

Driving Transformation through Application Modernization

Client Overview



The client is a leading provider of educational services and education-support services. It manages the world's largest online university – the University provides online professional education, and consulting and technical support to institutions offering post-secondary education.

Business Requirement



The client was looking for a technology partner with the right expertise for developing its Classroom Platform. There was an urgent need for a dedicated development team that understands the educational platform landscape, help develop features and functionalities to enhance the legacy platform and provide maintenance support. The objective was to provide learners with an intuitive world-class experience

In an effort to reduce costs, simplify the design, and leverage out-of-the-box capabilities, the university elected Blackboard as its new virtual learning environment.

Engagement Overview & Solution



Impelsys partnered with the client to drive full-scale modernization of their services. Impelsys established a team of experts at the client's onsite locations and the core team identified the requirements, provided state of the art solutions and worked with the dedicated offshore team and streamlined the development and integration of the centralized portal with new features and functionalities.

Impelsys played a vital role in the migration of legacy apps and the reduction of servers thereby providing significant cost savings. The future roadmap migrations include:

- ForgeRock from CAS authentication for student application testing
- SQL and Oracle from the lowest version to the latest version
- SVN repositories to bit bucket repositories
- All legacy services to microservices to support the portal

Achievements



Impelsys supported the client in creating the Student Portal, a mobile-first, responsive, and ADA-compliant application. It is fully capable of serving most useful content to students in an easily accessible fashion. Impelsys also provided support in developing the eCampus Portal, a common infrastructure to support deployment of student- and faculty-facing academic and administrative applications. Impelsys also developed applications and functionalities such as:

- An internal web application for creating, managing, and delivering targeted messages to both students and faculty. The web app can also send Alerts, Notifications, and Messages from the message center to the eCampus homepage
- eSignature web service for registration to help students esign before submitting MOU, Ferpa, and Leave of Absence applications
- The Diploma App for Online application
- “Commencement Web Student App” for students and faculty to register for commencement ceremonies
- “Commencement Web Admin App” to allow Campus Commencement Administrators to process commencement applications and create content for their Campus Commencement Registration pages
- The “FA Resources Application” which allows faculty to access the list of courses approved for the Class Roster
- “Center of Writing Excellence (CWE)” to help students improve their writing skills using tools like WritePoint grammar and style checker, plagiarism checking service, and personal tutor review
- “Center of Mathematics Excellence (CME)” resources to help Students improve quantitative skills including support for algebra and statistics classes



Business Impact



Significant increase in operational efficiency and reduction in cost with a simplified process flow and enhanced end-user experience across key functions like student enrollment, classroom management, online training, attendance management, as well as assessments and certification.

The migration of legacy apps and reduction of server count led to a significant reduction in costs.

Microservices architecture helped quick development and integration of new features and functionalities without impacting existing functionalities.