



Dynamic Content Builder for a Learning Management System using Full Stack Technologies

Digital
Services

Success Story

Client Status Quo

Client is an education management organization with different lines of learning and development services. In order of their service lines in academic education programs, behavior assessment programs and general skills training, the client sought to extend their services for users to avail learning programs with a technology powered experience.

The client required to develop a platform, a learning management system, to curate content / courses from potential providers, establish learning paths and facilitate an engaging user experience. The key challenge to be addressed was to create a flexible platform for different ranges of content consumption (for custom vendor needs).

Business Requirements

- Design and Develop a framework for content management that is SCORM Compliant.
- Build a professional portal with comprehensive features for partners/ collaborators to build and manage training, assessments and learning material.
- Provision for configurable administrative functions to centrally manage users, content and reports.
- Build a Learning Analytics Module.

Technical Challenges

- Seamless content synchronization (from backend to front end use).
- Support various course content formats without draining the performance of the portal.
- Content privileges and dynamic access control.
- Content availability: Quick and suitable search functionality.
- eCommerce requirements (buy and sell courses).

Solution Highlights

- Key features developed
 - Integrated partner/collaborator onboarding (User Management Console).
 - Courses and Content Management – course set up, assessments and tracking performance.
 - Group based content management.
 - Assessment management with the ability to track progress and recommend learning paths.
 - Learning Analytics.
- Architected a flexible framework that allows the LMS to integrate with third party services (Clever, Google Classroom integrations etc.).
- Single Sign on and Social Integrations for universal access to the modern users.

Application

LMS Portal

Services Offered

Full Stack Development

Domain

e-Learning

Tools

Web Services, Angular, Apache Solr

Key Highlights

- Developed a flexible Learning Management System (LMS) to ease the distribution, operations and management of content between providers / facilitators and learners
- The platform is developed with inclusive features, role-based UI, indexed content search, third party services integration enabled, ecommerce cart and payment integration

- Implemented Solr Search for advanced full text search capabilities and real time indexing.
- Data Security enabled.
- Course cart implementation and Payment Integrations.

Business Impact

The outcome is a robust and scalable portal with 100% requirement translation into a platform that encompasses the goals of continuous learning.

- High Usability: Role based UI; Easy access and navigation to content.
- Increased adoption and immediate engagement of about 20% in first few weeks of release.
- No maintenance: The platform developed was thorough in serving the requirements for future.
- Stable platform: Zero functional issues in production.



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