

Requirement Analysis on Online Learning Platform

Functional Requirements:

1. Registration and Sign in options for everyone.
2. Proctored Exam.
3. Admins, teachers and respective students can see the Proctored exam videos that were automatically uploaded after the exam.
4. Everyone can Edit/Update their own password.

Admin:

1. Admins can add admins and teachers.
2. They can see who is enrolled in the system.
3. Admins can add courses, delete courses and update courses.

Teacher:

1. Teachers can add/customize course materials.
2. They can add/delete exams and update the exam date, set the exam the duration of the exam and can update.
3. Teachers can add exam questions, answers of the questions, delete questions, and update questions
4. They have the ability to make the answers visible.
5. They can retrieve student's results by student id.
6. Teachers can enroll students directly using student id.
7. They can see the enrolled students in a course.

Student:

1. There will be options for watching the progress for respective students.
2. Each Student will have an individual dashboard where they can see the course materials.
3. Students can attend the exams.
4. They can see the correct answers once the exam is finished.
5. Students cannot start exams without opening their camera.
6. Students can post about any inquiry/question regarding the topic in the discussion forum to get clarified.
7. They will get pre-exam notifications

Non-Functional Requirements:

1. Operational

- The system must be compatible with every browser.
- The system will remain current with evolving web standards.
- No special maintainability requirements are anticipated.
- The timer will be active while attending the exam.

2. Performance

- The system will be available 24/7.
- System should not take more than 1 second to respond.
- Keep record of Students data and course enrolment with enrolment date

3. Security

- Students must use their academic roll or id to register and login.
- One student can not see another student's information.
- Only admins can add/delete courses.

4. Cultural and Political:

- The system will be available in Bangla.
- Will maintain the regularities of the Ministry of Education.
- Students and teachers' data to be protected by following Digital Security ACT(DSA).