



National Information Hub (U-Pustaka)

The national information hub is an implementation for Perpustakaan Negara Malaysia (PNM). It involved the development of a new National Union Catalogue (NUC) and a Digital Repository System. It also includes the implementation of RFID services for four state libraries (Melaka, Kedah, Perlis and Terengganu) integrating to U-Pustaka and the digitalisation of 1.7 million pages for the repository system.

Overview

The development of the U-Pustaka as a National Information Hub is to create knowledge-based economic society through the use of digital library services. The system is also to create a unique user experience to access both physical (books) and digital content.

Features

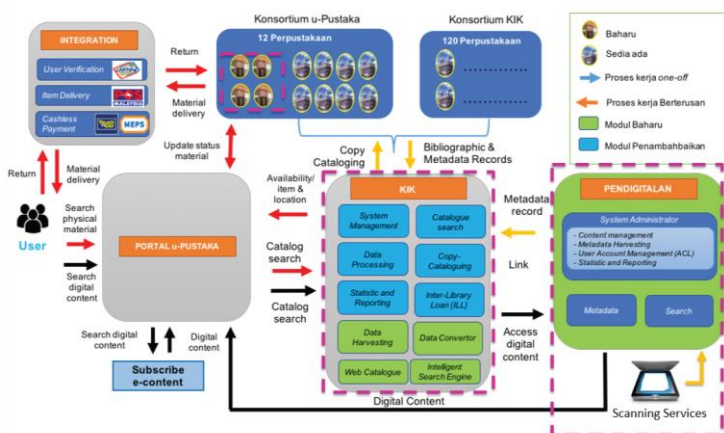
U-Pustaka comprises the following areas:

- **PNM Data Centre**
Supply, deployment, testing and commissioning of hardware at PNM Data Centre in KL.
- **National Union Catalogue System**
Development, testing and commissioning National Union Catalogue System.
- **Digital Content Repository System (MyRepositori)**
Development, testing and commissioning of MyRepositori.
- **Expanded Consortium Libraries**
Implementation of RFID tracking system at four state public libraries – Kedah, Perlis, Terengganu and Melaka.
- **Digital Content**
Digitisation of 1.7 million pages of content.
- **Data Migration and Importation**
Data migration for existing NUC to new NUC and import of existing 2000 DVD content into NAS storage.

Technology Benefits

The main impacts of U-Pustaka are:

- **Richer Experience through Digitised Content**
Visitors to the national library can now enjoy a richer experience through digitised content in addition to traditional print books.
- **Cataloguing and Unified Search**
The development of the national union catalogue enable cataloguing and unified search for both physical and digital books.
- **Tracking of Loaned and Returned Books**
RFID is used to track the location of books in four state libraries which is also integrated into U-Pustaka.



U-Pustaka overall architecture

Technology Summary

U-Pustaka

A national information hub which is an implementation for Perpustakaan Negara Malaysia (PNM).

Industries: Government, Education

Features

- PNM data centre
- National union catalogue
- Digital content repository system (MyRepositori)
- Expanded consortium libraries
- Digital content
- Data migration and importation

Technology Benefits

- Richer experience through digitised content
- Cataloguing and unified search
- Tacking of loaned and returned books

MIMOS Platforms and Applications

Platform	a. Mi-Clip (Intelligent Web Clipper Platform) b. Mi-BIS (Business Intelligence Suite) c. Mi-Morphe (Data Cleansing and Migration Tool) d. Mi-UAP (Unified Authentication Platform) e. Mi-ARMC (Authorisation and Resource Management Component)
Application	a. MyRepositori Application b. NUC Application

NUC Features

Data Harvesting	• Auto harvesting metadata from 132 libraries and integration with local Library Management System
Statistics & Reporting	• Dashboard reporting for catalogue update • Feedback tools to the libraries on IT metadata issues
Data Converter	• Metadata compliance validation and conversion
System Management	• User Access Management (library consortium)
Data Processing	• Cataloguing Workflow system and approval process
Catalogue Search	• Unified search engine for both physical or digital book or content (i.e. Google Scholar)
Intelligent Search Engine	• Enable search results to provide results from available Open Web Store • Recommendation system
Web Catalogue	• Application for libraries not having LMS to upload book catalogue
Copy Catalogue	• Enable respective consortium libraries to download NUC catalogue for book stocking
Inter-Library Loan	• Inter-Library Loan between Consortium Libraries

MyRepositori Features

Content Digitalisation	• Content scanning 1.7 million pages, watermarking in TIFF, and OCR text PDF and JPEG format • Metadata creation – Dublin Core to MARC21
Content Management	• User access and content management system • Workflow system for digital content cataloguing and approval process
Content Search	• Content search engine • Enable preview of user's selected 10 pages • Full content access for internal users
Statistics & Reporting	• Dashboard reporting