ALTEN CALSOFTLABS
AN ALTEN GROUP COMPANY

CLOUD BASED VIRTUAL LEARNING ENVIRONMENT FOR ONLINE CONTENT DELIVERY & COLLABORATION

THE CLIENT

The customer is the largest international provider of face-to-face and online tuitions using qualified teachers with a successful track record of nearly 4 decades in providing the best of breed learning solutions for all age groups. The client has almost 650 franchises in 20 countries around the world.

ABOUT THE PROJECT

Virtual Learning Environment (VLE) is a web based tutoring platform that helped our customer in offering remedial tutoring services to students online, instead of the current face-to-face tutoring offered through franchisees. This platform is a database driven, content and tutoring delivery environment with collaboration features for student-tutor interactions. Some of the challenges are:

- The customer envisaged a robust learning platform addressing
- Flexible VLE design to support numerous question types associated with different tutoring subjects and dynamic metadata
- Deliver cloud based virtual learning platform providing an elastic on-demand compute infrastructure and virtual collaboration platform with anytime, anywhere access to learning content.
- Migration of existing CD ROM tutoring content consisting of lessons, questions, graphical/mathematical/science tools and rich intuitive multimedia files
- Integration with existing lesson planning and franchisee management software
- Offline model to support users with limited bandwidth/internet connectivity

SOLUTION DELIVERED

The solution implemented by ALTEN Calsoft Labs encompassed the following features:

- Silverlight based virtual learning solution using Telerik Silverlight based controls that provide rich user interface
- Migrated existing tutoring content (with over 100,000 questions) to the SQL database with metadata to drive the virtual learning platform
- Collaboration features for students and tutors (whiteboard, desktop sharing, audio and video conferencing etc,)
- Cloud readiness assessment of learning platform
- Cloud migration and testing on AWS
- Role based learning, homework and administration portal
- Lesson planning tool & quiz builder
- Pre-enrolment assessment for lesson planning
- Question editor and meta data builder
- Mobile learning support

TECHNOLOGY USED

- Cloud Environment: Amazon Web Services
- Development Environment: Silverlight 4.0, Microsoft .NET, C#, Expression Blend, Ajax, CSS 3.0, JavaScript & SQL Server 2008
- Third Party Controls: Telerik Silverlight Controls & Reporting