Developing a digital repository infrastructure for sharing digital resources in the teaching education community

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The main goal

- To establish a highly visible and functional portal with advanced brokerage services that will provide personalised access to a wide-range of Teacher Education (TE) content.
- The system is not devoted to the digital assets themselves, but to the metadata used to describe those digital assets.
System architecture overview
Metadata (1)

- The central repository contains metadata representing resources from the Teacher Education (TE) domain.
- These metadata are represented in Common Metadata Model (CMM) format, expressed as an application profile of LOM.
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Data capture

- System collect metadata from various sources: partners’ local metadata repositories and external repositories or additional sources containing such metadata.

- The ARIADNE Harvester is used to harvest all these sources of metadata using the OAI-PMH Protocol.

- Harvested records are published in Fedora via Simple Publishing Interface (SPI).
Data indexing, searching and browsing

- The Fedora Generic Search Service is used for indexing Fedora FOXML records, and text data streams (DC, RELS-EXT, and CMM datastreams)

- Solr plugin is used for indexing documents via HTTP POST interface of Solr
Front-end

- Drupal based front-end providing end-user functionalities like commenting, rating, etc.
- Islandora module allowing Drupal users to view CMM records stored as a digital objects in fedora repository.
References

- Drupal, http://drupal.org/
- Islandora, http://islandora.ca/