

Tiipii3

FSD's New Tool to Assist in Operative Data Management and Archiving Process

Objectives

Operative database

- Guides and documents the everyday workflow (ERM)
- OAI and GDPR compliant from data acquisition to publishing, e.g.
 - Personal data processing and Deposition agreements
 - Management of data processing, archived files and dissemination
 - Descriptive metadata, long-term preservation metadata, series and publications
 - Information on events, contacts, customers, projects, correspondence, identified datasets

Centralised reporting

- Gathers data from several sources
- Useful for both internal and external reporting
- Collects current statistics and time series

Replaces the old system

- From monolith to microservices
- Allows greater automation
- Automated installation with Ansible

Technical Details

Front-end

- Built with Python 3 using Pyramid web framework
- Jinja2 as templating language
- Responsive front-end using Foundation
- Authentication with Shibboleth

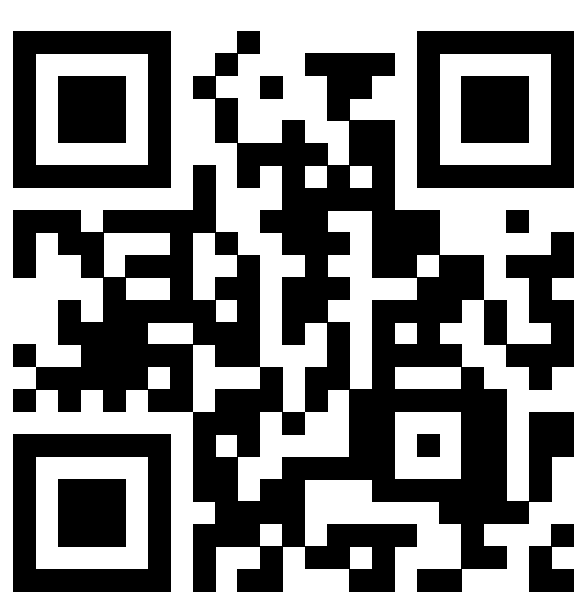
Back-end

- Python 3 using Tornado web framework
- RESTful APIs
- Marshmallow for input validation
- PostgreSQL + SQLAlchemy and MongoDB for data persistence
- AMQP messaging with RabbitMQ
- Search with Apache Solr

Reporting

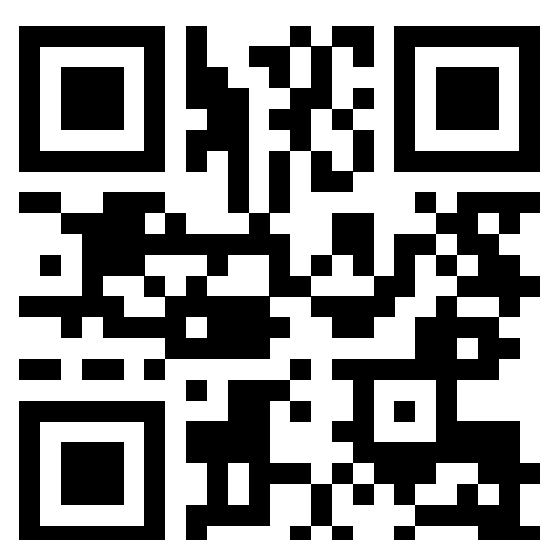
- Data pumps for gathering statistics
- A microservice for saving and serving the data
- Driven by AMQP messages and scheduled cron jobs

Videos of Selected Features



[Advanced file management](#)

[Dynamic search](#)



[Powerful aggregated reporting](#)



FINNISH SOCIAL SCIENCE
DATA ARCHIVE

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