Building a WEKO-based institutional repository system - a case example of WOU library

URL

http://weko.wou.edu.my/?action=repository_uri&item_id=448

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BUILDING A WEKO-BASED INSTITUTIONAL REPOSITORY SYSTEM - A CASE EXAMPLE OF WOU LIBRARY

by
WOU WEKO Team

Pre-Symposium Workshop
2nd Regional Symposium on OER: Beyond Advocacy, Research and Policy
Penang, Malaysia
24 June 2014
Overview of WOU WEKO Project

- Project Awareness, Aims & Institutional Repository Setup
- Support & Networking with OERAsia
- Moving forward – Promotion
WEKO Project Awareness

Outcome of the GLOBE-OER Asia Workshop discussion (26 August 2013, Penang – OUJ, UT, OUHK, UPOU, CTI-Ecuador, WOU) – architecture and roadmap of OER Asia federated repositories concept was drafted and sent to all OER Asia members

Open University of Japan (and National Institute of Informatics, Japan) can provide metadata registration/management functions for members without any IR e.g. WEKO database system; this is used for GLOBE Referatory@Japan

More than 200 Japanese universities utilize WEKO as their IR via JAIRO Cloud service

WEKO has the potential for further expansion for GLOBE harvester due to its OAI-PMH functionalities

Expected outcome of the project is to develop an IR and link to OER Asia
Project Aims

To build and run institutional OER repository using WEKO as it has the OAI-PMH and archiving functionalities

To provide a central, easily accessible and easily updateable repository of OER items for harvesting by organisations using OAI-PMH

To promote OER production among our academic staff

To support the OER movement thus participate in OERAsia and GLOBE Harvester network
## Summary of Research Project

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Setting-up a WOU Institutional Repository Using WEKO</th>
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<tbody>
<tr>
<td><strong>Funder</strong></td>
<td>WOU’s Institute for Research and Innovation (IRI)</td>
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<tr>
<td><strong>Project Team Members</strong></td>
<td>Library Director, ITS Manager, Assistant Library Manager (3)</td>
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<tr>
<td><strong>Project Timeline</strong></td>
<td>03 February 2014 – 31 January 2015 (1 year)</td>
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<td><strong>Project Development : Activities</strong></td>
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<td><strong>February 2014</strong></td>
<td>Preliminary discussions with NII &amp; OUJ Trainers, Japan</td>
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<td><strong>3 - 4 March 2014</strong></td>
<td>Organised WEKO Training Workshop (WOU, Penang) <em>(conducted by NII &amp; OUJ Trainers, Japan)</em> – 12 participants - System Librarians from 3 local universities (AeU, UNIMAP, UPM) and WOU ITS+Library staff</td>
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## Research Project Activities

<table>
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<th>Period</th>
<th>Activities</th>
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<tr>
<td>Mid-March 2014</td>
<td>- Installation and setup of WEKO system (ITS)</td>
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<td>- Create users’ profile and review system control management modules (Library)</td>
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<td></td>
<td>- Define index tree, develop metadata fields</td>
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<td>- Analyze existing records metadata for migration, data mapping, create templates, multiple data loading (using SWORD Client for WEKO application), configure webpage user interface and content</td>
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<td>- Manual item registration into various index trees</td>
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<td>- System parameter settings - security control for different level of WEKO users</td>
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<td>- Testing and review techniques and process flows</td>
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<td></td>
<td>- Populate content and configure graphic user interface</td>
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<td></td>
<td>- Design marketing products e.g. Posters, Brochures</td>
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<td>April – May 2014</td>
<td>- Marketing to Malaysian universities for participation in WOU OER Asia project</td>
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<td>- Harvest metadata content to OER Asia/GLOBE</td>
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<tr>
<td>June 2014 - present</td>
<td>- End of project</td>
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</tbody>
</table>
Project Organisation

Advisors
- Prof K Yamaji
  NII (WEKO)
- Prof T Yamada, OUJ
  (OER Asia & GLOBEreferatory@Japan)

Project Leader
- (Library Director)

Team Members
- (IT Manager & Group; Assistant Library Manager)

IT Infrastructure
- Metadata & Content Management
- Harvest to OERAsia - GLOBE

NII = National Institute of Informatics, Japan  
OUJ = Open University of Japan
OER IR Content & Organisation

- **Teaching Courses**
  - Course materials,
  - Learning objects,
  - Reference materials

- **Research Projects**
  - Reports, Papers,
  - Articles, Theses
  - Dissertations by Graduate students

- **School / Department**
Methods of Metadata Content Authoring

- Use of WEKO web authoring application to create metadata content (item type management)
- Use of index tree and item management
- Use of converter application to deposit multiple contents from another platform
Metadata Process Workflows

Registered user creates content (Pre-defined metadata template)

WEKO applies metadata (item type & index tree)

Available on WEKO web

WEKO publishes to web servers

Review/Approve/Reject Content (Chief Administrator)

http://weko.wou.edu.my
Project Significance

Provides online visibility to WOU OER

Encourage sharing and reusing of online learning resources among members of OER Asia and GLOBE

Fills the gaps of technical problems using other open source system
Limitation of English reference manuals – further discussion with NII on developing the manuals
Assuring the quality of online teaching and learning: the case of Wawasan Open University

Quality Assurance

Item type: WOU Research Output

Creator:
Liew Telik Kooi
(e-mail: endyfiew@wou.edu.my)
Teoh Ai Ping

Description:
The dynamic business environment and powerful market forces in the 21st century are challenging leaders at open universities to compete successfully in the global higher education stage. The notion of quality is becoming an important and overriding issue with the paradigm shift in the education landscape due to the rapid penetration of Internet usage. Open universities are experiencing pressure from numerous stakeholders to become more client-focused, particularly in their provision of technology-enhanced education to systematically support the learning experience of open distance learners. In the pursuit of establishing international and national/regional-based quality assurance practices, Asian open universities should pay particular attention to one of the key components within the overall framework that is the...
The image shows a webpage from the Wawasan Open University OER Repository, which is an online collection of the university's Open Educational Resources (OER). The page is mainly in English and contains metadata information for learning objects.

The metadata includes various fields such as title, title in English, language, publication date, keywords, keywords in English, creator, Corporate creator, Subject, Description, Source, and their corresponding input types and metadata names. The output includes Dublin Core and JUnii2 metadata schemes.

The webpage also includes links to other resources and a section about the Wawasan Open University.

In summary, the image represents a metadata page from the OER Repository of Wawasan Open University, detailing various metadata fields and their corresponding input types and metadata names.
Support & Networking with OER Asia

OER Asia is an Asian Forum to share information, views and opinion, research studies and knowledge resources about OER in the Asian Region; virtual community network

This network is collaborating with GLOBE to create a federation of metadata repositories which will provide members with access to metadata on what is available in member’s repositories

Thus, WOU’s building of WEKO-based IR learning objects metadata could ultimately join the OER Asia federated repositories
Framework Model of WOU OER IR with OER Asia and GLOBE

Malaysian’s Institutional Repositories

WOU OER IR

OAI-PMH Harvesting

IRs

http://www.oerasia.org/

OAI-PMH Harvesting

GLOBE Harvesting Metadata
Moving forward – Promotion activities

Examples:

Universiti Sains Malaysia

Asia University

UniMAP

Universiti Putra Malaysia

Universiti Utara Malaysia

OPEN UNIVERSITY MALAYSIA
WEKO Training Workshop (3-4 March 2014, Penang)
THANK YOU!

Q & A

For further information feel free to contact us:

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