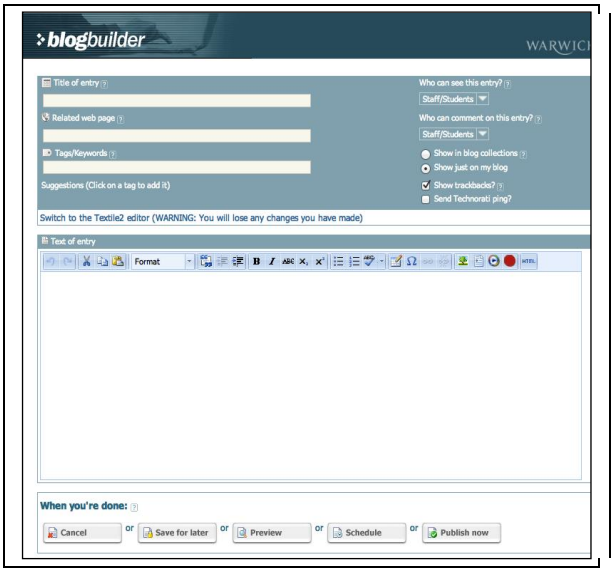


Figure 10 - Managing own blog

Archiving

In the context of BlogForever, University of Warwick has conducted an interview[5] [1] with a member of Warwick's IT Web Services. The interview reports that the current approach to preserving the blogs repository is through common, periodical, maintenance tasks like database and

5 More details about the interview may be found in D4.1

file backup. Moreover, there are no formal procedures that address the issue of creating and maintaining an archive for the Warwick blogs, as described in BlogForever.

Case study II - internal/external testing data collection

The Warwick Blogs study will examine at least 9 repository features and 2 spider features. The selection of the features was based on the collection of requirements that were initially identified as important for this case study (see **Appendix A – 4.1 User Requirements Allocated to Case Studies** for more details).

Repository Features

Repository Feature	**RF17 - The archive displays a notification/disclaimer about the originality of the content**
Requirements	DR3 – Disclaimer
Interpretation	When accessing the repository, a special section that presents the disclaimer of the blog content is provided.
Early tests	Verify that disclaimer notices found on the web blogs are identified and stored accordingly. Test whether they are displayed when accessing the repository.
Later tests	Attempt to present in a simplified way some common, standard properties of the disclaimer notice (e.g. whether the content is free to copy, confidentiality, liability issues etc.)

Repository Feature	**RF24 - Links to other sources within the blog post's and/or comments' content are extracted and displayed also separately**
Requirements	UI5 – Citation is presented prominently
Interpretation	A collection of external links is assembled and provided separately.
Early tests	Verify that the whole (and nothing but) the list of links is extracted and presented accordingly, based on examples.
Later tests	Consider grouping links according to their properties (e.g. same website, type of resource etc)

Repository Feature	**RF28 - The archive displays the content author**
Requirements	DR4 – Display the author of the blog, blog post, comment
Interpretation	The name of the author, as it appears to the blog is captured and presented
Early tests	Verify that the correct author names are discerned from other author names and presented to their corresponding fields
Later tests	Access the repository by browsing through different author names.

Repository Feature	**RF23 - The archive stores the blog post comments**
Requirements	DR13 – Comments
Interpretation	The various properties of the comments, as well as their interconnection to the post or other comments is captured and represented to the repository efficiently
Early tests	Verify that comments are stored
Later tests	Check the body of comments stored for redundancy or missing/wrong comments/comments' properties

Repository Feature	**RF25 - The archive displays the tags of a blog and/or blog post**
Requirements	UI7 – Tags for blogs and blog posts

Interpretation	Present the tags for every content type in a prominent way
Early tests	Verify that tags are displayed properly
Later tests	Navigate the repository by browsing the various tags

Repository Feature	**RF26 - The archive holds the list of blogs that it archives. That list can be edited, exported and sent to the spider**
Requirements	FR15 – Selection of blogs to archive
Interpretation	The repository must provide an interface to manage which blog to archive. This management must allow the efficient selection of large list of blogs to include or exclude. The result of this action must be propagated to the spider
Early tests	Verify that the interface allows the management prescribed. Experiment and verify various scenarios of usage, depending on different stakeholder types.
Later tests	Investigate possible performance issues, simulate network/resources outages.

Repository Feature	**RF27 - The archive displays a unique URL for each record it holds to be used for referencing. DOI can be used.**
Requirements	DR2 – URI and metadata for referencing/citing IR8 - Digital Object Identifier
Interpretation	The archive must provide a permanent, unique URL for every piece of information, preferably through human-readable URLs
Early tests	Verify that URLs are rendered in a consistent and unique way across every resource of every type of the archive
Later tests	

Repository Feature	**RF29 - The archive alerts the user when there are software updates**
Requirements	SM2 – Software updates
Interpretation	The user responsible for maintaining the software platform up to date, should be informed about new releases
Early tests	Simulate a new release and verify that this notice is propagated to a user who has installed and maintains the platform
Later tests	

Repository Feature	**RF83 - The archive offers a complete range of search options to the user**
Requirements	FR13 – Keyword/Metadata search FR14 – Full–text search FR44 - Advanced searching
Interpretation	Searching functionality as available through the interface.
Early tests	There may be other search options needed to offer a "complete range". The full list is defined in the functional requirements as: FR13 – Keyword/metadata search FR14 – Full–text search FR16 – Search by author FR26 – Context–sensitive search by keyword FR44 - Advanced searching DR16 – Search keywords
Later tests	Will depend on improvement of the search feature and more content to search on.

Spider Features

Spider Feature	**SF6 - The spider crawls and fetches the comments of blogs posts too**
Requirements	DR13 – Comments
Interpretation	The comments must be identified and captured. This includes the various attributes that include them (comment author, publication date, content of the comment etc), as well as their connection to other comments
Early tests	Verify that comments are captured for a broad collection of blogs
Later tests	Further develop the visiting frequency of the spider based on the comments captured for every blog.

Spider Feature	**SF3 - The spider captures the tags of a blog and/or blog post.**
Requirements	UI7 – Tags for blogs and blog posts
Interpretation	The tags must be identified and captured.
Early tests	Verify that tags are captured for a broad collection of blogs
Later tests	

Further internal and external testing details and final results will be extensively provided for this case study within T5.2 and T5.3.

3.3 Case Study III

Phase	Phase 1
Dates when scheduled	June - December 2012
Partner lead	CyberWatcher
Size of test corpus	356 blogs
Summary of functions to be evaluated	How spider platform copes with multilingual content How spider platform copes with different formats of blogs Information retrieval algorithms Scalability of the spider Usability of downloading and managing the spider

Objective of the case study

Led by CyberWatcher (CW), case study III is the first multilingual case study, having *356 weblogs in four different languages*. Case study III will be conducted during the first phases of the development. This case study is testing the information **retrieval algorithms** using more diverse content and topics. The size of the content is considerably larger than **Case Studies I-II** for testing the **scalability** of the system.

Reasons for selection of the source blog group

The test corpus for case study III consists of *356 various weblogs* in four different languages:

- English
- Swedish
- Norwegian
- Finnish

The 356 source blogs are defined as expert blogs covering specific topics where the author has a professional or dedicated expertise (eg. research blogs hosted by Universities and blogs of Swedish

parliament members). The list of the source blog group URLs are available at **Appendix F - CyberWatcher Blog Data – Case Study III.**

Some of the blogs are editorially structured; managed by an institution or corporation. Such blogs normally have several authors and each post is qualified by a group of editors, before posting. Some of these blogs are highly active, while others are not updated very often. For the Swedish blogs containing each parliament member, for example, some members have a blog without using it, while others update it almost daily.

The selected test corpus of "expert blogs" covers the following topics and industries:

- Pharmacy
- Fashion
- Energy
- Politics

These blogs are all characterised by CW as "expert blogs" to differ them from "private blogs". The format of expert blogs varies more than that of private blogs – as the authors have more resources to design the blog, as well as a need of giving it a more corporate and professional design. For example, some blogs have multiple columns, separate author descriptions, own designed content management platforms, and attached documents and videos. This will be utilised in this case study to test the algorithm of the spider and its ability to automatically analyse and retrieve the fulltext content and create an enriched output in the XML and METS format.

Case study III - internal/external testing and data collection

Case study III will examine at least 5 spider features in detail and other repository features like for example *IR2 – Capturing is possible for various platforms;RA2 – Correct Information in the archive; FR42 – Weblog content validation and spam filtering...* (see **Appendix A – 4.1 User Requirements Allocated to Case Studies** for more details). The initial testing will be conducted internally by CW, analysing the outcome according to each requirement and type of blogs eg platforms, languages or format.

Later tests include a user group of 4-6 persons to test the user interface for setting up and managing the spider as well as the usability of the BlogForever repository. This includes testing documentation, downloading, setting up blogs for monitoring and the ability to qualify to output. The test group will be given assignments as well as given the ability to use the platform for any purposes of their interest. Each tester will make written notes and then be interviewed by CW for a final evaluation report.

When testing user friendliness of the spider; CW will test two alternatives to access it. These two alternatives include through downloading the spider and as a cloud service as well. The cloud service will be a CW hosted online service.

Further internal and external testing details and final results will be extensively provided for this case study within T5.2 and T5.3.

Spider Features

Spider Feature	**SF1 - The spider captures the content creation timestamp**
Requirements	DR7 – Date/Timestamp for Creation and capturing
Interpretation	Spider shall detect the time stamp of creation from the RSS as well as from the URI containing the HTML of the blog post and blog comments. It shall different formats in numbers and text – and across languages.

Early tests	Benchmarking the ratio of successfully capturing the timestamps and handling different formats of the timestamp and convert it into correct METS output. A specific challenge to test can be how to handle timestamp such as "5 hours ago". It shall even handle potential differentiations in time and formats between RSS and HTML.
Later tests	Test the user feedback upon timestamp of creation across languages and formats.

Spider Feature	**SF2 - The spider retrieves and parses semi-structured information from the blogs**
Requirements	FR41 - Retrieving semi-structured information
Interpretation	Spider functionality. The spider shall use the URI to capture RSS and utilize this in retrieving correct fulltext HTML from the URI. Through parsing is shall distinguish specific elements such as: • Posts • Comments • Additional elements (multimedia, links, author) • Metatags and micro formats This shall be converted in the correct XML in agreed METS format SF 2 – also includes several Spider Features: • SF 3 - Capture tags of blogs and blog posts • SF 6 - Crawling of the comments of blogposts • SF 13 - Detection and crawling of embedded content • SF 16 - Capture necessary metadata from crawled content
Early tests	Early testing shall benchmark ratio of successfully: 1. Capturing RSS 2. Capturing fulltext HTML matching and enriching the RSS 3. Amount of additional elements and metatags 4. Define challenges not yet handled successfully
Later tests	When inserting URI into the inputter – does the users do it correctly and how do they perceive the output; even with missing blog elements

Spider Feature	**SF8 – Spam filtering**
Requirements	FR42 - Weblog content validation and spam filtering FR29 – Detect and remove spam
Interpretation	Partly spider functionality and partly repository. Spider shall primarily filter upon removing not valid URI's. In addition the spider may do secondary spam filtering of within user defined lists of blogs
Early tests	Early testing will calculate amount of spam according to designed filters. Qualification of a spam in the repository will depend upon feedback from CERN and the repository; as well as developing some test program to analyse captured content.
Later tests	The later user tests will focus upon spam filtering of content from the 356 blogs – and user feedback upon usage of the repository.

Spider Feature	**SF15 - Scalability and real time harvesting**

Requirements	CS1 - Amount of archived blogs CS2 - Amount of blog posts per day CS3 - Amount of users PR2 - Storage data concurrently PR1 - Amount of blog posts to capture CS4 - clustering and high availability architectures PR3 - Real time archiving
Interpretation	Spider platform scalability – either upon a single server approach – or based as a cloud-service
Early tests	Testing upon a single server – time to set up and capture defined content from the 356 blogs. Also testing time to monitor these blogs with a daily frequency. Time to process and analyse a single blog site – from inserting to deliver METS output and retrieving this.
Later tests	Feedback from end user upon responsiveness of the combined platform from inserting blog URIs and finding relevant content in the repository.

Spider Feature	**SF21 – Snapshots of blog versions**
Requirements	FR53 - Snapshots Versions of Blog Designs in the Archive
Interpretation	Spider functionality – capturing graphical view of each blog – potentially even single blog posts
Early tests	Testing the service that enables small pictures of the blog web sites in pdf or png. Initially one per blog source; potentially per each blogpost.
Later tests	Feedback from end user upon weather relevant thumbnails appearing.

3.4 Case Study IV

Phase	Phase 1
Dates when scheduled	June - December 2012
Partner lead	Phaistos
Size of test corpus	1000 blogs
Summary of functions to be evaluated	Information retrieval algorithms Scalability of the system How platform copes with multimedia content

Objective of the case study

Case study IV, lead by Phaistos, will involve a test corpus of *1000 various weblogs* containing **multimedia content** (images, audio, and video) hosted by http://pblogs.gr. This case study will be conducted during the first phase of the development. More specifically, case study IV is testing the **information retrieval algorithms** using more diverse content and topics. The size of the content is considerably larger than **Case Studies I-III** for testing the **scalability** of the system.

Reasons for selection of the source blog group

As mentioned above, the source blog group consists of *1000 various weblogs* containing multimedia content (images, audio, and video) hosted by http://pblogs.gr. The majority of http://pblogs.gr blogs are personal blogs and some of them are maintained by multiple authors.

The list of the source blog group URLs are available at **Appendix G: Phaistos Blog Data – Case Study IV**. This list contains blogs that were active one and a half year before January 30th of 2012. The other criteria for selection of these blogs are the following:

- Number of unique visitors
- Number of unique users who left a comment
- Number of records
- Number of comments
- Total number of hits

Case study IV - internal/external testing and data collection

Initially, the evaluation of the platform (repository, spider) will be conducted by internal testers. Afterwards, the features that require evaluation by external users will be considered further based on specific usage scenarios that will be defined in T5.2. The external evaluation will have questionnaires in order to evaluate the user satisfaction in regards to the features of the system included in this case study.

The case study will examine at least 14 repository features and 5 spider features. Case Study IV will thus address around 24 separate defined user and platform requirements (see **Appendix A – 4.1 User Requirements Allocated to Case Studies** for more details). In each case we will be testing *prototypes* of the repository and the spider, as they are developed.

Repository Features

Repository Feature	**RF59 - Export data using XML (METS, MARC, DC, etc)**
Requirements	EI2 – Data access/export as XML
Interpretation	Database export function.
Early tests	Early testing might need to consider the following: • That the export button works • That the resulting XML is well-formed
Later tests	Later tests may want to consider: • That the export will work in an external application • That external clients can perform the export

Repository Feature	**RF54 - The archive keeps all the different versions of the content in case it is edited or updated**
Requirements	OP1 - Versioning
Interpretation	Database system function.
Early tests	Verify that the "Version History" button works and all versions of a blog page are retrieved.
Later tests	Verify that a list of all versions of a blog page are displayed when the "Version History" button is clicked and that a specific version of a blog page is displayed when the user clicks on a specific old version from the above list.

Repository Feature	**RF14 - Descriptive statistics are offered for the archive's full content**
Requirements	FR5 – Descriptive statistics for a single blog or blog post DR12 – Demographics
Interpretation	Display and rendering at user interface, with emphasis on blog and blog posts statistics.
Early tests	Verify that the statistics are presented in a meaningful way.
Later tests	Verify that the users are satisfied from the statistics collected for their blog and the way they are presented.

Repository Feature	**RF57 - The archive offers a nice interface for users about (newly) archived content (based on their criteria)**
Requirements	FR22 – Summaries/Journals about new archive content UI2 – Magazine/Journal view
Interpretation	Rendering at the user interface and notification via email.
Early tests	Verify that the popular/top ranked blog posts are presented in a special way. Verify that the user receives a notification email with the new content of the blogs/topics he has subscribed.
Later tests	Verify that the users are satisfied from the notification emails and the frequency they receive them.

Repository Feature	**RF21 - The archive offers the option to login using SSO / LDAP** **RF64 - The archive offers the option to login using external (universal) credentials**
Requirements	FR55 - Universal Login & central login
Interpretation	System function.
Early tests	Central login tests using Blogforever accounts and universal login tests using accounts from third party services.
Later tests	

Repository Features	**RF57 - The archive provides a ranking method based on the user rating of content** **RF58 - A user can rank archive content based on specific users' content rating (user they trust)** **RF61 - The archive ranks blogs based on their views and downloads**
Requirements	FR27 – Ranking of blogs and blog posts FR11 – Recommendation system FR31 – Define important blogs and filter junk
Interpretation	Display and rendering at user interface, with emphasis on ranking algorithms.
Early tests	Test searching functionality with various queries in order to verify that the ranking algorithm returns relevant results.
Later tests	Test more queries, make sure the ranking criteria are known to the user and verify that the user can rank content and influence the ranking of the search results and the recommendations given to other users.

Repository Feature	**RF53 - The archive displays content license information and respects it**
Requirements	DR1 – Rights and Licenses LR1 – Copyright laws LR2 – Privacy laws LR4 – License of the content DR23 - Mashup activities
Interpretation	Display and rendering at user interface.
Early tests	Verify that when content is published under a specific license it is presented to the user.

Later tests	Verify that content from other sources is displayed with a disclaimer around copyright infringement.

Repository Feature	**RF55 - The archive provides advanced APIs for use by developers to interact with the archive's content**
Requirements	OP3 - APIs for developers
Interpretation	System functions.
Early tests	Check that the functionalities that should be included in the API are identified and documented.
Later tests	Test the API methods.

Repository & Spider Features	**SF12 - The spider crawls blogs posts and retrieves both text and comments** **RF56 - The archive stores and displays blog posts' text as well as their comments**
Requirements	FR54 - What to archive: text and comments
Interpretation	Spider functionality where the crawled content will be displayed at the user interface.
Early tests	Verify that the blog presentation includes its blog posts text and its blog posts comments.
Later tests	

Repository & Spider Features	**SF13 - The spider should detect embedded content and store the information on its location** **RF58 - The archive should either link or fetch embedded content**
Requirements	DR14 – Embedded objects
Interpretation	Spider functionality where the identified embedded objects should be displayed at the user interface.
Early tests	Verify that the embedded content is stored as links.
Later tests	Verify that the users are able to see the embedded content of a blog post.

Repository Feature	**RF60 - The archive can export all its content, DB entries and file system for a migration**
Requirements	SM3 – Data export for migration
Interpretation	Database export function.
Early tests	Early testing might need to consider the following: • That the export button works • That the resulting files contains all the necessary items
Later tests	Later tests may want to consider: • That the export will work in another repository • That administrators can perform the export

Repository & Spider Features	**SF14 - The spider detects and stores the topic or category of the blog it crawls** **RF62 - The archive stores the topic received from the spider or detects it using keywords contained in the content**
Requirements	FR34 – Topic/Subject detection

Interpretation	Spider functionality and database system function.
Early tests	Verify that each blog is related with a topic.
Later tests	Verify that the topic of a blog is presented in a meaningful way.

Repository Feature	**RF63 - The archive keeps snapshots of all the different designs of a blog**
Requirements	FR53 - Snapshot versions of blog designs in the archive
Interpretation	Database system function.
Early tests	Verify that different blog design snapshots can be found from the user interface.
Later tests	

Spider Features

Spider Feature	**SF10 - The spider provides a user interface to configure the amount of content to be crawled**
Requirements	FR2 – Capturing filter
Interpretation	Spider functionality that is configured through the administrator interface.
Early tests	Verify that the administrator interface gives the option to create a filter.
Later tests	

Spider Feature	**SF11 - The spider retrieves under which type of license content is published**
Requirements	FR6 – Processing of Licenses
Interpretation	Spider functionality.
Early tests	Verify that the spider respects the licences of the content either with excluding content from archiving or storing the licence with the archived content.
Later tests	

Further internal and external testing details and final results will be extensively provided for this case study within T5.2 and T5.3.

3.5 Case Study V

Phase	Phase 2
Dates when scheduled	September 2012 - February 2013
Partner lead	Populis (former partner name: Mokono)
Size of test corpus	2000 blogs
Summary of functions to be evaluated	Success of the fully-implemented system Need for any final adjustments and bug fixes Progress made within the evaluation programme

Objective of the case study

Case study V, led by Populis will involve a test corpus of *2000 blogs of varied content and multiple languages.* This case study will be conducted during the second phase of the development of the BlogForever platform. The main objective of this study is to **evaluate the final BlogForever platform** and provide guidance for additional, necessary adjustments. The results of this case study

will be compared to those of previous case studies of the same scale, in order to **illustrate the progress** made during the development of the platform and specify points needing **refinement**. The following case study, case study VI, will then add the issue of scalability with a larger collection of source blogs.

Reasons for selection of the source blog group

The test corpus for case study V was selected within a sample frame of blogs hosted on the Populis platform (http://www.populis.com/). The list of the source blog group URLs are available at **Appendix H: Populis Blog Data – Case Study V.** This frame can be described as weblogs that are active and cannot be classified as "spam blogs". An active blog was internally defined as a blog that has been updated with content by the author(s) within the past 12 months. A spam blog will be loosely classified in this case as blogs that "unjustifiably extract text from other sources on the Web and publish them as a post" [15]. The final test corpus of 2000 blogs for case study V was then randomly drawn from this sample frame. In the case that a randomly selected blog is later identified as a spam blog, it will be removed from the sample and another blog will be chosen randomly in it's place. The characteristics of "active" and "non-spam" have been chosen for this case study to ensure that the quality of content retrieval can be tested without interference from spam blogs that may influence ranking and prioritisation of retrieved contents. Special considerations regarding spam blogs will be handled in case study VI.

Information about the source blogs in case study V will not be as detailed as in the previous case studies. Extensive insight into the profile of authors, or the content of the individual blogs, is not available. A user can assign "n" tags to his or her blog(s) and posts, which is an optional feature. For this reason, it is difficult to determine specific thematic areas represented by the source blogs. However, the majority of the source blogs may be classified as "personal blogs", blogs that are not maintained for academic or commercial purposes. For the final report on case study V, Populis will develop a scenario to assist in describing the test corpus. For example, to determine the general thematic focus of a particular blog, we will present a list of the top 3 tags employed by the author(s) for both the blog itself and among individual posts. Bloggers can also (optionally) assign a language to their blog, which we can use to determine the language diversity among the sample. The number of posts and comments will be determined to qualify (to some degree) the level of activity and social impact of the particular blog. Finally, we will be able to provide the number of authors for each blog.

Case Study V - internal/external testing and data collection

Case Study V, as with all previous case studies, will be implemented using an installation of the latest version of the BlogForever platform available at the time the case study commences. It will then be configured to crawl and monitor the approximately 2000 source blogs that have not opted-out of the case study by means of implementing a robot.txt file on their blog. Authors will be notified of our intentions with the case study in a timely manner. Though it is within our legal rights to crawl any blog hosted by Populis (according to our Terms and Services), it is in the interest of future stakeholder communities of the BlogForever platform to exercise good manners in the process of conducting our case studies.

Initially, Populis will be internally testing the features assigned to this case study, using the template featured in section 2.6 of this document. Through internal testing, we will both verify feature functionality and translate those features intended for evaluation by external test subjects into performable task scenarios. These task scenarios will then be used to develop the final research instruments for evaluating the platform with external test subjects. Research instruments will include questionnaires, semi-structured and structured interviews. In some cases, small focus groups may be appropriate for observing user interaction with the platform.

External test subjects will be identified using the chain-referral sampling technique referenced earlier in this document, in which key parties are identified as initial test subjects, who then recruit further test subjects for the case study. The initial test subjects will be selected from all of the given stakeholder communities, content providers, content retrievers and administrators (as defined in D4.1 pages 14-19). The reason for this is to ensure that a sample test subject from each community will interact with the software platform at this large scale. External test subjects will then report on the relevant features as assigned to them in the research instrument. In particular, we will aim to include as external test subjects those individuals who took part in the survey conducted as part of the Work Package 4 to identify relevant user requirements.
Research instruments will not be 100% standardised across the case study, if possible. Rather, they should be somewhat tailored to specific stakeholder communities that are represented by the external test users.

Case study V will test at least 4 repository features that express several requirements outlined in D4.1. In addition, we will be verifying that several other more generic requirements are fulfilled within the platform as a whole (see **Appendix A – 4.1 User Requirements Allocated to Case Studies** for more details). Populis will be collecting and analysing the data for Case Study V with SRDC.

Repository Features

Repository Feature	**RF67 - The archive analyzes incoming links to blogs and ranks them by importance**
Requirements	**FR36 – Memetracking and trend detection**
Interpretation	Measurement of blog's "popularity" or level of influence over time is recorded based on incoming link analysis.
Early tests	Verify that repository generates a record of incoming links to blog over time.
Later tests	Verify that repository presents collected data of incoming links in a meaningful way for each blog.

Repository Feature	**RF68 - The archive facilitates searching by providing fuzzy indexing and stemming**
Requirements	**FR38 Multidimensional Indexing**
Interpretation	User-friendly, responsive search functionality.
Early tests	Verify that search function contains functionality for keyword stem searching, incomplete & incorrect entries, and simultaneous search by multiple criteria.
Later tests	Verify that search function for keyword stem searching, incomplete & incorrect entries, and multiple criteria are fully functional across sample repository.

Repository Feature	**RF53 - The archive displays content license information and respects it**
Requirements	**FR39 Digital Rights Management**
Interpretation	Archive complies with digital rights policies.
Early tests	Verify that licenses of content are preserved and observable in the archived content.
Later tests	Verify that the repository is compliant with license specifications. Verify that license information is available to content retrievers.

Repository Feature	**RF69 - The archive can provide services under some cost using a billing system**
Requirements	**FR40 Billing System**
Interpretation	Billing system is functional
Early tests	Verify that the billing system feature is able to handle simple transactions.
Later tests	Verify that the billing system feature is able to handle real-world scenario billing transactions.

Further internal and external testing details and final results will be extensively provided for this case study within T5.2 and T5.3.

3.6 Case Study VI

Phase	Phase 2
Dates when scheduled	December 2012 - March 2013
Partner lead	Populis (former partner name: Mokono)
Size of test corpus	500,000 blogs
Summary of functions to be evaluated	Highlight border cases Prove value of system Involve the software and platform developers with the process

Objective of the case study

Case study VI, led by Populis, will involve a *wide group of bloggers, targeting 500.000 multilingual weblogs* with **diverse content** and various content types including **multimedia content.** This case study is conducted during the second phase of the development (this phase runs until Jan 2013). Populis is the host of the blogs while **CERN**, **SRDC**, **AUTH** and **Altec** will cooperate closely, due to their involvement with the development of the software platform. The purpose of this case study will be to **highlight potential border cases in scalability, data management and information retrieval** using a very large dataset and prove the value of the BlogForever platform.

Reasons for selection of the source blog group

As mentioned previously, the purpose of Case Study VI is to identify potential outlying cases in scalability, data management and information retrieval. For this reason, it is necessary to use the largest data set possible within our legal boundaries and most efficient in terms of resources. Members of the consortium agreed that the use of Populis' entire inventory of blogs would meet both criteria. The test corpus for Case Study VI will therefore include all of Populis' approximately 360,000 hosted blogs, which have not expressly chosen to opt-out of the case study. In addition, Populis has achieved the cooperation of LiveJournal (http://www.livejournal.com/) to crawl their blog inventory for the purposes of Case Study VI. Blogs for Case Study VI will therefore include active and inactive blogs, as well as many spam blogs. The inclusion of spam blogs will be beneficial in testing the limits of certain features of the repository, such as memetracking, trend detection and ranking, as well as some of the more "curatorial" features of the BlogForever user interface.

Information about the source blogs in Case Study VI, as with Case Study V, will not be as detailed as in the first four case studies. As with Case Study V, extensive insight into the profile of authors, or the content of the individual blogs, is not available. The same scenario presented in Case Study V will be used in Case Study VI to determine the top 3 tags assigned to the blog and individual posts, blog language, number of posts and comments, and number of authors for each blog. As this Case Study includes approximately 500,000 blogs, this information is time consuming to collect and at the time of writing, not available. Our forecasted plan of implementation is to import the raw data into a local mysql instance (via phpmyadmin or something similar) and then to run our queries via SQL. In consideration of the large data set, an appendix with the list of blogs to be harvested for case study VI is not included in this document at this time.

Integration and set up

Case Study VI, as with all previous case studies, will be implemented using an installation of the latest version of the BlogForever platform available at the time the case study commences. It will then be configured to crawl and monitor the approximately 2000 source blogs that have not opted-out of the case study by means of implementing a robot.txt file on their blog. Authors will be notified of our intentions with the case study in a timely manner. Though it is within our legal rights to crawl any blog hosted by Populis (according to our Terms and Services), it is in the interest of future stakeholder communities of the BlogForever platform to exercise good manners in the process of conducting our case studies.

Initially, Populis will be internally testing the features assigned to this case study, using the template featured in section 2.4 **Data Collection Plan** of this document. Through internal testing, we will both verify feature functionality and translate those features intended for evaluation by external test subjects into performable task scenarios. These task scenarios will then be used to develop the final research instruments for evaluating the platform with external test subjects. Research instruments will include questionnaires, semi-structured and structured interviews. In some cases, small focus groups may be appropriate for observing user interaction with the platform.

External test subjects will be identified using the chain-referral sampling technique referenced earlier in this document, in which key parties are identified as initial test subjects, who then recruit further test subjects for the case study. The initial test subjects will be selected from all of the given stakeholder communities, content providers, content retrievers and administrators (as defined in D4.1 pages 14-19). The reason for this is to ensure that a sample test subject from each community will interact with the software platform at this large scale. External test subjects will then report on the relevant features as assigned to them in the research instrument. In particular, we will aim to include as external test subjects those individuals who took part in the survey conducted as part of the Work Package 4 to identify relevant user requirements.
Research instruments will not be 100% standardised across the case study, if possible. Rather, they should be somewhat tailored to specific stakeholder communities that are represented by the external test users.

Case study VI will test at least 4 repository features that express several requirements outlined in D4.1 (see **Appendix A – 4.1 User Requirements Allocated to Case Studies** for more details). Populis will be collecting and analysing the data for Case Study VI with consortium members CERN, SRDC, AUTH and Altec.

Repository Features

Repository Feature	**RF78 - The archive can handle a very large number of content and users**
Requirements	**CS1 Amount of Archived Blogs** **CS3 Amount of Users** **PR2- Storage Data Concurrently**

	PR1 Amount of Blog Posts to Capture
Interpretation	The system should function as successfully as established in previous case studies when pushed to high volumes of users, records and data storage activity. The system should be able to handle real-time data storage alongside normal use of the system. The spider should be able to capture a large volume of blogs per day.
Early tests	Test that the amount of time taken for the spider to crawl the case study sample blogs falls within expected parameters. Test that the time taken for the repository to ingest the results of the crawl falls within expected parameters. Users should report that the system is functional and has no lag or down-time when there is a very large volume of data in the repository and multiple users in the system. In consideration of PR2, real time capturing can produce a lot of data in peak times. Therefore, it should be possible to store data concurrently in the archive.
Later tests	Verify that real-time capturing occurs successfully over time when a high volume of blogs are present. Verify that real-time capturing occurs without disruption to system functionality or user experience.

Repository Feature	**RF79 - The archive provides a user interface to control data redundancy**
Requirements	**SP2 – Mechanisms to avoid data loss**
Interpretation	The system should provide a user interface where records identified as duplicates by the system is displayed. This display should present options for handling the redundant data, such as keep/delete.
Early tests	Verify that the system accurately identifies duplicate records and presents them in the user interface. Verify that functions for handling duplicate records operate as expected.
Later tests	

Repository Feature	**RF78 - The archive can handle a very large number of content and users** **SF15 - The spider can handle a very large (number) of blogs**
Requirements	**PR3 Real time archiving** **CS4 Clustering and high availability architectures**
Interpretation	Blog content in the BlogForever platform should be kept up-to-date with its sources by a specified amount of time defined by the administrator. This feature should function efficiently even when handling a large number of records and users.
Early tests	Verify that the spider identifies and crawls content on identified blogs that is created after initial large-volume crawl of blogs. Verify that on-going real time archiving at a high volume does not interfere with functionality of the spider.
Later tests	Verify that blog posts and comments continue to be ingested until the completion of the time specified by the

	administrator. Verify that spider is able to undertake further initial crawls while continuing with real time archiving of previously crawled blogs.

Repository Feature	**RF80 - The archive is built based on a modular service-oriented architecture**
Requirements	**CS5 Modularity**
Interpretation	The software should be built in such a way that functionality can be customised at the software level by adding or removing available function modules. Modules should have clear boundaries and well-documented interfaces between them. A Service-Oriented Architecture (SOA) style should be used to ensure that services are highly re-usable throughout the system, and may be accessed by third-party developers.
Early tests	Verify via observation by a knowledgeable programmer that the software is modular and is built on a Service-Oriented Architecture. Verify that documentation exists to support the modules and services.
Later tests	

Further internal and external testing details and final results will be extensively provided for this case study within T5.2 and T5.3.

4 Conclusions

This report sets out an **extensive case study framework** for the next WP5 tasks (T5.2 and T5.3), where six case studies will be implemented and analysed. Ultimately, WP5 will try to set an understanding on how strongly the BlogForever platform (spider and repository) will impact the blogging archival methods of the different blog users, their communities and any other relevant stakeholders.

T5.1 presents a research plan, keeping all the potential software testers focused through the use of relevant research questions within each case study. The aim is to gather a comprehensive dataset with relevant qualitative and quantitative analytical methods to draw final conclusions on how important the BlogForever platform is and how sustainable it will be in the short and long term. The ultimate purpose of WP5 testing is to obtain **quality assurance, verification, validation, impact and sustainability** of the BlogForever spider and repository.

The overall trajectory of this plan anticipates that the actual system will be implemented in stages; and that the evaluation will become more complex towards the end of the programme, involving increasingly larger number of blogs, more stakeholders, more content and more functionality; allowing scalability issues to be recognised as early as possible. Ultimately, WP5 tasks are geared to **overview and resolve the potential platform problems** through the different case studies.

As well, the report details **descriptions of the sets of blogs** that have been selected and represent different blogs communities, and will be used for testing. And introduces the cross-sector researchers/testers to some of the **features connected to WP4 users requirement**s, preparing these collaborators with a **good background of the challenges** that the case studies might produce within T5.2 and T5.3.

One of the issues that this report framework is not considering is the need of specific training tips for the different research teams running the case studies. The reason behind is that the whole partnership represents an important level of software development and testing knowledge and it is expected that this knowledge will be shared across all parties within WP5 when needed.

The case studies framework has been designed to be **flexible and adaptable to the release of new platform features.** As well, the framework presented has considered those WP4 generic requirements that still need to be allocated to specific platform features in T5.2.

Testers will focus initially on the observation of different platform features allocated to each case study and decide **how to design questionnaires** to test external users on how well they use and interact with the newly developed platform. Apart from these questionnaires, the need for **log files analytics** is presented but further specifications for the design of the different sets of log files will be provided within T5.3.

Overall this report provides, through an initial set of questions and using software testing knowledge, a **set of tools to gather and analyse relevant information about how successful the implementation of the platform** is in the long run.

The **main concerns and challenges** at this stage are that the software testing workload will be affected by the software development workflow. Secondly, collaborators participating in the case studies might lose the focus of what exactly they are aiming to test. Finally, the data collection might not be gathered as efficiently as initially expected. Other potential and actual problems and their solutions will be identified and tabulated in the next stages of WP5.

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A. Appendix: 4.1 User Requirements Allocated to Case Studies

Table 5 - WP4 Requirements for Case Study I

REQUIREMENT	LEVEL	CS	MAN/AUTO
DR11 – Differentiate between blog and blog post	A	1	A
UI1 – Web Interface	A	1	M
UI6 – Latest posts	A	1	M
UI15 – Search interface	A	1	M
IR3 – Export data using OAI–PMH protocol and Dublin Core schema	A	1	M
FR16 – Search by author	A	1	M
DR7 – Date/Timestamp for Creation and capturing	A	1	A
SR1 – Passwords are stored encrypted	A	1	A
FR37 - Web portal	A	1	M
FR41 - Retrieving semi-structured information	A	1	A
FR43 - Access to content in a harmonized way	A	1	M
FR46 - Internationalization	A	1	M
DR21 - Long term digital preservation	A	1	A
DR22 - METS	A	1	A
IR6 - Facilities to enable interoperability	A	1	A
FR51 - UTF8 the default character encoding	A	1	A
FR3 – Descriptive statistics for the archive	B	1	M
FR7 – User dissemination channels for blog post	B	1	M
FR12 – Notification about changes in the archive	B	1	M
DR5 – Tags of the blog or blog post	B	1	A
DR6 – Metadata for captured contents	B	1	A
DR17 – Metadata for blogs	B	1	A
UI21 – Archived content is clearly stated as such	B	1	A
FR23 – Detection of duplicates	B	1	A
DR8 – Aggregators & Portals	B	1	A
EI4 – Accessible via search machines	B	1	A
EI5 – Export as CSV	B	1	M
IR1 – Single Sign On/Interoperates with Authentication System especially LDAP	B	1	A
IR4 – Expose parts of the archive via OAI–PMH based on specified criteria.	B	1	M
LR5 – Open source software license is preferable	B	1	A
FR50 - Most important content type (text/HTML)	B	1	A
UI29 - Multiple language support	B	1	A
UI33 - User profiles	B	1	M
RA1 – Recovery of the system	C	1	A

Table 6 - WP4 Requirements for Case Study II

REQUIREMENT	LEVEL	CS	MAN/AUTO
RA1 – Recovery of the system	C	1	A
DR13 – Comments	A	2	A
UI5 – Citation is presented prominently	A	2	M
UI7 – Tags for blogs and blog posts	A	2	A
FR13 – Keyword/Metadata search	A	2	A
FR14 – Full–text search	A	2	A
FR15 – Selection of blogs to archive	A	2	A
DR2 – URI and metadata for referencing/citing	A	2	M
DR3 – Disclaimer	A	2	M
DR4 – Display the author of the blog, blog post, comment	A	2	M
SM2 – Software updates	A	2	A
FR44 - Advanced searching	A	2	M
IR8 - Digital Object Identifier	A	2	M
FR10 – Bookmarking of blog posts	B	2	M
FR32 – Add user suggested blogs to the archive	B	2	M
DR15 – Visits of blogs and blog posts	B	2	M
DR18 – Remove private data of archive users	B	2	A
UI8 – Overview with metadata and summary	B	2	M
UI19 – Display similar blogs and posts	B	2	M
UI20 – Display blogs that were read by people who have read a specific blog	B	2	M
UI22 – Density of displayed information	B	2	M
UI23 – Categories/Topics are shown in different tabs	B	2	M
UI24 – Display with only core information	B	2	M
SR2 – Access restricted to IP–range	B	2	A
UI30 - Creation of a comminuty of providers and recipients within the archive platform	B	2	M
UI34 - Simple submission by authors	C	2	M
UI35 - Workflow to manage blog submissions	C	2	M

Table 7 - WP4 Requirements for Case Study III

REQUIREMENT	LEVEL	CS	MAN/AUTO
FR1 – Deletion by the blog author	A	3	M
IR2 – Capturing is possible for various platforms	A	3	A
RA2 – Correct information in the archive	A	3	A
FR42 - Weblog content validation and spam filtering	A	3	A
FR45 - Personalized filtering services	A	3	M
FR47 - Data integrity	A	3	A
IR7 - Open URL support	A	3	M
FR48 - Crawler/Spider Support platform flexibility	A	3	A
FR49 - Support different versions of Blogging software	A	3	A
FR4 – Blog export	B	3	M
FR8 – Topics (Categories) for blogs and blog posts	B	3	M
FR17 – Print/Export as PDF, JPEG, etc.	B	3	M
FR20 – Favorite list of blogs and topics	B	3	M
FR29 – Detect and remove spam	B	3	A
FR30 – Extract bibliographic metadata from blog contents	B	3	M
DR16 – Search key words	B	3	M
UI3 – History of own activities in the archive	B	3	M
UI4 – Subscribe and Navigate activities of other users	B	3	M
UI17 – Display references (links) to other sources inside or outside the archive	B	3	M
EI3 – Pingback, Trackback	B	3	A
IR5 – Connection with federated search engine dbwiz	B	3	A
FR9 – Content translation	C	3	M
DR19 – Distinguish institutional/corporate blogs from personal blogs	C	3	M
FR33 – Dissemination of newly archived items in external social platforms (ex. Twitter) in connection with author profiles	C	3	M
UI18 – Search in external sources	C	3	M
UI31 - Ranking of archived posts	C	3	M
UI32 - Tagging system	C	3	M

Table 8 - WP4 Requirements for Case Study IV

REQUIREMENT	LEVEL	CS	MAN/AUTO
FR2 – Capturing filter	A	4	M
FR6 – Processing of Licenses	A	4	A
DR1 – Rights and Licenses	A	4	M
LR1 – Copyright laws	A	4	A
LR2 – Privacy laws	A	4	A
LR3 – Additional national laws	A	4	A
LR4 – License of the content	A	4	M
OP1 - Versioning	A	4	M
OP3 - APIs for developers	A	4	A
FR54 - What to archive: text and comments	A	4	M
FR5 – Descriptive statistics for a single blog or blog post	B	4	M
FR11 – Recommendation system	B	4	M
FR22 – Summaries/Journals about new archive content	B	4	M
FR27 – Ranking of blogs and blog posts	B	4	M
DR14 – Embedded objects	B	4	M
UI2 – Magazine/Journal view	B	4	M
EI1 – API for external clients to query data	B	4	M
EI2 – Data access/export as XML	B	4	M
SM3 – Data export for migration	B	4	A
DR23 - Mashup activities	B	4	M
DR12 – Demographics	C	4	M
FR31 – Define important blogs and filter junk	C	4	M
FR34 – Topic/Subject detection	C	4	A
FR53 - Snapshot versions of blog designs in the archive	C	4	M
FR55 - Universal Login & central login	C	4	M

Table 9 - WP4 Requirements for Case Study V

REQUIREMENT	LEVEL	CS	MAN/AUTO
UI16 – Easy to learn/Intuitive	A	5	M
FR36 - Memetraking and trend detection	A	5	M
FR38 - Multidimensional indexing	A	5	M
FR39 - Digital rights management	A	5	A
FR40 - Billing system	A	5	M
OP2 - OAIS	A	5	A
UI13 – Customizable user dashboard	B	5	M
UI12 – Annotations and Highlighting	B	5	M
FR18 – Analyze the network structure of blogs	B	5	M
FR26 – Context–sensitive search by keyword	B	5	M
FR28 – Recommend a cluster of blogs according to user preferences	B	5	M
UI9 – Network view on topics, blogs, posts, authors, etc.	B	5	M
UI10 – Available services depend on the content rights	B	5	M
UI27 – Dynamic network view on topics, blogs, posts, etc.	B	5	M
EI6 – Export links between blog content	B	5	M
FR19 – Sharing and collaboration	C	5	M
FR21 – Sentiments analysis on blog post level	C	5	M
FR25 – Paid access/Billing system	C	5	M
FR35 – Detection and ranking of the originality	C	5	M
UI14 – User interface for mobiles	C	5	M
UI25 – Filtered, personalized aggregation of content for end–users	C	5	M
UI26 – Historical/Chronological view on blogs combined with corresponding statistics	C	5	M

Table 10 - WP4 Requirements for Case Study VI

REQUIREMENT	LEVEL	CS	MAN/AUTO
UI10 – Available services depend on the content rights	B	5	M
UI27 – Dynamic network view on topics, blogs, posts, etc.	B	5	M
EI6 – Export links between blog content	B	5	M
FR19 – Sharing and collaboration	C	5	M
FR21 – Sentiments analysis on blog post level	C	5	M
FR25 – Paid access/Billing system	C	5	M
FR35 – Detection and ranking of the originality	C	5	M
UI14 – User interface for mobiles	C	5	M
UI25 – Filtered, personalized aggregation of content for end–users	C	5	M
UI26 – Historical/Chronological view on blogs combined with corresponding statistics	C	5	M
CS1 – Amount of archived blogs	A	6	A
CS2 – Amount of blog posts per day	A	6	A
CS3 – Amount of users	A	6	A
PR2 – Storage data concurrently	A	6	A
PR1 – Amount of blog posts to capture	A	6	A
SP2 – Mechanisms to avoid data loss	A	6	A
PR3 - Real time archiving	A	6	M
CS4 - clustering and high availability architectures	A	6	A
CS5 - Modularity	A	6	A
SP1 – Support for different SQL–data bases	B	6	A
SM1 – Migration/Updating without down time	B	6	A
FR24 – User specific collections/projects	C	6	M
UI28 – Integration/Combination with other systems	C	6	A
RA3 – Application High Availability	B	-	-
DR10 – User Annotations	B	-	-
DR20 – Blog comments from several source	B	-	-
FR52 - Sharing and promotion beyond the archive	C	-	-

B. Appendix: Internal Data Collection Table Example

The following table is a draft version of the possible score system database from the **Internal Participants Direct Observations** of the platform features to use and develop further in T5.2

Table 11 - Case Study Internal Testing Scoring Database

How useable is the platform across all case study groups - Summary Table				
This table summarised the results of our cases studies. For detail on each question please refer to the case study documentation				
			Case Study Group 1	
	weighting of importance of feature, to first release	*Weighting comment*	Summary of sentiment	average score
1. How well can the platform be used for retrieval and export of data				26
Sub questions (examples)				
Are you able to export to all the formats you require	4	*Highest importance as we have to deliver all the formats users want*	yes, all formats were available	4
Is the export interface easy for you r to use	2	*Lower as we provided it works, we can always improve*	if was very good, but the instructi	3
How many steps did you have to go through to achieve the export, were more than you expected	2	*Lower as we provided it works, we can always improve*	too many	2
2. How well does the platform import data				
3. How to users rate the platform as source of research and a point of citation				

C. Appendix: Letter for Inclusion in Case Studies

University of London Computer Centre
Senate House
Malet Street
London WC1E 7HU

[Name of website owner]
[Address of website owner]
[Email of website owner]

[Date]

Dear [Name],

BlogForever: inclusion in a case study

We would like to introduce you to the BlogForever project and invite you to add your blog to a test corpus, as part of our ongoing case study design. We would like to harvest, copy and monitor updates to your blog [Website Name] currently hosted at [URL]. This letter is to tell you more about the project, and give you the option to opt out of the case study.

BlogForever is a collaborative EU funded project. Its key objective is to develop robust digital preservation, management and dissemination facilities for weblogs. These facilities will be able to capture the dynamic and continuously evolving nature of weblogs, their network and social structure, and the exchange of concepts and ideas that they foster; pieces of information omitted by current web archiving methods and solutions.

By June 2012, the project will have produced a working BlogForever platform. We will also have produced a web crawler, called the BlogForever spider, capable of harvesting blog content.

The platform will hold copies of target blogs; aggregate new content when the blog is updated; allow users to browse the archives of blogs; and other features, which will be implemented after June 2012.

The BlogForever spider will crawl and capture blog data, including updates, perform indexing of blog content, perform advance information retrieval outcomes, perform spam detection, and blog ranking.

In order to test the platform and the spider, we would like to include your blog in the test corpus. If you're agreeable, we'll be doing the following as part of our case studies:

- Copy your blog content with the BlogForever spider

- Store this content in the BlogForever platform
- Aggregate new content to the platform whenever your blog is updated
- Allow a very limited set of users to browse the copies
- Allow users to test platform features on the copies, as new features are developed

We should stress that we will not be putting the test copies "live" into the internet, or republishing them in any way. The copies will exist in a closed test environment.

If for any reason you would prefer that your blog is not included in the case study, and would like to opt out of the project, please reply to the email below.

If you have any questions, please contact me at the address below.

Silvia Arango-Docio
Project Officer / Data Analyst
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Learn more about BlogForever.

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D. Appendix: Example of a Completed Case Study Internal Testing Template

BlogForever Platform Case Study Template:

Aim to use the following template to specify details of the implementation of different software features and details of the case study research objectives for the blog group selected.

1. Reasons for selection of the source blog group:
The test corpus for this case study has as main objective to determine the success of the software implementation process for the **information retrieval functions**. For this purpose we will study at least 58 academic blogs under the crawler system designed for the BlogForever project

2. Objective of the case study: **Case Study 1**
This case study examines several repository features and spider features. In each case we will be testing *prototypes* of the repository and the spider, as they are developed.

3. Executive Summary of case study:
(Sources: section 4.b and section 6 of this template)

4. Integration and set up:

a. **Description of set up and integration of BF platform**:
UoL blogs have been submitted to Spider and I accessed the platform here for testing http://bf1.csd.auth.gr/?ln=en:

b. **Summary of outcome of integration:**

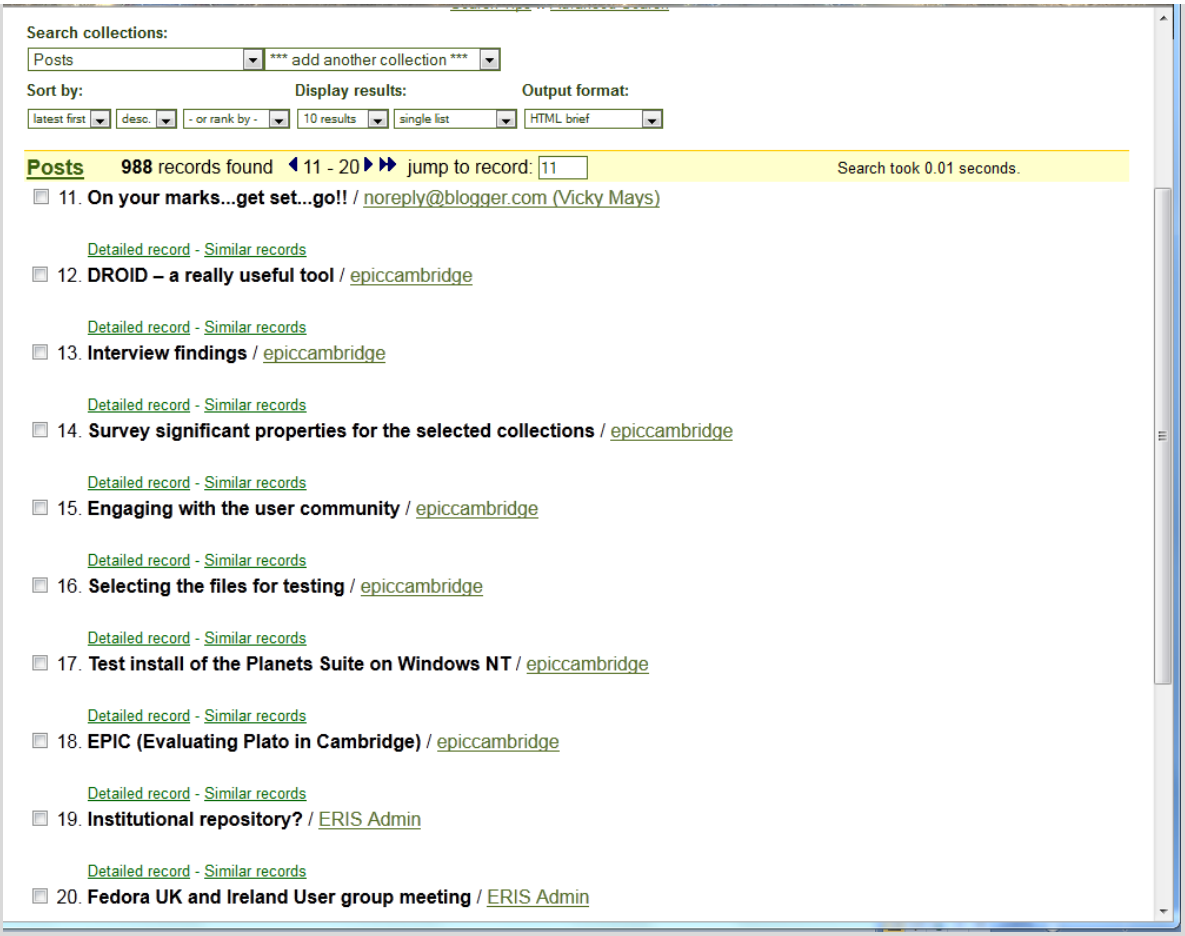
5. Research Question ID (i.e RQ1.1): Title of Research Question

Description of the research question	Are the BlogForever software implementation processes an **overall success**?
Requirement original ID (From D4.1)	DR11 – Differentiate between blog and blog post
Feature ID (From WP4)	RF4 - Create the adequate bibformat output templates to display blogs and blog posts differently
Detail of potential stakeholders (External)	Key players identified: bloggers (blog authors); blog providers; libraries, museums, information systems centres and archives; universities and research institutes; hosting companies and blog readers (journalists and businesses companies).
Detail of actors (see details in use case tables in 4.1 report)	
Unit of analysis	Blog database; blog properties; spider elements; repository elements...

Pre-requisites to enable feature/requirement	Installations (BlogForever platform current setup)
Expected Outcome	Expect the platform to identify and differentiate between blogs and blog posts and be able to deliver them as separate entities.
Testing Details	Able to search posts as the platform has enabled this. There is a clear separation of posts from blog.
Was the expected outcome achieved	Yes and No
Report	Describe actual outcome with specific examples
Does outcome match possible stakeholder expectations?	(Yes/ No plus reasons and/or examples)
Recommended corrective measure	It would be good to be identify the name of the main blog within each blog post/
Score Functionality	3=Most areas worked as expected
Further analysis needed	Yes
Research team member name	Patricia Sleeman

6. **Detailed Summary of evaluation of features:**
The feature is demonstrated to work effectively. We think that the post should have the name of the main blog embedded within it, otherwise there is no context about the post other than the title of the blog post and author's name. Also the link of the post is placed in an un-intuitive position in relation to the title of the post in the listings. It appears immediately above the title of the next post. It should be beside the related post.

7. **Appendix of evaluation of features:** Here is a screen shot of the listings of blog posts:



Example of post in entirety without any reference to main blog. See below:

BLOGFOREVER TEST REPOSITORY
Search
Submit
Personalize
Help
Home > Posts > Blue Ribbon Task Force Publishes Sustainable Economics for a Digital Planet
Information
References (0)
Citations (0)
Keywords
Discussion (0)
Usage statistics
Files
Plots
JISC PoWR
Also in this blog:
"Why study the web?" – Monday 8th March, Royal Society
"A Fifth Of BBC Sites Are Already Dead"
Storing Information in the Cloud
Blue Ribbon Task Force Publishes Sustainable Economics for a Digital Planet
The Library of Congress Twitter Archive
JISC Beginner's Guide to Digital Preservation
Making any Upgrades to your Blog Sir?
A Guide to Web Preservation
Cessation of posts to the JISC PoWR blog
Goodbye from the JISC PoWR blog
Blue Ribbon Task Force Publishes Sustainabl
Economics for a Digital Planet
Blue Ribbon Task Force Publishes Sustainabl
Economics for a Digital Planet
Posted by Marieke Guy on April 22nd, 2010
Universities grappling with complex decisions on which of their bur
digital resources they should preserve – and the inherent financial,
and legal issues that surround such work – may welcome a report
offers a "supply-and-demand" perspective on how individuals and
institutions might manage their digital collections.
The Blue Ribbon Task Force on Sustainable Digital Preservation an
(BRTF-SDPA), a new international initiative funded by JISC and oth
organisations, has recently released its report entitled Sustainable
Economics for a Digital Planet: Ensuring Long-Term Access to Dig
Information. Its report examines the complicated and diverse issu
an economic standpoint. It identifies the problems intrinsic to all pu
digital materials, and proposes domain-specific actions that addres
challenges to sustainability. The report focuses its inquiry on mate
long-term public interest in content domains with diverse preserva
profiles, namely scholarly discourse, commercially owned cultural c
and collectively produced Web content.
JISC is organising a free one-day symposium in London on 6 May
where the Blue Ribbon task force will present its final report and in

E. Appendix: University of London Blog Data – Case Study I

Jiscinvolve Domain – Blog URL	Blogspot Domain – Blog URL
http://aida.jiscinvolve.org/	http://academic-networking.blogspot.com/
http://vibel.jiscinvolve.org/	http://aeiouproject.blogspot.com/
http://astrodabis.jiscinvolve.org/wp/	http://admiral-announce.blogspot.com/
http://trinitybcp.jiscinvolve.org/wp/	http://bloomsburymediacloud.blogspot.com/
http://clareasmud.jiscinvolve.org/	http://carmhull.blogspot.com/
http://clasm.jiscinvolve.org/wp/	http://cloudbankblog.blogspot.com/
http://dev8d.jiscinvolve.org/	http://cul-comet.blogspot.com/
http://eassessmentinwales.jiscinvolve.org/	http://conceptlinkage.blogspot.com/
http://eassignment.jiscinvolve.org/	http://divasproject.blogspot.com/
http://ereflect.jiscinvolve.org/	http://jisc-dura.blogspot.com/
http://hedebate.jiscinvolve.org/	http://egret-project.blogspot.com/
http://greenict.jiscinvolve.org/	http://jiscenable.blogspot.com/
http://biooer.jiscinvolve.org/wp/	http://ephrum.blogspot.com/
http://greenvideoconference.jiscinvolve.org/wp/	http://geocrimedata.blogspot.com/
http://chemtube3d.jiscinvolve.org/wp/	http://goslurp.blogspot.com/
http://james.jiscinvolve.org/	http://www.thejoyofelearning.blogspot.com/
http://access.jiscinvolve.org/	http://lewishamdiplomas.blogspot.com/
http://audience.jiscinvolve.org/	http://modular-e-admin.blogspot.com/
http://bce.jiscinvolve.org/	http://qtisupport.blogspot.com/
http://preservation.jiscinvolve.org/	http://shuffl-announce.blogspot.com/
http://digitisation.jiscinvolve.org/	http://viewpointsproject.blogspot.com/
http://elearning.jiscinvolve.org/	http://welshrepositorynetwork.blogspot.com/
http://infteam.jiscinvolve.org/	http://wildtool.blogspot.com/
http://jif08.jiscinvolve.org/	http://ysjdigirep.blogspot.com/
http://jiscinvolve.org/	**WordPress Domain – Blog URL**
http://graceporter.jiscinvolve.org/	http://engagingalumni.wordpress.com/
http://gregclemett.jiscinvolve.org/	http://artnotesdev.wordpress.com/
http://hectorpeebles.jiscinvolve.org/	http://aselproject.wordpress.com/
http://lawrie.jiscinvolve.org/	http://bayesianfeedfilter.wordpress.com/
http://roberthc1.jiscinvolve.org/	http://bruceatbrunel.wordpress.com/
http://whaa.jiscinvolve.org/	http://csapopencascade.wordpress.com/
http://librariesofthefuture.jiscinvolve.org/	http://clarionproject.wordpress.com/
http://jiscpowr.jiscinvolve.org/	http://csapopencollections.wordpress.com/
http://virtualworlds.jiscinvolve.org/wp/	http://deloresoer.wordpress.com/
http://services.jiscinvolve.org/	http://dpta.wordpress.com/
http://u-and-i.jiscinvolve.org/	http://jiscenable.wordpress.com/
http://jisciret.jiscinvolve.org/	http://researchclusters.wordpress.com/
http://legalit.jiscinvolve.org/	http://uwicjisccapacity.wordpress.com/
http://lipalrc.jiscinvolve.org/	http://eriscotland.wordpress.com/
http://edskjb.jiscinvolve.org/	http://epiccambridge.wordpress.com/
http://notesfromthefuture.jiscinvolve.org/	http://geosciteach.wordpress.com/

http://osswatch.jiscinvolve.org/	http://griproject.wordpress.com/
http://pict.jiscinvolve.org/	http://hydrangeainhull.wordpress.com/
http://pocket.jiscinvolve.org/	http://locatinglondonspast.wordpress.com/
http://pulse.jiscinvolve.org/	http://myleicestershire.wordpress.com/
http://qubrefworks.jiscinvolve.org/	http://onlyconnectbolton.wordpress.com/
http://contented.jiscinvolve.org/	http://yorkdl.wordpress.com/
http://rdtf.jiscinvolve.org/wp/	http://admopened.wordpress.com/
http://rscuk.jiscinvolve.org/	http://psycheheythrop.wordpress.com/
http://soundsgood.jiscinvolve.org/	http://sydenhamcrystalpalace.wordpress.com/
http://nspb.jiscinvolve.org/	http://salt11.wordpress.com/
http://sca.jiscinvolve.org/	http://smileproject.wordpress.com/
http://nkipar.jiscinvolve.org/	http://flexibleservicedelivery.wordpress.com/
http://virtualworldsandvles.jiscinvolve.org/wp/	http://leedsmetstartrak.wordpress.com/
http://collaborativetools4bce.jiscinvolve.org/	http://streamlinenews.wordpress.com/
http://rscwbl.jiscinvolve.org/	http://smartjisc.wordpress.com/
	http://vishistory.wordpress.com/
	http://pembscollege.wordpress.com/
	http://wlbrproject.wordpress.com/
	http://projectxyz.wordpress.com/

F. Appendix: University of Warwick Blog Data – Case Study II

Blog URL	Blog URL
http://blogs.warwick.ac.uk/researchexchange	http://blogs.warwick.ac.uk/guglielmomeardi
http://blogs.warwick.ac.uk/tcollyer	http://blogs.warwick.ac.uk/researcherlife
http://blogs.warwick.ac.uk/linbiying	http://blogs.warwick.ac.uk/jivora
http://blogs.warwick.ac.uk/jillatkinson	http://blogs.warwick.ac.uk/courtneythornberry
http://blogs.warwick.ac.uk/charlottemathieson	http://blogs.warwick.ac.uk/hcha
http://blogs.warwick.ac.uk/christinewaddington	http://blogs.warwick.ac.uk/markharrison
http://blogs.warwick.ac.uk/ahazelden	http://blogs.warwick.ac.uk/carlfernandes
http://blogs.warwick.ac.uk/jay2788	http://blogs.warwick.ac.uk/ruthpearce
http://blogs.warwick.ac.uk/loved	http://blogs.warwick.ac.uk/hollycruise
http://blogs.warwick.ac.uk/mli	http://blogs.warwick.ac.uk/chrismurray
http://blogs.warwick.ac.uk/giulialasen	http://blogs.warwick.ac.uk/annawormleighton
http://blogs.warwick.ac.uk/minatafazoli	http://blogs.warwick.ac.uk/lhunt
http://blogs.warwick.ac.uk/cparkinson	http://blogs.warwick.ac.uk/zoebrigley
http://blogs.warwick.ac.uk/avedavies	http://blogs.warwick.ac.uk/jodieflavell
http://blogs.warwick.ac.uk/wthomas	http://blogs.warwick.ac.uk/paynec
http://blogs.warwick.ac.uk/hnryan	http://blogs.warwick.ac.uk/alicefoster
http://blogs.warwick.ac.uk/helenriley	http://blogs.warwick.ac.uk/uzkucm
http://blogs.warwick.ac.uk/ariqbal	http://blogs.warwick.ac.uk/fqadri
http://blogs.warwick.ac.uk/parmindersingh	http://blogs.warwick.ac.uk/nsdeogon
http://blogs.warwick.ac.uk/emreaksoy	http://blogs.warwick.ac.uk/mcvernon
http://blogs.warwick.ac.uk/mwsandouk	http://blogs.warwick.ac.uk/morleyd
http://blogs.warwick.ac.uk/barbero	http://blogs.warwick.ac.uk/fsavva
http://blogs.warwick.ac.uk/mbakir	http://blogs.warwick.ac.uk/cemathieson
http://blogs.warwick.ac.uk/mpitts	http://blogs.warwick.ac.uk/java
http://blogs.warwick.ac.uk/lisadavis	http://blogs.warwick.ac.uk/manavgupta
http://blogs.warwick.ac.uk/shalininewatia	http://blogs.warwick.ac.uk/ramizahmed
http://blogs.warwick.ac.uk/rebeccapayne	http://blogs.warwick.ac.uk/bradydaniel
http://blogs.warwick.ac.uk/sbellone	http://blogs.warwick.ac.uk/ikaldi
http://blogs.warwick.ac.uk/rajklal	http://blogs.warwick.ac.uk/hsun
http://blogs.warwick.ac.uk/s-ckuo	http://blogs.warwick.ac.uk/dafydddavies
http://blogs.warwick.ac.uk/kaminau	http://blogs.warwick.ac.uk/mythilimadapati
http://blogs.warwick.ac.uk/nikunjmorjaria	http://blogs.warwick.ac.uk/escobarposadaj
http://blogs.warwick.ac.uk/mahimarazdan	http://blogs.warwick.ac.uk/harunahasan
http://blogs.warwick.ac.uk/kwellicome	http://blogs.warwick.ac.uk/samiulalam
http://blogs.warwick.ac.uk/oghenetegainoni	http://blogs.warwick.ac.uk/ungsutornthavornlertrat
http://blogs.warwick.ac.uk/leonhidderley	http://blogs.warwick.ac.uk/tbray
http://blogs.warwick.ac.uk/pkirwan	http://blogs.warwick.ac.uk/pmarsh

G. Appendix: CyberWatcher Blog Data – Case Study III

Blog URL	Blog URL
http://bx.businessweek.com/pharmaceutical-industry/blogs/	http://blogs.consumerreports.org/health/prescription_drugs/
http://coreynahman.com/	http://blogs.wsj.com/health/
http://www.rxtimes.com/	http://seekingalpha.com/sector/biotech
http://pharmamkting.blogspot.com/	http://www.pharmaweblog.com/
http://pharmservices.blogspot.com/	http://industry.bnet.com/pharma/
http://www.furiousseasons.com/	http://blog.prescriptionproject.org/
http://blog.pharmalive.com/	http://www.fiercepharma.com/
http://www.pharmastrategyblog.com	http://invivoblog.blogspot.com/
http://asi-maytag.com	http://blog.medadnews.com/
http://blog.rddirections.com/	http://scientific-misconduct.blogspot.com/
http://www.theangrypharmacist.com	http://pipeline.corante.com/
http://brodyhooked.blogspot.com	http://jimedwardsnrx.wordpress.com
http://pharm-land.blogspot.com	http://www.pharmacistdaily.blogspot.com
http://www.jimplagakis.com	http://www.pharmacistplace.com
http://www.medicalmalpracticelawyers.org/medical-malpractice	http://blog.pharmexec.com
http://www.drugwonks.com/	http://primeinc.org/pharmacistblog.html
http://www.edrugsearch.com/edsblog	http://pharmacytechnology.blogspot.com
http://www.medhumanities.org	http://www.eyeonfda.com/eye_on_fda
http://medicalconsumerism.blogspot.com	http://pharmagossip.blogspot.com
http://www.drug-injury.com	http://www.pharmacydegrees.net
http://www.blacktriangle.org/blog	http://blog.prescriptionaccess.org
http://www.pharmacyerrorinjurylawyer.com	http://healthyskepticism.org/home.php
http://ahrp.blogspot.com	http://hcrenewal.blogspot.com
http://blog.hcfama.org/?cat=26	http://www.putpharmacyfirst.org/blog/?topicId=10566&/Pharmacy+First
http://energyoutlook.blogspot.com/	http://www.treehugger.com/
http://www.theenergycollective.com/	http://thefraserdomain.typepad.com/energy/
http://www.metaefficient.com/	http://watthead.blogspot.com/
http://cleantechnica.com/	http://jcwinnie.biz/wordpress/
http://chargezine.blogspot.com/	http://tyler.blogware.com/
http://energyfacts.blogspot.com/	http://www.thewatt.com/
http://www.cato-at-liberty.org/category/environment-climate/	http://industry.bnet.com/energy/
http://www.billgross.com/?gclid=CMjGo_C7qJkCFQETGgod1Xsepg	http://www.instituteforenergyresearch.org/category/blog/
http://www.best-solar-energy.com/	http://www.ethanolblog.net/
http://www.eftf.blogspot.com/	http://www.oilgae.com/blog/
http://carolynelefant1.typepad.com/renewablesoffshore/	http://www.offshoreenergylawblog.com/
http://neinuclearnotes.blogspot.com/	http://atomicinsights.blogspot.com/
http://thoriumenergy.blogspot.com/	http://nucleargreen.blogspot.com/
http://pebblebedreactor.blogspot.com	http://www.risingwind.blogspot.com/

http://www.nanosolar.com/company/blog	http://blogs.wsj.com/environmentalcapital/
http://www.grinzo.com/energy/	http://climateprogress.org/
http://www.energista.org/	http://mariaenergia.blogspot.com/
http://www.autobloggreen.com/	http://www.cleantechblog.com/
http://climaterealityproject.org/blog/	http://coalgeology.com/
http://www.coal.ca/content/index.php?option=com_jd-wp&Itemid=36	http://www.clean-coal.info/drupal/blog
http://www.kycoalblog.org/	http://www.theoildrum.com/
http://peakoildebunked.blogspot.com/	http://www.lifeaftertheoilcrash.net/
http://gone-to-croatoan.blogspot.com/	http://www.crudeoilfuturesblog.com/
http://abarrelfull.com/main/modules/wordpress/	http://www.chevron.com/wpc/blog/
http://blogs.shell.com/climatechange/	http://www.bcenergyblog.com/
http://www.triplediamondenergycorp.blogspot.com/	http://www.environmentalleader.com
www.autoobserver.com	www.autoblog.com
http://blog.wired.com/cars/	http://apps.detnews.com/apps/blogs/autosblog/index.php
http://fastlane.gmblogs.com	http://jalopnik.com
http://blogs.cars.com/kickingtires/	http://www.businessweek.com/autos/autobeat/
http://theautoprophet.blogspot.com	www.thetruthaboutcars.com
http://indianautosblog.com/	http://www.autonews.com/section/BLOG
www.quickcashauto.com/Automotive-Blog/	www.autointheknow.com
www.automarketingblog.com	http://www.autospies.com/
http://automuse.vehicleinfo.com/	http://www.just-auto.com/the-just-auto-blog
http://www.popularmechanics.com/cars/	www.quickcashauto.com/Automotive-Blog/
http://blog.autoconversion.net/	http://www.marketingvox.com/
http://www.adrants.com/	http://www.customerevangelists.typepad.com/blog/
http://www.ducttapemarketing.com/blog/	http://sethgodin.typepad.com/
http://www.ypulse.com/	http://www.convinceandconvert.com/
http://www.copyblogger.com/	http://www.marketingexperiments.com/blog/
http://www.conversationagent.com/	http://www.briansolis.com/
http://www.toprankblog.com/	http://www.socialmediaexaminer.com/
http://econsultancy.com/uk/blog	http://www.webinknow.com/
http://blog.hubspot.com/	http://www.postadvertising.com/
http://www.socialmediaexplorer.com/	http://heidicohen.com/
http://tippingpointlabs.com/blog/	http://conversionscientist.com/
http://directmarketingobservations.com/	http://rohitbhargava.typepad.com/
http://titus.blogs.xerox.com/	http://engage.tmgcustommedia.com/
http://www.simplyzesty.com/	http://blog.blisspr.com/
http://blogs.forrester.com/reineke_reitsma	http://blogs.forrester.com/harley_manning
http://engineering.curiouscatblog.net/	http://consumerist.com/
http://urbanworkbench.com/	http://cenblog.org/
http://blog.pathwayfinancialservices.biz/	http://www.thoughtclusters.com/
http://blog.rapidrecoverysolution.com/rss2.aspx	http://www.ftpress.com/blogs/index.aspx
http://www.businesscreditblogger.com/	http://www.netbanker.com/
http://globalfss.blogs.xerox.com/	http://www.thefinanser.com/
http://hedgefundmgr.blogspot.com/feeds/p	http://paul.kedrosky.com/

osts/default?alt=rss	
http://carlfutia.blogspot.com/	http://cotstimer.blogspot.com/
http://www.marketfolly.com/	http://theartofcontrariantrading.blogspot.com/
http://www.tickersense.typepad.com/	http://seekingalpha.com/
http://www.zerohedge.com/	http://www.mebanefaber.com/
http://itcrossroads.blogs.xerox.com/	http://futureofdocuments.blogs.xerox.com/
http://radar.oreilly.com/	http://www.businessinsider.com/sai
http://manufacturingindustry.blogs.xerox.com/	http://www.techdirt.com/
http://www.badscience.net/	http://www.wired.com/dangerroom/
http://www.economicprincipals.com/	http://www.cnas.org/blogs/abumuqawama
http://blogs.ft.com/economistsforum/	http://economix.blogs.nytimes.com/
http://howtomakeadifference.net	http://www.freakonomics.com/
http://www.bestpracticesconstructionlaw.com/	http://stumblingandmumbling.typepad.com/
http://collaborativeconstruction.blogspot.com/	http://www.constructionequip.net/
http://www.contractorsblog.com/	http://federalconstruction.phslegal.com/
http://www.buildinggreen.com/live/index.cfm	http://www.djc.com/blogs/BuildingGreen/
http://www.greenbuildinglawupdate.com/	http://www.eartharchitecture.org/
http://greenconstructionuk.wordpress.com/	http://www.greengoddess-vidaverde.com/
http://greenbuildinginspector.com/	http://www.jetsongreen.com/
http://blogs.wsj.com/health/	http://thehealthcareblog.com/
http://healthcarebloglaw.blogspot.com/	http://e-caremanagement.com/
http://healthblawg.typepad.com/healthblawg/	http://www.healthbeatblog.org/
http://takingthehelloutofhealthcare.com/blog/	http://healthblog.ncpa.org/
http://healthplaninnovation.com/	http://health.newamerica.net/blogmain
http://projecthealthdesign.typepad.com/	http://news.avancehealth.com/
http://geekdoctor.blogspot.com/	http://emrdailynews.com/
http://alvor.wordpress.com/	http://www.healthcare-informatics.com
http://akkomp.wordpress.com/	http://agnetalindskog.blogspot.com/
http://www.aip.nu/	http://kafebord.blogspot.com/
http://blogg.vk.se/alejandro	http://albiun.blogg.se/
http://www.alliansfrittsverige.nu/	http://carlbildt.wordpress.com/
http://andersgjohansson.se/	http://ekberg.blogspot.com/
http://annakarinhatt.se/blogg/	andreas.centerpartiet.net/
http://avva.wordpress.com/	http://annickaengblom.blogspot.com/
http://www.birgitta.nu/blogg	http://berrekia-dahmane.blogspot.com/
http://www.bodstromsamhallet.se/	http://blogg.ud.se/utvecklingspolitik/tag/gunilla-carlsson/
http://dalmaneek.blogspot.com/	http://catharinaelmsatersvard.blogspot.com/
http://www.ekonomism.us/	http://www.andersborg.net/
http://frihandelsministern.wordpress.com/	http://eliasgranqvist.moderatblogg.se/
http://hokmark.eu/	http://frog.centerpartiet.net/2011/08/26/anna-karin-hatt-i-brannpunkt/
http://hanswallmark.blogspot.com/	http://www.partiledaren.se/
http://hemmestahasse.blogspot.com/	http://www.helenesblogg.se/

http://inga.blogg.se/	http://www.henrikvonsydow.se/
http://jespersvensson.blogspot.com/	http://blogg.vk.se/jan-nilsson
http://joachimgrundin.se/blogg	http://jinge.se/
http://www.petterssonjonas.blogspot.com/	http://blogg.expressen.se/johanhilton
http://kentpersson.wordpress.com/2011/08/26/ekonomiskt-ansvarstagande-belonas/	http://moderatjamstalldhet.wordpress.com/
http://www.skp.se/blogg/	http://www.matsjohansson.net/
annickaengblom.blogspot.com	http://kulturbloggen.com/
http://mariafrisk.wordpress.com/	http://fotolasse.se/index.php/samhalle/tecken-pa-okad-inkrokthet.htm
http://miafrisk.blogspot.com/	http://martinmobergsblogg.blogspot.com/
http://mitt-i-steget.blogspot.com/	http://miss-maja.blogspot.com/
http://hagwall.wordpress.com/	http://manniskovarlden.wordpress.com/
http://www.perolsson.nu/	http://peowagstrom.wordpress.com/
http://pierreringborg.blogspot.com/	http://politikerbloggen.nyheterna.se/
http://rodaberget.wordpress.com/	http://runelanestrand.wordpress.com/2011/08/26/media-utser-ny-centerledare/
http://sebastianstankar.blogspot.com/	http://www.s-buzz.se/
http://tolgfors.wordpress.com/	http://staffandanielsson.blogspot.com/
http://thomasbohlmark.blogspot.com/	http://www.zaramis.nu/blog/
http://www.helentornqvist.blogspot.com/	http://tokmoderaten.blogspot.com/
http://blog.karitraa.com/	http://veronica-palm.blogspot.com/
http://www.jennyskavlan.com/blogg	http://mettemoller.no/Blog.aspx
http://bikbokblog.com/	http://bikbok5by5.com/
http://minmote.no/	http://www.sundtbloggen.no/?p=3258
http://www.streetstyle.no/	http://snakk.klikk.no/flere_tema1/mote/elle/b/caroline/default.aspx
http://bloggoversikten.com/2012/02/28/dagens-antrekk-donna-10/	http://blogg.costume.no/
http://qtips.no/	http://mirasaab.femelle.no/
http://www.techstorm.no/	http://norskeplugins.com/
http://www.utforsk.com/	http://lasseolsen.blogg.no/
http://www.mikalolsen.com/	http://newth.net/eirik/
http://www.lastrada.no/	http://tekvit.no/
http://blogg.abrenna.com/	http://etablerertorget.no/
http://labs.finn.no/	http://www.metronet.no/blogg/
https://www.more.no/blog/	http://www.nextgentel.no/detneste/
http://nrkbeta.no/	http://telebear.wordpress.com/
http://techworld.no/	http://okonomiguiden.no/
http://blogg.stormberg.no:8080/	http://www.sunnbedrift.no/
http://sunnokonomi.no/	http://talentledelse.no/
http://www.lenefjellheim.com/	http://www.inspiratorforum.com/blog/
http://www.friendsoffeedback.com/	http://screensailor.com/
http://labs.finn.no/	http://www.metronet.no/blogg/
https://www.more.no/blog/	http://www.nextgentel.no/detneste/
http://nrkbeta.no/	http://telebear.wordpress.com/
http://techworld.no/	http://okonomiguiden.no/
http://blogg.stormberg.no:8080/	http://www.sunnbedrift.no/
http://sunnokonomi.no/	http://talentledelse.no/
http://www.lenefjellheim.com/	http://www.inspiratorforum.com/blog/

http://www.friendsoffeedback.com/	http://screensailor.com/
http://www.soininvaara.fi/	http://www.kasvi.org/index.php?blog
http://arirusila.wordpress.com/	http://annakontula.blogspot.com/
http://www.alexstubb.com/fi/blog/	http://muukkonen.blog-city.com/
http://dustygamer.mcmuumio.net/	http://www.yrjohakanen.fi/blogi/
http://jukkatorikka.blogspot.com/	http://merkintoja.blogspot.com/
http://euroetana.blogspot.com/	http://www.taloudellinenriippumattomuus.com/
http://laimeasilli.wordpress.com/	http://blog.hse-econ.fi/
http://thomastaussi.blogspot.com/	http://ebolakani.blogspot.com/
http://nordnetblogi.fi/	http://www.tarkkamarkka.com/blogi/
http://teroluoma.blogspot.com/	http://rahajatalous.wordpress.com/
http://www.tuhatsanaa.net/	http://www.marikoistinen.fi/
http://harto.wordpress.com/	http://gurumarkkinointi.fi/
http://www.alasilta.fi/blog/3	http://vierityspalkki.fi/
http://www.tiedottaja.fi/	http://www.eioototta.fi/
http://buzzikuski.wordpress.com/	http://www.f-secure.com/weblog/
http://www.hilavitkutin.com/	http://www.mobiiliblogi.com/
http://www.teknolelu.fi/	http://vempaimia.net/
http://www.fishpool.org/	http://www.markokaartinen.net/blogi/
http://risto.kurppa.fi/blog/	

H. Appendix: Phaistos Blog Data – Case Study IV

Blog URL	Blog URL
http://apollonios.pblogs.gr/	http://bet-soccer.pblogs.gr/
http://pantocrator.pblogs.gr/	http://hamomilaki.pblogs.gr/
http://Fileleutheros.pblogs.gr/	http://secretwindow.pblogs.gr/
http://theopeppasblog.pblogs.gr/	http://oinousiakos.pblogs.gr/
http://FORZA-GRECIA.pblogs.gr/	http://lab.pblogs.gr/
http://stavrochoros.pblogs.gr/	http://Chris-for-everything.pblogs.gr/
http://ORTHODOX-WORLD.pblogs.gr/	http://takefive.pblogs.gr/
http://destaola.pblogs.gr/	http://safesex.pblogs.gr/
http://lyrics-online.pblogs.gr/	http://cami-y-benjja.pblogs.gr/
http://PAIKTIS.pblogs.gr/	http://stchronicls.pblogs.gr/
http://tv-press.pblogs.gr/	http://fashionistnew.pblogs.gr/
http://termitis.pblogs.gr/	http://Announcements.pblogs.gr/
http://OYNAGKI.pblogs.gr/	http://JWGREECE.pblogs.gr/
http://silver.pblogs.gr/	http://LESXIRODOU.pblogs.gr/
http://agioritikesmnimes.pblogs.gr/	http://triteknoi.pblogs.gr/
http://melodytravel.pblogs.gr/	http://filologoi.pblogs.gr/
http://Casiangeles.pblogs.gr/	http://akatergasta.pblogs.gr/
http://1myblog.pblogs.gr/	http://xanthiamed.pblogs.gr/
http://astro.pblogs.gr/	http://anakenizo-diakosmo.pblogs.gr/
http://genia700euro.pblogs.gr/	http://KALOFAGADES.pblogs.gr/
http://humor.pblogs.gr/	http://eleta.pblogs.gr/
http://misha.pblogs.gr/	http://La-vita-es.pblogs.gr/
http://Agioritis.pblogs.gr/	http://xazoula.pblogs.gr/
http://aroma.pblogs.gr/	http://schooliki3.pblogs.gr/
http://iparxei-mageia.pblogs.gr/	http://Epitropi-Anergon-The.pblogs.gr/
http://lost-path.pblogs.gr/	http://6-gym-patras.pblogs.gr/
http://notebook.pblogs.gr/	http://bluedreamsfishing.pblogs.gr/
http://boulaki.pblogs.gr/	http://waves.pblogs.gr/
http://souvlatzidiko.pblogs.gr/	http://gossip-nea.pblogs.gr/
http://spiti.pblogs.gr/	http://epanellinismos.pblogs.gr/
http://Fishingmania.pblogs.gr/	http://SALVATION.pblogs.gr/
http://Elate-na-gnoristoume.pblogs.gr/	http://argilos-xordi.pblogs.gr/
http://Ellania.pblogs.gr/	http://How-to-slow-heartbea.pblogs.gr/
http://SofaLogia.pblogs.gr/	http://AGIOSDIMITRIOS.pblogs.gr/
http://kthnotrofia.pblogs.gr/	http://amioul.pblogs.gr/
http://gynaikologos-manolis.pblogs.gr/	http://deadair.pblogs.gr/
http://vithos-psihis.pblogs.gr/	http://Descargar-badoo-para.pblogs.gr/
http://dreams.pblogs.gr/	http://falhro-63.pblogs.gr/
http://Tera-Amou.pblogs.gr/	http://otheosmethimon.pblogs.gr/
http://rebeld.pblogs.gr/	http://favourite-stars.pblogs.gr/
http://go2.pblogs.gr/	http://thoughts-of-a-Greek.pblogs.gr/

http://e-ygeia.pblogs.gr/	http://ideke.pblogs.gr/
http://fanis-fns-95.pblogs.gr/	http://emmonh.pblogs.gr/
http://O-KIPOS.pblogs.gr/	http://apeirosgaia.pblogs.gr/
http://Tv-Moves.pblogs.gr/	http://EESK.pblogs.gr/
http://aerologos.pblogs.gr/	http://politikiousia.pblogs.gr/
http://hggiken.pblogs.gr/	http://mus.pblogs.gr/
http://kmas01.pblogs.gr/	http://hellas1.pblogs.gr/
http://sigriseis.pblogs.gr/	http://taxidiaris.pblogs.gr/
http://funny.pblogs.gr/	http://Kafto.pblogs.gr/
http://LOST-EMPIRE.pblogs.gr/	http://Katia.pblogs.gr/
http://hopedies.pblogs.gr/	http://diafimiseis-twn-club.pblogs.gr/
http://Glykia-zoi.pblogs.gr/	http://Dietnet.pblogs.gr/
http://Paparazzi.pblogs.gr/	http://ISILDOR.pblogs.gr/
http://terrasos.pblogs.gr/	http://alithini-alithi.pblogs.gr/
http://spoudasterion.pblogs.gr/	http://parathiro.pblogs.gr/
http://lalw.pblogs.gr/	http://gektidis.pblogs.gr/
http://StixoMania.pblogs.gr/	http://tv-katina.pblogs.gr/
http://spirit.pblogs.gr/	http://coc-nos.pblogs.gr/
http://eineken.pblogs.gr/	http://Fan-gr.pblogs.gr/
http://totalhacker.pblogs.gr/	http://menu.pblogs.gr/
http://math-telos-agras.pblogs.gr/	http://stepanenkovi-ukr-net.pblogs.gr/
http://diaelefsis.pblogs.gr/	http://blogarismenos.pblogs.gr/
http://greekcitizen.pblogs.gr/	http://pm-glyk.pblogs.gr/
http://nemesis.pblogs.gr/	http://rubylo.pblogs.gr/
http://THA.pblogs.gr/	http://astrapovrodo.pblogs.gr/
http://evas-pagina.pblogs.gr/	http://narfita.pblogs.gr/
http://paraxenakias.pblogs.gr/	http://mexikanos.pblogs.gr/
http://YGEIA.pblogs.gr/	http://texni.pblogs.gr/
http://looking-far-away.pblogs.gr/	http://agkem.pblogs.gr/
http://game.pblogs.gr/	http://drapetsonarithmiki.pblogs.gr/
http://diasxizo.pblogs.gr/	http://perception.pblogs.gr/
http://ELLAS.pblogs.gr/	http://ametroepeia.pblogs.gr/
http://allotino.pblogs.gr/	http://single-girls.pblogs.gr/
http://planus.pblogs.gr/	http://my-4-you.pblogs.gr/
http://youget.pblogs.gr/	http://efyp-blyk.pblogs.gr/
http://thanospeppas.pblogs.gr/	http://galiandra.pblogs.gr/
http://chloe-lollipop-s-blo.pblogs.gr/	http://bet-prophecies.pblogs.gr/
http://Tv-Movies.pblogs.gr/	http://dimosioi-computers.pblogs.gr/
http://earinosimeio.pblogs.gr/	http://321.pblogs.gr/
http://testakia.pblogs.gr/	http://pnoi-anemu-ayras.pblogs.gr/
http://bestfilms.pblogs.gr/	http://pierias.pblogs.gr/
http://agatha-christie.pblogs.gr/	http://dyismos.pblogs.gr/
http://To-Mauro-ths-Kardias.pblogs.gr/	http://sdplas.pblogs.gr/
http://skiladiko.pblogs.gr/	http://diavaseto-twra.pblogs.gr/

http://syn-achaias.pblogs.gr/	http://mathschool-online.pblogs.gr/
http://lava.pblogs.gr/	http://melampodas.pblogs.gr/
http://goe.pblogs.gr/	http://ALLYOUNEED.pblogs.gr/
http://TouGamouDiskola.pblogs.gr/	http://newmusic.pblogs.gr/
http://ligery.pblogs.gr/	http://adiexodo.pblogs.gr/
http://edo-makedonia.pblogs.gr/	http://spatalokratos.pblogs.gr/
http://starsforever.pblogs.gr/	http://angell.pblogs.gr/
http://didymoteicho.pblogs.gr/	http://sydmeen.pblogs.gr/
http://SGIAL.pblogs.gr/	http://artino.pblogs.gr/
http://tistrellis.pblogs.gr/	http://datacore.pblogs.gr/
http://anastasiag.pblogs.gr/	http://diapaswn.pblogs.gr/
http://kakaiba.pblogs.gr/	http://HermesXpress.pblogs.gr/
http://animaitaliana.pblogs.gr/	http://Anemodakry.pblogs.gr/
http://luisana-lopilato-wit.pblogs.gr/	http://eparhia.pblogs.gr/
http://firiki.pblogs.gr/	http://sholiaRo.pblogs.gr/
http://motorcycleboy.pblogs.gr/	http://theatrelovers.pblogs.gr/
http://allin.pblogs.gr/	http://metron-ariston.pblogs.gr/
http://akatallilo.pblogs.gr/	http://aliengrip.pblogs.gr/
http://problematization.pblogs.gr/	http://Animals-life.pblogs.gr/
http://petra.pblogs.gr/	http://sentman92.pblogs.gr/
http://runway.pblogs.gr/	http://XRHMA.pblogs.gr/
http://elenalife.pblogs.gr/	http://dino.pblogs.gr/
http://e-typos.pblogs.gr/	http://art-video.pblogs.gr/
http://LIBERALCRETA.pblogs.gr/	http://pyxida.pblogs.gr/
http://freelakon.pblogs.gr/	http://videomania.pblogs.gr/
http://titanis.pblogs.gr/	http://split.pblogs.gr/
http://DONJUAN.pblogs.gr/	http://Xinakias.pblogs.gr/
http://panikosfm.pblogs.gr/	http://ELLAS-VIDEOS.pblogs.gr/
http://a-href-----style--di.pblogs.gr/	http://ellinoisrailini-meso.pblogs.gr/
http://peslac.pblogs.gr/	http://horohronos.pblogs.gr/
http://e-asteia.pblogs.gr/	http://sym.pblogs.gr/
http://SYNLEFKADA.pblogs.gr/	http://ierokliss.pblogs.gr/
http://Free-time.pblogs.gr/	http://alogo.pblogs.gr/
http://psifides.pblogs.gr/	http://DOGSVSCATS.pblogs.gr/
http://apokardiasmou.pblogs.gr/	http://gnosesthe-tin-alithi.pblogs.gr/
http://ASPIDABLOG.pblogs.gr/	http://omorfia-ygeia.pblogs.gr/
http://-mp3-.pblogs.gr/	http://tryfon.pblogs.gr/
http://Married.pblogs.gr/	http://gamos-gamos.pblogs.gr/
http://otiaksizei.pblogs.gr/	http://rafinaport.pblogs.gr/
http://ti-amo.pblogs.gr/	http://thebestmusic.pblogs.gr/
http://magdalini.pblogs.gr/	http://parergo.pblogs.gr/
http://mpala.pblogs.gr/	http://giotaki016.pblogs.gr/
http://soudaport.pblogs.gr/	http://gaskilkishandball.pblogs.gr/
http://Sexy-love.pblogs.gr/	http://ayhan-love-adar.pblogs.gr/

http://link.pblogs.gr/	http://one-piece-fun-club.pblogs.gr/
http://oikonomiki-krisi.pblogs.gr/	http://make-up.pblogs.gr/
http://krisaion.pblogs.gr/	http://note-book.pblogs.gr/
http://seforma.pblogs.gr/	http://slimshady.pblogs.gr/
http://nikiloy.pblogs.gr/	http://fws.pblogs.gr/
http://beautynet.pblogs.gr/	http://pexlivanis.pblogs.gr/
http://Foryourself.pblogs.gr/	http://grafi.pblogs.gr/
http://dikaiopolis.pblogs.gr/	http://trigazis.pblogs.gr/
http://adiaforia.pblogs.gr/	http://classified.pblogs.gr/
http://Anastasia.pblogs.gr/	http://3poulakiakathontan.pblogs.gr/
http://godady.pblogs.gr/	http://pieria.pblogs.gr/
http://apolitik.pblogs.gr/	http://KARFI-PETALO.pblogs.gr/
http://diadiktio.pblogs.gr/	http://imanager.pblogs.gr/
http://encyclopedia.pblogs.gr/	http://epirusgreens.pblogs.gr/
http://kosmaser.pblogs.gr/	http://foodoo.pblogs.gr/
http://salamsasd.pblogs.gr/	http://morearticles.pblogs.gr/
http://oikonomikablog.pblogs.gr/	http://intron.pblogs.gr/
http://ethnikososialistis.pblogs.gr/	http://casiangelesingreece.pblogs.gr/
http://HELLASPRESS.pblogs.gr/	http://laiki-sispirosi-xalk.pblogs.gr/
http://cinefil.pblogs.gr/	http://mousiki.pblogs.gr/
http://Topsecret.pblogs.gr/	http://glareniesaggalies.pblogs.gr/
http://ANATASH.pblogs.gr/	http://destroyingsundays.pblogs.gr/
http://www-LinkinParkGreece.pblogs.gr/	http://dorida.pblogs.gr/
http://anekdota.pblogs.gr/	http://Makris.pblogs.gr/
http://cathrinblogger.pblogs.gr/	http://lefkaspress.pblogs.gr/
http://yellow2000rose.pblogs.gr/	http://pigkouinos.pblogs.gr/
http://paok.pblogs.gr/	http://thisandthat.pblogs.gr/
http://Recipes-of-cooking.pblogs.gr/	http://arabtvshow.pblogs.gr/
http://vertigo.pblogs.gr/	http://2myblog.pblogs.gr/
http://errway-para-siempre.pblogs.gr/	http://metafras.pblogs.gr/
http://aerogaz.pblogs.gr/	http://nick-prinos.pblogs.gr/
http://X-Files.pblogs.gr/	http://vounapotamia.pblogs.gr/
http://namarizathema.pblogs.gr/	http://epikairos.pblogs.gr/
http://kanto-eukola.pblogs.gr/	http://mysnow.pblogs.gr/
http://dhmitris.pblogs.gr/	http://july.pblogs.gr/
http://voice.pblogs.gr/	http://oriflame-cosmetics.pblogs.gr/
http://Home-Sweet-home.pblogs.gr/	http://melia.pblogs.gr/
http://wind01.pblogs.gr/	http://MSDERE.pblogs.gr/
http://funny-jokes.pblogs.gr/	http://xeops.pblogs.gr/
http://tha-blohs-hr.pblogs.gr/	http://minuteWeirdo.pblogs.gr/
http://tisimvainei.pblogs.gr/	http://tokoutitiskardiasmou.pblogs.gr/
http://a12sr.pblogs.gr/	http://catakravgi.pblogs.gr/
http://artagoni.pblogs.gr/	http://MUSICTRIP.pblogs.gr/
http://prag-blog.pblogs.gr/	http://tziggounis.pblogs.gr/

http://asteri2008.pblogs.gr/	http://Update.pblogs.gr/
http://menvswomen.pblogs.gr/	http://romania.pblogs.gr/
http://athkeiaseros.pblogs.gr/	http://KATAGGELIES.pblogs.gr/
http://sexyellhnides.pblogs.gr/	http://musicinme.pblogs.gr/
http://tokseres.pblogs.gr/	http://imvriotis.pblogs.gr/
http://photohellas-plogs-gr.pblogs.gr/	http://projects.pblogs.gr/
http://troktiko.pblogs.gr/	http://fos-fws.pblogs.gr/
http://patito-feo-songs-and.pblogs.gr/	http://opadiliki.pblogs.gr/
http://Star3-Salonica.pblogs.gr/	http://stratos89.pblogs.gr/
http://Rwssel.pblogs.gr/	http://lullabies.pblogs.gr/
http://Free-Online-Games.pblogs.gr/	http://patsilinakos.pblogs.gr/
http://mporeis.pblogs.gr/	http://fashion-world.pblogs.gr/
http://olykos.pblogs.gr/	http://aigaiatis.pblogs.gr/
http://my-space.pblogs.gr/	http://to-thermo-simera.pblogs.gr/
http://sivyl.pblogs.gr/	http://freshpress.pblogs.gr/
http://greenpower.pblogs.gr/	http://anatropes.pblogs.gr/
http://sygkriseis-with-star.pblogs.gr/	http://KINGBASKET.pblogs.gr/
http://StarStruck.pblogs.gr/	http://sthnagkaliamoyela.pblogs.gr/
http://lygsym.pblogs.gr/	http://mytilhnios.pblogs.gr/
http://glwssoy.pblogs.gr/	http://stigmeszois.pblogs.gr/
http://salonika.pblogs.gr/	http://pierias-blog.pblogs.gr/
http://logia.pblogs.gr/	http://olympioi-ellhnes.pblogs.gr/
http://imagine.pblogs.gr/	http://panormos-souniou.pblogs.gr/
http://Paramythia.pblogs.gr/	http://DHM-GIA.pblogs.gr/
http://AGA.pblogs.gr/	http://lillylo.pblogs.gr/
http://sdappe-kimis.pblogs.gr/	http://ola-e-tipota.pblogs.gr/
http://NeverlandTheopoula.pblogs.gr/	http://MLAGANA.pblogs.gr/
http://PCtips.pblogs.gr/	http://thesis.pblogs.gr/
http://vivi.pblogs.gr/	http://afro.pblogs.gr/
http://alphaomega.pblogs.gr/	http://oasis.pblogs.gr/
http://vounisios.pblogs.gr/	http://Chris-Antony.pblogs.gr/
http://pathfinder.pblogs.gr/	http://PIERI.pblogs.gr/
http://PAREMBOLEAS.pblogs.gr/	http://dwsepare.pblogs.gr/
http://sigkriseis.pblogs.gr/	http://VIVIEN.pblogs.gr/
http://FCB.pblogs.gr/	http://mitsimponas-varonos.pblogs.gr/
http://O-kosmos-ths-Nefelis.pblogs.gr/	http://christia.pblogs.gr/
http://ECCOCI.pblogs.gr/	http://schools.pblogs.gr/
http://fashionistas.pblogs.gr/	http://RODON.pblogs.gr/
http://lenia.pblogs.gr/	http://eplatia.pblogs.gr/
http://KERKIDA.pblogs.gr/	http://hkaragkounidis.pblogs.gr/
http://foodsafety.pblogs.gr/	http://APTEONES-KAI-POLITIK.pblogs.gr/
http://reves.pblogs.gr/	http://tokafeneio.pblogs.gr/
http://unearth.pblogs.gr/	http://willow-weddings.pblogs.gr/
http://nespa.pblogs.gr/	http://ksilino-kastraki.pblogs.gr/

http://Christmas.pblogs.gr/	http://politesevosmou.pblogs.gr/
http://havefun.pblogs.gr/	http://anentaxtos--aristero.pblogs.gr/
http://ANGELS.pblogs.gr/	http://rieri.pblogs.gr/
http://ebedoklis.pblogs.gr/	http://epirus.pblogs.gr/
http://rinascente.pblogs.gr/	http://artavant.pblogs.gr/
http://lygeri.pblogs.gr/	http://kokkinigrammi.pblogs.gr/
http://eirini.pblogs.gr/	http://mind-games.pblogs.gr/
http://MP3-BOX.pblogs.gr/	http://KOSMO.pblogs.gr/
http://e-syntages.pblogs.gr/	http://behappy.pblogs.gr/
http://reiki.pblogs.gr/	http://lefkosdrakos.pblogs.gr/
http://ethnikososiallistis.pblogs.gr/	http://mousikokouti.pblogs.gr/
http://ladyblue.pblogs.gr/	http://meliladi.pblogs.gr/
http://mariflor.pblogs.gr/	http://xoverga.pblogs.gr/
http://flashforward.pblogs.gr/	http://vres-to-xameno-so0-x.pblogs.gr/
http://1x2.pblogs.gr/	http://pax-americana.pblogs.gr/
http://lifeandstyle.pblogs.gr/	http://agrinio.pblogs.gr/
http://Helthionistas.pblogs.gr/	http://poularakis.pblogs.gr/
http://greekmusic.pblogs.gr/	http://epagelmatikos-kosmos.pblogs.gr/
http://592e.pblogs.gr/	http://Oxford-liberty-vs-fr.pblogs.gr/
http://louis-georgiou.pblogs.gr/	http://iliosnet.pblogs.gr/
http://girevo-ton-diogeni.pblogs.gr/	http://staorthia.pblogs.gr/
http://athivoles.pblogs.gr/	http://dim8kavala.pblogs.gr/
http://synanthseis.pblogs.gr/	http://this-star.pblogs.gr/
http://katinomania.pblogs.gr/	http://bill-taxi-rick.pblogs.gr/
http://ampfictyonas.pblogs.gr/	http://regina.pblogs.gr/
http://moriginal.pblogs.gr/	http://realyou.pblogs.gr/
http://dimitristab.pblogs.gr/	http://allagh-fylou-onoma.pblogs.gr/
http://kai-pou-sai-akoma.pblogs.gr/	http://Ophiuchus.pblogs.gr/
http://anthropos.pblogs.gr/	http://atheato.pblogs.gr/
http://TOOLS.pblogs.gr/	http://oap.pblogs.gr/
http://loveblog.pblogs.gr/	http://xrono.pblogs.gr/
http://Salonica.pblogs.gr/	http://poeticlife.pblogs.gr/
http://ADRAXETHNHMERA.pblogs.gr/	http://apeirotv.pblogs.gr/
http://astrojoggi.pblogs.gr/	http://tesi.pblogs.gr/
http://blackjack.pblogs.gr/	http://anesperon-fos.pblogs.gr/
http://shipnew.pblogs.gr/	http://frank0-pathfimder-gr.pblogs.gr/
http://zeidoron.pblogs.gr/	http://STEFANIA-KARAKATSANI.pblogs.gr/
http://Animal-free-working.pblogs.gr/	http://environmental.pblogs.gr/
http://Mr-Sunshine.pblogs.gr/	http://msNikaki.pblogs.gr/
http://chastitywolf.pblogs.gr/	http://HLIAS-FYLLAS.pblogs.gr/
http://kartson.pblogs.gr/	http://liumingzhu.pblogs.gr/
http://nafpaktos.pblogs.gr/	http://TSIMVRAKIDIS.pblogs.gr/
http://panikostv.pblogs.gr/	http://aridaia-nea.pblogs.gr/
http://funny-video.pblogs.gr/	http://chantzaras.pblogs.gr/

http://Free-Images.pblogs.gr/	http://rafting-house.pblogs.gr/
http://saita.pblogs.gr/	http://dakedikaiosinis.pblogs.gr/
http://FROSYNH-pathfider-gr.pblogs.gr/	http://elladapatridamou.pblogs.gr/
http://StoupasPainting.pblogs.gr/	http://theatriki.pblogs.gr/
http://first.pblogs.gr/	http://videoplasies.pblogs.gr/
http://mitsipik.pblogs.gr/	http://SHOLIASTHS.pblogs.gr/
http://lookafter.pblogs.gr/	http://elisavet-georgiou.pblogs.gr/
http://anazitontas.pblogs.gr/	http://n4n4.pblogs.gr/
http://AboutCelebrities.pblogs.gr/	http://olathessaloniki.pblogs.gr/
http://bayern.pblogs.gr/	http://down.pblogs.gr/
http://aop.pblogs.gr/	http://KONEX.pblogs.gr/
http://etinos.pblogs.gr/	http://almanak.pblogs.gr/
http://math.pblogs.gr/	http://fags.pblogs.gr/
http://exarchia.pblogs.gr/	http://dekaentoles.pblogs.gr/
http://Sticker.pblogs.gr/	http://belle.pblogs.gr/
http://argeios.pblogs.gr/	http://ladybugAll.pblogs.gr/
http://logos1.pblogs.gr/	http://funny-blog.pblogs.gr/
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http://Aiolos.pblogs.gr/	http://sexyworld.pblogs.gr/
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http://piranhasbite.pblogs.gr/	http://dagoto.pblogs.gr/
http://zalades1234.pblogs.gr/	http://to-kafeneio.pblogs.gr/
http://my-crete.pblogs.gr/	http://xoreuontas.pblogs.gr/
http://katerinii.pblogs.gr/	http://aktinovolies-sos.pblogs.gr/
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http://lalio20.pblogs.gr/	http://VASILIS.pblogs.gr/
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http://ordoabchao.pblogs.gr/	http://vlife.pblogs.gr/
http://doiteasy.pblogs.gr/	http://Linteris.pblogs.gr/
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http://wave.pblogs.gr/	http://bal.pblogs.gr/
http://photorat.pblogs.gr/	http://norm.pblogs.gr/
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http://phaistonian.pblogs.gr/	http://nemea.pblogs.gr/

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http://now-and-then.pblogs.gr/	http://artandcolour.pblogs.gr/
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http://san-simera.pblogs.gr/	http://battery.pblogs.gr/
http://school.pblogs.gr/	http://fotografizontasfotoe.pblogs.gr/
http://kosvas.pblogs.gr/	http://ashley-tisdale-fans.pblogs.gr/
http://vampirediaries.pblogs.gr/	http://mpamias.pblogs.gr/
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http://cpt.pblogs.gr/	http://World-press.pblogs.gr/
http://Wellness-Health-and.pblogs.gr/	http://FcPanathinaikos.pblogs.gr/
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http://toxromatoufegariou.pblogs.gr/	http://CIA-angel.pblogs.gr/
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http://elenablog.pblogs.gr/	http://aek-athens.pblogs.gr/
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http://e-thesprotia.pblogs.gr/	http://ian.pblogs.gr/
http://MOURLIA.pblogs.gr/	http://avoncosmetics.pblogs.gr/
http://womanvsman.pblogs.gr/	http://NikosNinos.pblogs.gr/
http://nea-kifisia-adames.pblogs.gr/	http://hart-speaking.pblogs.gr/
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http://salamsas.pblogs.gr/	http://tnsite.pblogs.gr/
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http://blogjob.pblogs.gr/	http://Kuthira-photography.pblogs.gr/

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http://PsyxiatroZ.pblogs.gr/	http://fashiondiary.pblogs.gr/
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http://fotostigmes.pblogs.gr/	http://idiaitera-agglika.pblogs.gr/
http://Anatropi.pblogs.gr/	http://logosantilogos.pblogs.gr/
http://thessaly-football.pblogs.gr/	http://dellbatterysony.pblogs.gr/
http://Live-Radio.pblogs.gr/	http://Eshopherbalife.pblogs.gr/
http://abyssos.pblogs.gr/	http://weekdeals.pblogs.gr/
http://xtapodi.pblogs.gr/	http://GADALA-ORIENTAL-BELL.pblogs.gr/
http://BlackCatsGaming.pblogs.gr/	http://katanalotis-sumperif.pblogs.gr/
http://viva.pblogs.gr/	http://i-diadromi.pblogs.gr/
http://galini.pblogs.gr/	http://kremastari.pblogs.gr/
http://giatietsi.pblogs.gr/	http://mountain-bike.pblogs.gr/

http://MONOPATI.pblogs.gr/	http://nikeair2011.pblogs.gr/
http://duke88.pblogs.gr/	http://sparosweb.pblogs.gr/
http://hlektronikotsigaro.pblogs.gr/	http://chinamimi.pblogs.gr/
http://fungi.pblogs.gr/	http://sisifos.pblogs.gr/
http://kpdiodos.pblogs.gr/	http://weddingdress.pblogs.gr/
http://blac-and-wait-color.pblogs.gr/	http://jobboerse.pblogs.gr/
http://aitheras.pblogs.gr/	http://home-more.pblogs.gr/
http://greekhistoryevents.pblogs.gr/	http://mbt001.pblogs.gr/
http://agiabarbara.pblogs.gr/	http://scormaripeatosoft.pblogs.gr/
http://lefkoma-enos-magou.pblogs.gr/	http://ERITHROLEUKANEA.pblogs.gr/
http://jupiter.pblogs.gr/	http://mbt-shoes-beauty.pblogs.gr/
http://epppo.pblogs.gr/	http://xiaqinghua1989.pblogs.gr/
http://spiti-diakosmisi.pblogs.gr/	http://ex-oloklhrou.pblogs.gr/
http://apokardias.pblogs.gr/	http://toryburchflipflopsu.pblogs.gr/
http://music-is-the-answer.pblogs.gr/	http://my-avon-store.pblogs.gr/
http://chocolate-with-raisi.pblogs.gr/	http://betonia-stoiximatos.pblogs.gr/
http://e-aek.pblogs.gr/	http://dimiscon.pblogs.gr/
http://BeatTheBooks.pblogs.gr/	http://Simple-Is-Beautiful.pblogs.gr/
http://depi.pblogs.gr/	http://spairus.pblogs.gr/

I. Appendix: Populis Blog Data – Case Study V

Blog URL	Blog URL
00hell.blog.co.uk/	alternativa.blog.com.es/
01102006.blogs.fi/	alternativesdenken.blog.de/
1234maus.blog.de	amantelatino.blog.de/
123maus.blog.de/	americanfootballbyhexle.blog.de/
123residenceretraite.blog.fr/	americanparano.blog.fr/
2012kunstwinder.blog.de/	amigojaime.blog.com.es/
21stcenturyfox.blog.de/	amigosdetdg.blog.com.es/
29bc87.blog.fr/	amore14.blogs.it/
7uhr15.blog.de/	Amridge-Village-Blog.blog.co.uk/
80er-jahre.blog.de/	and-one-blog.blog.de
8acht8.blog.de/	andersTV.blog.de/
abcypsilon777.blog.de/	anderyy.blog.de/
abcypsilon777.blog.de/	andheu.blog.de/
Abelard36.blog.de/	Andre38.blog.de/
abgeltungssteuer.blog.de/	andrea62.blog.de/
abgeltungssteuerverhinderer.blog.de/	andreasglock.blog.de/
abgeltungsteuervermeider.blog.de/	andreassozpol.blog.de/
abgeordnet.blog.de/	android.blog.de/
abo-sharing.blog.de/	anecdote.blog.fr/
absolute.blog.de/	angela-planert.blog.de/
abstechen.blog.de/	angelsmagazine.blog.de/
abumasa.blog.de/	angelxofxblood.blog.de/
abzocke.blog.de/	angenehmer.blog.de/
accept.blog.de/	anitaisiris.blog.de/
acquerelli.blogs.it/	anleitungen.blog.de/
adamantixx.blog.co.uk/	annamarias.blog.de/
adrenalinapura.blogs.it/	Anne-Goldammer.blog.de/
Advaita-Zentrum.blog.de/	annesideenreich.blog.de
Advaita.blog.de/	annieundthomasbauen.blog.de/
adventkalender.blog.de/	annikabryn.blogs.se/
adventskalender2008.blog.de/	anonymousunderfucked.blog.de/
afemaleguest.blog.co.uk/	anroroju.blog.com.es/
afrablues.blogs.it/	antisilvio.blogs.it/
afri-russ-archiv.blog.de/	antiterror.blog.de/
afrikareisen.blog.de/	ao-lai.blog.de/
aipotu.blog.de/	appenafinitodileggere.blogs.it/
aitempidelnulla.blogs.it/	apurocorazon.blog.com.es/
aixicon.blog.de/	ar-juna.blog.de
ajnewsnetwork.blog.co.uk/	aranciablu.blogs.it/
ajuna-eneska.blog.de	arbeit-swr.blog.de/
alacritas.blog.de/	archaeologie-news.blog.de/
aladygma-marketing.blog.de/	archipelago-of-truth.blog.co.uk/
aladygma.blog.de/	area-136.blog.co.uk/
aladygmaclues.blog.de/	art-etc.blog.fr/
albertknorr.blog.de/	arthur-schopenhauer.blog.de
aliasnimue.blog.de	artistway.blog.de/

allerbarmer.blog.de/	as-casual.blog.de/
allerhandlei.blog.de/	ascelliance-retraite.blog.fr/
allesfreddyoderwas.blog.de/	askoranswer.blog.co.uk/
allesleser.blog.de	Astrid-Bergmann.blog.de/
allet-ohne-schminke.blog.de/	Astrid-Bergmann56.blog.de/
alltagsbilder.blog.de/	astroinfo.blog.de
aloharoadie.blog.de	astrolabioquaderni.blogs.it/
alphamin.blog.co.uk/	atemmeer.blog.de
bellydancer.blog.de/	atheistnews.blogs.fi/
Belze74.blog.de/	atonal1.blog.de
benimnetz.blog.de	audaspace.blog.de
benrath.blog.de/	aufeinmalallesanders.blog.de/
BenTheBig.blog.de/	augenauf.blog.de/
bergische-aussenstelle-hk.blog.de/	augenblickmal.blog.de
BergischGladbach.blog.de/	arquitecto.blog.co.uk/
berlindurchmeineaugen.blog.de/	augenundinse.blog.de/
berliner.blog.de/	Ausblicke-Einblicke.blog.de/
berlinpoetry.blog.de/	ausdemlebenderlangeweile.blog.de/
berlinradler.blog.de/	auswandern-nach-spanien.blog.de/
berlinstreetart.blog.de	authenticwoman.blog.co.uk/
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bertolauro.blogs.it/	auverdose-racing63.blog.fr/
besame.blog.co.uk/	auweia.blog.de/
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besucherin.blog.de/	avclub.blog.co.uk/
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beyond-mailit.blog.de/	awieaussendienst.blog.de/
biancas-geschichte.blog.de/	baby-hase.blog.de/
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bichitos.blog.com.es/	baby-max.blog.de/
bierkult.blog.de/	babylaeuftfort.blog.de/
big-brother-news.blog.de/	backpain.blog.co.uk/
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bilderstube.blog.de/	bandasonora.blog.com.es/
bin-st.blog.de/	Banner.blog.de/
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