**V-Academy**

**Project Overview**

We are an upcoming e-learning service provider in the country for various school curriculums. Currently the systems possess the basic provisions to

* View the curriculum and respective course content
* Upload Course content in terms of videos
* Practice tests and mock tests

Our services are well received due to the rich content and friendly video courses. Its our turn to make our system robust enough to make it more easily accessible. We are planning to expand our services in the below modes and develop below features to make it more user friendly with rich content.

* Expand the courses for competitive exams
* Online registrations, packages and payments
* Personalized learning to tailor the syllabus as per the student’s interest
* Enrich the existing user experience
* Easy Access with mobile apps
* Online forum for teachers and students to interact
* Analyze with real time progress and updates to parents
* Dashboards of Rank holders across states for a given curriculum

**Value Adds Expected**

* Feature to stream live sessions, video recording and video courses.

**Below modules are required for back office management.**

* Admin module
* SSO Module
* Reporting modules on the statistics of the user access, test analysis reports etc
* **Technology Stack:**

|  |  |
| --- | --- |
| Presentation Layer | Angular or ReactJS  BootStrap  CSS3/SASS |
| Server Side Implementation | Spring Boot  Spring Rest Controller  Spring Security  Spring AOP  Spring Hibernate or JPA  Maven |
| Database | MYSQL |

**NFR Requirements:-**

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| --- | --- |
| **Security** | Admin Module – UserName/Password Based Credentials (NTLM)  eLearning Platform – OAUTH2  Sensitive data has to be categorized and stored in a secure manner  Secure connection for transmission of any data |
| **User Base** | |  |  |  | | --- | --- | --- | | Front Office | | | | Total users | Concurrent Users | Y0Y Growth % | | 5000 | 300 | 15% |  |  |  |  | | --- | --- | --- | | Admin Apps | | | | Total users | Concurrent Users | Y0Y Growth % | | 100 | 50 | 20% | |
| **Performance** | Peak Load Performance (during Festival days, National holidays etc)  eLearning Platform -< 3 Sec  Admin application < 2 Sec  Non Peak Load Performance  eLearning Platform < 2 Sec  Admin Application < 2 Sec |
| **Availability** | eLearning Platform – 100% Availability  Admin Application – 99% Availability |
| **Standard Features** | * Scalability * Maintainability * Usability * Availability * FailOver |
| **Logging & Auditing** | System should support logging(app/web/db) & auditing at all levels |
| **Monitoring** | Should be able get monitored via as-is enterprise monitoring tools |
| **Cloud** | The Solution should be made Cloud ready, and should have minimum impact when move away to Cloud in infrastructure |
| **Browser Compatible** | IE 8+  Mozilla FireFox Latest – 15  Google Chrome Latest – 20 |
| **Video Streaming** | Should get integration with centralized Video Server for streaming media contents to the end user |