indium
Make Technology Work
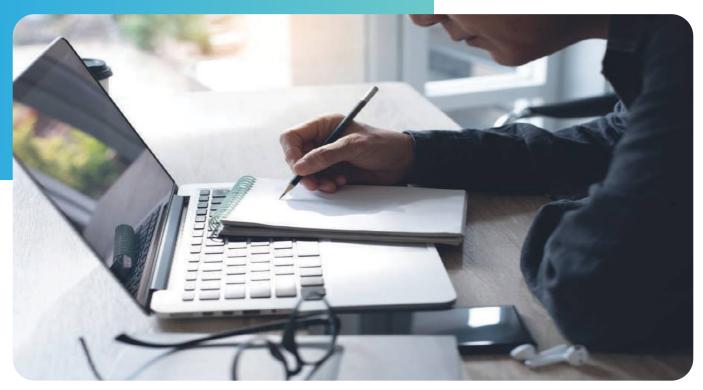

DYNAMIC CONTENT BUILDER FOR A LEARNING MANAGEMENT SYSTEM USING FULL STACK TECHNOLOGIES

PROJECT OVERVIEW

The client needed a platform, or learning management system, to create learning paths, curate content and courses from potential providers, and support an enjoyable user experience. The main challenge was to develop a flexible platform for various types of content consumption (for specific vendor needs).

CLIENT DOMAIN

EdTech

SOLUTION DELIVERED

Application Development

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

ABOUT CLIENT

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.
- Seamless content synchronization (from backend to front end use).
- Support various course content formats without draining the performance of the portal.
- Ensure content privileges and dynamic access control.
- Content availability: Quick and suitable search functionality.
- Implement Solr Search for advanced full text search capabilities and real time indexing.
- Enable Data Security.
- Carry out course cart implementation and Payment Integrations.

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.

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.

TECH STACK

Web services

ABOUT INDIUM

Indium is a Digital Engineering Services leader and Full Spectrum Integrator that helps customers embrace and navigate the Cloud-native world with Certainty. With deep expertise across Applications, Data & Analytics, AI, DevOps, Security and Digital Assurance we "Make technology work" and accelerate business value, while adding scale and velocity to customer's digital journey on AWS.

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Make Technology Work

USA	INDIA	UK	SINGAPORE
Cupertino | Princeton	Chennai | Bengaluru | Mumbai | Hyderabad	London	Singapore
Toll-free: +1-888-207-5969	Toll-free: 1800-123-1191	Ph: +44 1420 300014	Ph: +65 6812 7888

www.indiumsoftware.com

For Sales Inquiries
sales@indiumsoftware.com

For General Inquiries
info@indiumsoftware.com