

CASE STUDY

Algoworks helped a progressive and fast growing online education company in developing a web 2.0 compliant, highly interactive and a robust platform for students, teachers and tutors community.

CUSTOMER

The client is a global education community where users can connect and interact with other students, tutors and teachers from around the world, share, discuss and participate to get ahead and excel in school, college, professional or personal life.

BUSINESS SITUATION

The client has been in the online education industry for past 15 years and used various systems and third party tools for online test, test evaluation and test review purpose. Client wanted to come up with a fresh consolidated and still not a monolithic system that could perform the following:-

- Facilitate separate question banks for tests like GRE, GMAT, SAT
- Provide dynamic and generic online test configuration
- Provide test evaluation and modules to show periodical progress made by the user.
- Provides effective content moderation and content management.
- Has audio/video/text sharing feature and allowed users to create own user groups and collaborate.
- Is completely Web 2.0 compliant

SOLUTION

Algoworks team spent 4 weeks with the client and helped him crystallize the requirements and then we came up with system architecture and HLD/LLD documents as part of our first phase of contract. The architecture proposed provided all the required features along with it being:-

- An easy to use online examination platform with intuitive UI
- Highly configurable and scalable
- A collaborative platform having elements of social networking

Our architecture provided a successful solution to major challenges:-

- Use of Amazon S3 services for document storage
- Use of UserPlane tool for Video/Audio/Text sharing
- Custom Analytics & Reporting for test evaluation and user's progress tracking

Development methodology followed was Agile methodology and we had a completely transparent development for quick client feedback.

BENEFITS

- ✓ Interactive and user friendly UI and flow.
- ✓ Ease of use and highly configurable Admin section.
- ✓ Highly secure application access.
- ✓ Save on paper system cost.
- ✓ Quick, low cost and open source development.

Online Examination Platform

Platform - Java/J2EE

Domain: Education

Engagement Key points

- Engagement started in 2008
- Ramp up time from SOW sign off - 2 days
- Peak Team Size - 5
- Team composition - Project Manager, Architect, Software Developer, Test Engineer
- SDLC: Agile

Tools and Technology used

- Java/J2EE
- Spring/Struts/Hibernate/JPA/EJB3
- Ajax/Velocity/Sitemesh/Dojo
- MYSQL 5
- Maven
- Amazon S3 services
- UserPlane Audio/Video/Chat
- SVN - configuration management

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