



**OPEN SOURCE CONTENT MANAGEMENT
SOLUTION FOR A LEADING PUBLISHER
OF **ENCYCLOPEDIAS AND DICTIONARIES****



➔ Background

The client is a major publisher of several encyclopedias and dictionaries of common vocabulary in European languages, and is well-known for its thorough and accurate content. Its top-tier historical, geographical, and lexical publications require frequent updates to accommodate a constantly changing cultural and linguistic landscape. Supplements to the main publications include exercises, activities for children, and thematic representations.

C M S CONTENT MANAGEMENT SYSTEM



Open source content management solution for a leading publisher of encyclopedias and dictionaries



➔ Business Need

With more than 15 different, constantly updating publications, the client had disparate hosting platforms, various kinds of storage and retrieval systems, and authors/editors adopting their own styles for creating content. The client hired Lumina Datamatics to develop and implement a standard workflow for authoring and managing the content.





→ Solution

Lumina Datamatics developed a user-centric design with a customized workflow, created with a suite of open source tools to author and manage the content. The new architecture stack comprised GUI-based content authoring with TEI standards for encoding the data, which suited the type of the content. Drupal, a PHP-based, open source CMS, was deployed to host the content. Solr was deployed as a search platform to resolve stringent search features across multiple publications. MySQL database was used to store data in the back end.

→ Design objectives

- The client's encyclopedias and dictionaries evolved separately over time. As a result, there was no consistent, structured approach towards the development, review, and maintenance of the content.
- The client wanted to publish a small portion of the content for free, and the rest as paid content through user-customized plans.
- A lack of structure to the storage of the content had rendered search and navigation ineffective.
- The UI/UX for each publication was different, and the suite of products lacked consistent branding.
- The content was not user-friendly on mobile devices.





→ Key Features

- Content Management System uses Drupal 7 XML ingestion capabilities for individual file upload or bulk ingestion.
- Staging server allows administrators to review and approve publication before it goes live. Role-based users security framework.
- Faceted search and indexing using Solr 4 that allows simultaneous search of multiple searchable resources.
- Shopping cart for users to purchase paid content.
- Customizable presentation layer for sales and marketing to highlight their new publications.
- Web analytics to show the distribution of users accessing the portal, revenues etc.

→ Benefits

- Integrated platform for Authoring, Storing, and Distributing content.
- End-to-End standard-based Open Source implementation reduces the licensing, maintenance, and upgrade costs.
- The platform is optimized for handling high-volume web traffic and is scalable to accommodate future publications.
- Rich document parsing and validating articles that go into the CMS.
- Multi-platform accessibility.
- Flexible to accommodate standard based structured XML data.



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