E-Learning
Case Study

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

Client Overview

The 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 and devices.

Business Requirements

- Seamless content synchronization (from backend to frontend use) and support various course content formats without draining the performance of the portal.
- Facilitate content privileges and dynamic access control & enable content availability: Quick and suitable search functionality.
- Implement comprehensive features & eCommerce requirements (buy and sell courses).

Indium Solution

- The implemented solution included the following features:
  - 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 is SCORM compliant to allow 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.
- Implemented Solr Search for advanced full text search capabilities and real-time indexing.
- Enabled Data Security, 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.

Tools

ANGULAR **Solr** **Webservices**