

CLOUD BASED VIRTUAL LEARNING ENVIRONMENT

for online content delivery & collaboration



Service: Cloud, Microsoft

OVERVIEW

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.

CHALLENGES

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 client's requirements were:



The customer envisaged a robust learning platform



Offline model to support users with limited bandwidth/internet connectivity



Integration with existing lesson planning and franchisee management software



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

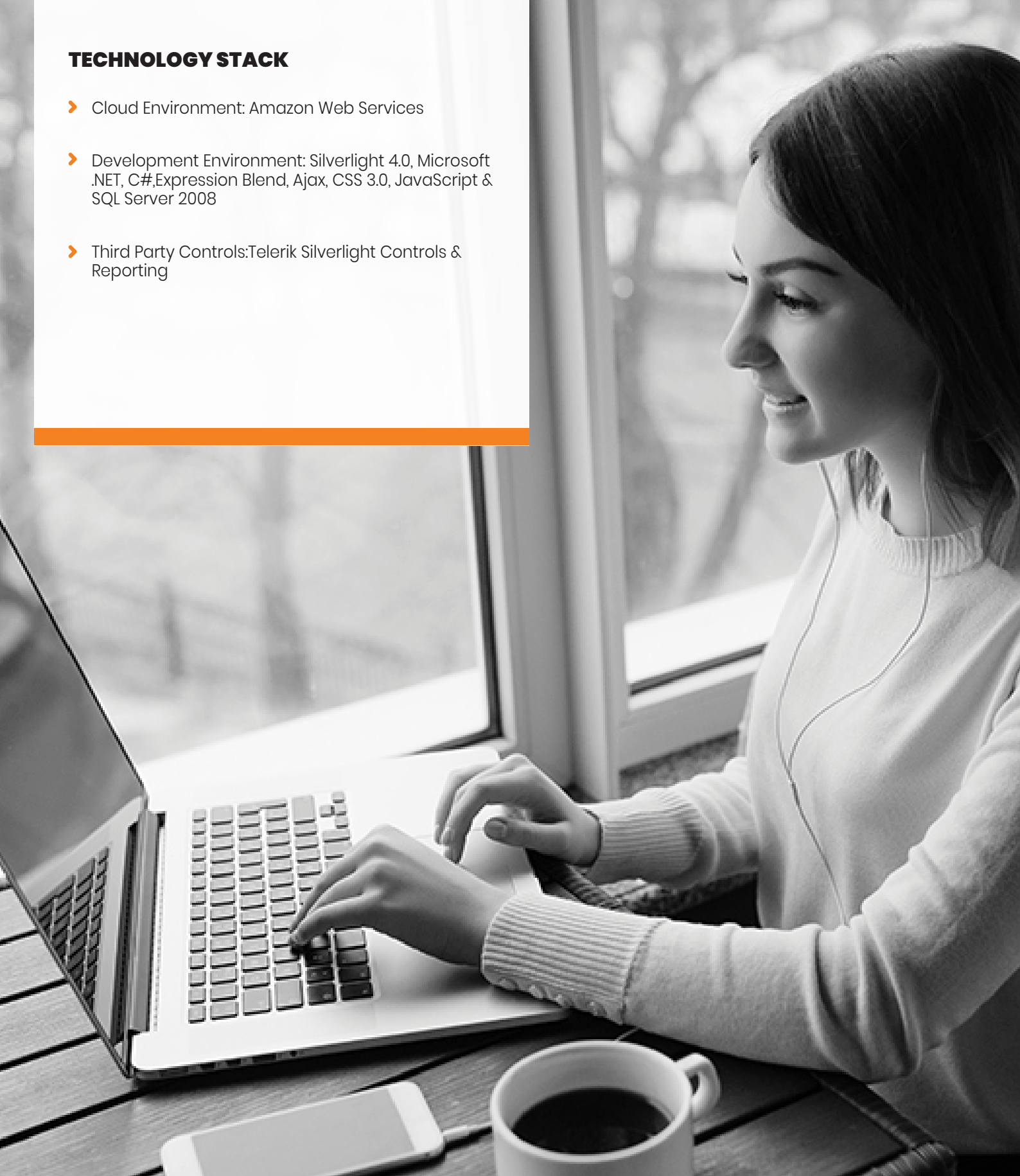
SOLUTION

The solution implemented by ACL Digital encompassed the following features:

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

TECHNOLOGY STACK

- › 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



ACL Digital is a design-led Digital Experience, Product Innovation, Engineering and Enterprise IT offerings leader. From strategy, to design, implementation and management we help accelerate innovation and transform businesses. ACL Digital is a part of ALTEN group, a leader in technology consulting and engineering services.

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