



Universität Hamburg
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UNIVERSITÄT ZU LÜBECK



DATABASING ON DEMAND

HEURIST AS A PLATFORM FOR DATA-DRIVEN STORYTELLING

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OUTLINE

-
1. Motivation
 2. Heurist – a database management system for the Humanities
 3. Databasing on demand for a large data set
 4. Building information systems for publishing research data

MOTIVATION

Research data



Palm leaves with text in Sinhalese from Sri Lanka (ca. mid-20th century). Private collection.

- Research data are stored in different formats.
- How to visualize data in a human-legible way?
- How to store large data sets for publishing in short time?

MOTIVATION



```
<ab>  
<lb n="1"/>  
Πλανκίαν Μάγναν  
<lb n="2"/>  
Ἀκυλλίαν θυγατέρα Ἴου  
<lb n="3" break="no"/>  
λίου Σεουήρου καὶ  
<expan>  
  <abbr>Κλαυ</abbr>  
  <ex>δίας</ex>  
</expan>  
<lb n="4"/>  
Ἀκυλλίας, τὴν ἐγ βασιλέ  
<lb n="5" break="no"/>  
ων, ἡρωίδα, ὁ δῆμος ὁ Ἄν  
<lb n="6" break="no"/>  
κυρανῶν τὴν θυγατέρα τῆς  
<lb n="7"/>  
μητροπόλεως.  
</ab>
```

machine-readable format

EpiDoc-Stylesheets¹

- 1
- 2
- 3
- 4
- 5
- 6
- 7

human-readable format

Πλανκίαν Μάγναν
Ἀκυλλίαν θυγατέρα Ἴου
λίου Σεουήρου καὶ Κλαυ(δίας)
Ἀκυλλίας, τὴν ἐγ βασιλέ
ων, ἡρωίδα, ὁ δῆμος ὁ Ἄν
κυρανῶν τὴν θυγατέρα τῆς
μητροπόλεως.

HEURIST - A DATABASE MANAGEMENT SYSTEM FOR THE HUMANITIES



Search

Simple text searches and classification of an object by assignment of several independent terms (faceted searches) to analyze research data.

E.g.: imperial → 1st cent. CE, 2nd cent CE

Extension and customization

Data structures may change during the project work or extensions may be necessary. A tool should support later changes or extensions in a simple way.

Viewing and Publishing

The data should also be made available to other users.

Collaboration

Research is supported when there is an environment for sharing and collaboration with other users through defined working groups and ownership at the dataset level.

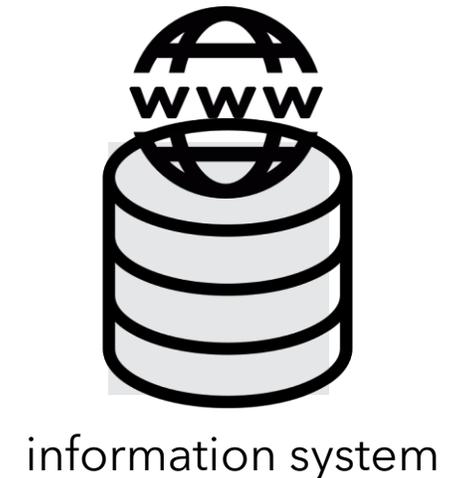
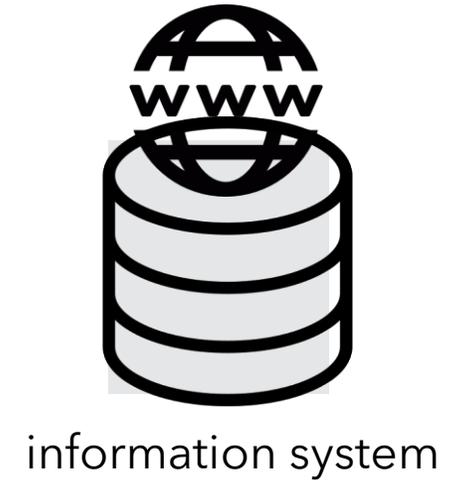
Integration

Simple Integration of data in different formats (e.g. CSV) from different sources or projects

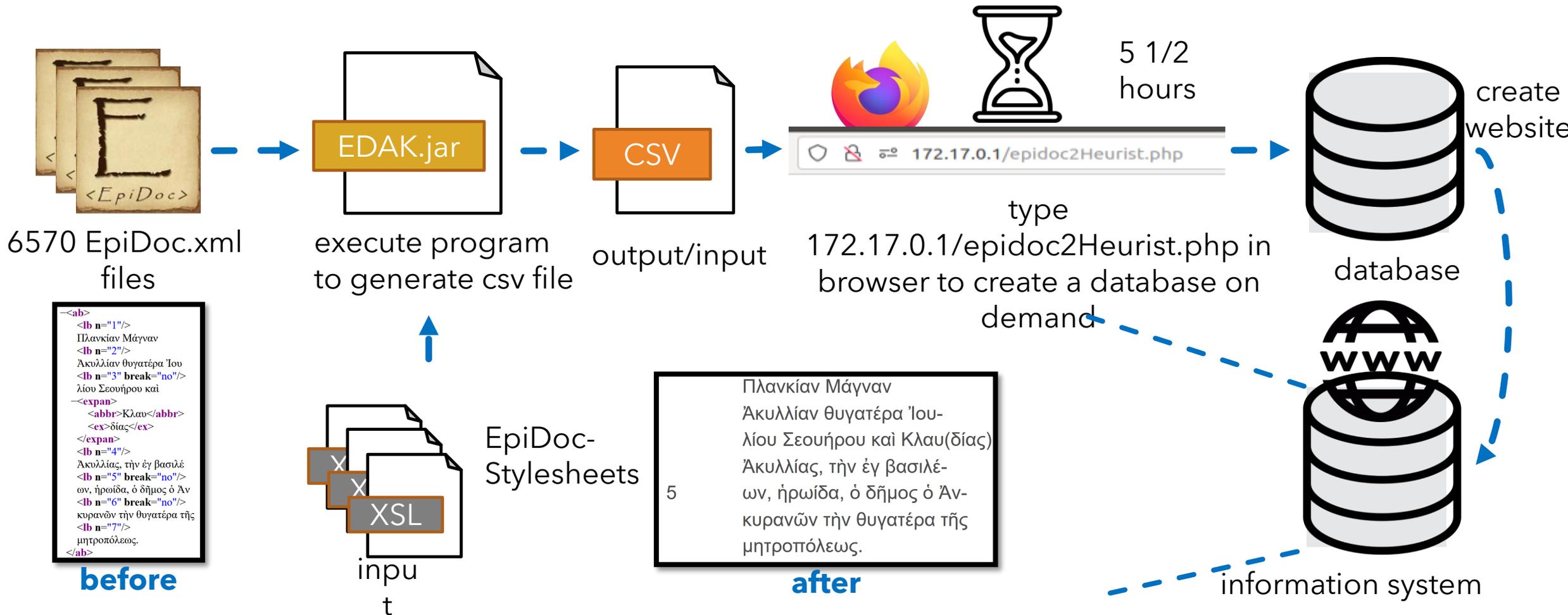
DATABASING ON DEMAND FOR A LARGE DATA SET



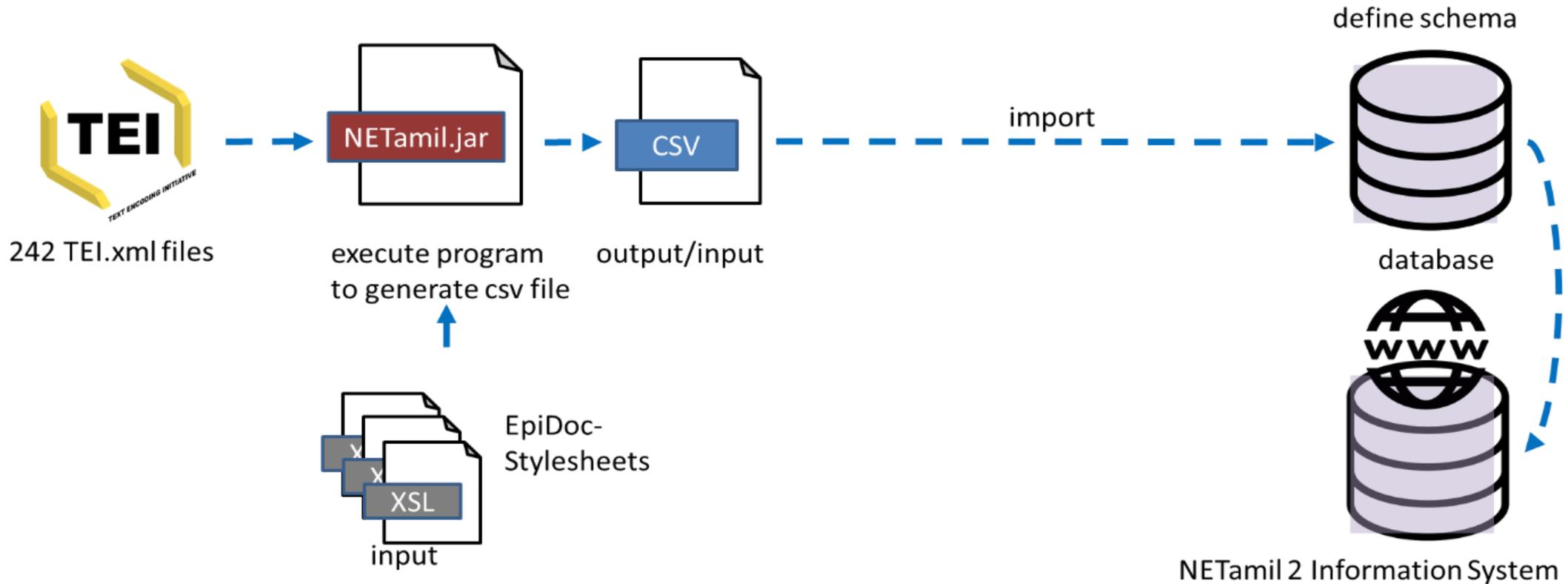
- Takes a lot of time
- High effort to add data sets to a database
- Integration of additional data sets from other projects, which are also associated with high effort
- Representation of data in required coding (e.g. the Leiden Conventions)



DATABASING ON DEMAND FOR A LARGE DATA SET



DATABASING ON DEMAND FOR A LARGE DATA SET



Storage of data in a short time

BUILDING INFORMATION SYSTEMS FOR PUBLISHING RESEARCH DATA

EDAK_Template.tpl 4.17 KIB

```
1 <html>
2
3 {*------*}
4 {foreach $results as $r} {* Start records Loop, do not remove *}
5 {$r = $heurist->getRecord($r)}
6 {*------*}
7
8 {if ($r.recTypeID=="70")}{* Description *}
9
10 <h1 style="border-color: #00a9ff;
11 background-color: #e4f8fd;{* #86cde8 *}
12 border-width: 5px;
13 border-style: solid;
14 color: Black;
15 font-family: arial, helvetica, sans-serif;
16 font-size: 18px;">{$r.f1181}{*Title*} </h1>
17
18 {if ($r.f731)}{* Image *}
19 {wrap var=$r.f731_originalvalue dt="file" width="300" height="auto" auto_play="0" show_artwork="0"}
20 <br/>
21 {/if} {* Image *}
```

- The Heurist web designer for creating project specific layouts
 - Web editor
 - Supported: PHP, HTML

BUILDING INFORMATION SYSTEMS FOR PUBLISHING RESEARCH DATA



SEARCH MAPS PROJECT STAFF ABOUT

Search

Search everything

Edition

Corpus

AM

Andersen - Cumont- ...

Anderson

Atalay

Bakir-Barthel - Müller

show more

Inscription Type

n = 14

- AM 20 (1895) 498
- AM 21 (1896) 118
- AM 21 (1896) 118
- AM 22 (1897) 230
- AM 22 (1897) 482, Nr. 1
- AM 22 (1897) 483, Nr. 2
- AM 22 (1897) 483, Nr. 3
- AM 22 (1897) 483, Nr. 4
- AM 22 (1897) 484, Nr. 5
- AM 23 (1898) 498, Nr. 2
- AM 24 (1899), Nr. 5
- AM 25 (1900) 126
- AM 25 (1900) 126, Nr. 2
- AM 8 (1881) 287, Nr. 2

AM 20 (1895) 498

Region: Lydia, Central-
Place: Regio inter Magnesiam et Sardem [open map](#)
Inscription type: Honorary Inscriptions
Date: Unknown

Text:

Οι συνδιαπρήσαντες τὸ χωρίον ἐσ-
τεφάνωσαν τὸν στρατηγὸν
Ματρεῖαν Μανοδότου χρυσαῖν
στεφάνωιν.

Commentary:

Ehreninschrift für den Strategen Matreas, Sohn des Manodotos, von namentlich unbek. Soldaten einer Befestigungsanlage ("syndiateresantes to chorion"), 3. / 2. Jh. v.Chr., gef. bei Kemalpaşa (früher Nif, antikes Nymphion), am Berg Akkaya, *AM 20 (1895)498, **Keil - v.Premmerstein, Bericht III (1914) 6 (Zz. 1 u. 3 - 4).

Findspot: Kemalpaşa (Nif)
Modern location: Unknown

Bibliography:

Mitteilungen des Deutschen Archäologischen Instituts, Athenische Abteilung

Authority: Epigraphische Datenbank zum antiken Kleinasien - Universität Hamburg
Revision/changes: 2016-01-19T15:21:59.427Z 2016-01-19T15:21:59.427Z
[open in a new window](#)

OVERVIEW SEARCH STAFF

NETamil 2 Critical E...

Search everything

Edition

Text

html

Apparatus

n = 242

- AN 1/1
- AN 1/2
- AN 10/1
- AN 10/2
- AN 100/1
- AN 100/2
- AN 101/1
- AN 101/2
- AN 102/1
- AN 102/2
- AN 103/1
- AN 103/2
- AN 104/1
- AN 104/2
- AN 105/1
- AN 105/2
- AN 106/1
- AN 106/2

AN 100/2

Tamil Poem

காரையுற்றமைந்த வார நீவிப்
புரையப் பூண்ட கோதை மார்பினை
நல்லகம் வடுக்கொள் முயங்கி நீவந்
தெல்லின்று பெயர்த லெமக்கமா ரினிதே
பெருந்திரை முழக்கமோ டியக்கவிந் திருந்த 5
கொண்ட விரவி னிருங்கடல் மடுத்த
கொழுமின் கொள்பவ ரிருணீந் கொண்குட
ரோடாப் பூடகை வேந்தன் பாசறை
யாடியல் யானை யணிமுக்க தசைத்த
யோடை யொண்குட ரொப்பத் தோன்றும் 10
பாடுநந்த தொடுத்த கைவண் கோமான்
பரியுடை நற்றேர்ப் பெரியன் விரியிணர்ப்
புன்னையங் கானற் புறந்தை முன்றுறை
வம்ப [நா]ரை யினொலித் தன்ன
வம்பல் வாய்த்த தெய்ய தண்புலர் 15
வைகுறு விடியுப் போகிய வெருமை
நெய்தலம் புதாமலர் மாந்துங்
கைதையம் படப்பெயம் மழங்க ளாரே.

Transliteration

arai ~utt amainta ~āram nivi
puraiya+ pūṇṭa kōtai mārpigai
nal +akam vaṭu+ kola muyaniki nī vant'

Visualization of data in a human-readable format





Thank you for your attention.



Acknowledgment

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