

Online Examination System

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1. Objective and Scope

The objective and scope of an online examination system encompass various aspects aimed at enhancing the efficiency, accessibility, and integrity of the examination process. The scope of the product includes the following basic features:

- The system can be used in educational institutions as well as in corporate world. Can be used anywhere any time as it is a web-based application (user Location doesn't matter). No restriction that examiner has to be present when the candidate takes the test.
- There are different kinds of Users (Admin, Examiner) can log on to website and access, secure authentication system for different types of user access the website. Login screen for entering username and password will be based upon the users.
- Time can be saved by scheduling the exams, if it is available a question bank to store questions for different subjects. A system can be given a mark by checking the students answers, and give the result as soon as students finish his exam.
- The system should have records of students and faculty that can be access to the system which can be used only for the authorized person.
- The system should be more secure for management user records and more reliable to work at any conditions

2. Project End Users

The end users of online examination system are

Examiners: Students or exam candidates are the primary users who take the exams conducted through the online examination system. They interact with the system to access exam instructions, questions, and submit their responses. They may also view their results and performance feedback through the system.

Admin: Admin are responsible for creating and managing exams within the online examination system. They add questions to the question bank, schedule exams, monitor the exam sessions.

3. Features

3.1 Admin Features

3.1.1 Login to the system

Each and every user should be authenticated with a User Name and Password to login into the system.

Validations for User Name and Password.

User Name: It accepts only Alphabets, Numbers, Dot (.) symbol and Underscore (_) symbol.

Password: It can be anything of the users' choice.

3.1.2 Manage Courses

- Admins can add, edit, or delete courses offered within the system. This includes providing details such as course name, description, and instructor information.
- They can assign administrators or instructors to specific courses, granting them access to manage exams and oversee student progress within those courses.

3.1.3 Manage Exams

- Admins have the authority to create, schedule, and manage exams for various courses. They can specify exam details such as title, date, time, duration, and associated course.
- They can set parameters for each exam, such as allowing or disallowing backtracking, randomizing question order, and configuring grading settings.
- Admins can enable or disable exams as needed, controlling access based on course requirements or scheduling constraints.

3.1.4 Manage Exam Question

- Admins maintain a question bank for each exam, which includes adding, editing, or deleting questions across different categories or difficulty levels.
- They have the flexibility to create various question types, such as multiple-choice, essay, true/false, or fill-in-the-blank questions.
- Admins can organize questions within the bank, making it easier to select relevant questions when creating new exams.

3.1.5 Manage Students

- Admins oversee examinee profiles within the system, including adding new examinees, updating existing profiles, or removing inactive accounts.
- They assign exams to specific examinees or groups, ensuring that each student receives the appropriate assessments based on their enrolled courses.
- Admins monitor examinee activity, track progress, and manage exam attempts, providing support or intervention as needed.

3.1.6 View Student Result

- Admins can view detailed results and performance metrics for individual examinees, including scores, grades, and feedback for each exam attempt.
- They generate reports and analytics on examinee performance, comparing results across exams, courses, or cohorts.
- Admins use this information to assess student learning outcomes, evaluate instructional effectiveness, and provide targeted interventions or support services.

3.1.7 Read Feedbacks

- Collect feedback from students or instructors regarding exams, courses, or the overall system. Provide a mechanism for users to submit feedback anonymously if desired. Analyze feedback to identify areas for improvement and make necessary enhancements.

3.2 Students/Examiner Features

3.2.1 Login to the system

Each and every user should be authenticated with a User Name and Password to login into the system.

Validations for User Name and Password.

User Name: It accepts only Alphabets, Numbers, Dot (.) symbol and Underscore (_) symbol.

Password: It can be anything of the users' choice.

3.2.2 Appear for Exam

- Students access available exams based on their course enrollment, reviewing exam instructions and guidelines provided by instructors.
- They answer exam questions within the allotted time frame, navigating through the exam interface to input their responses and submit their completed exams.

3.2.3 View Exam Result

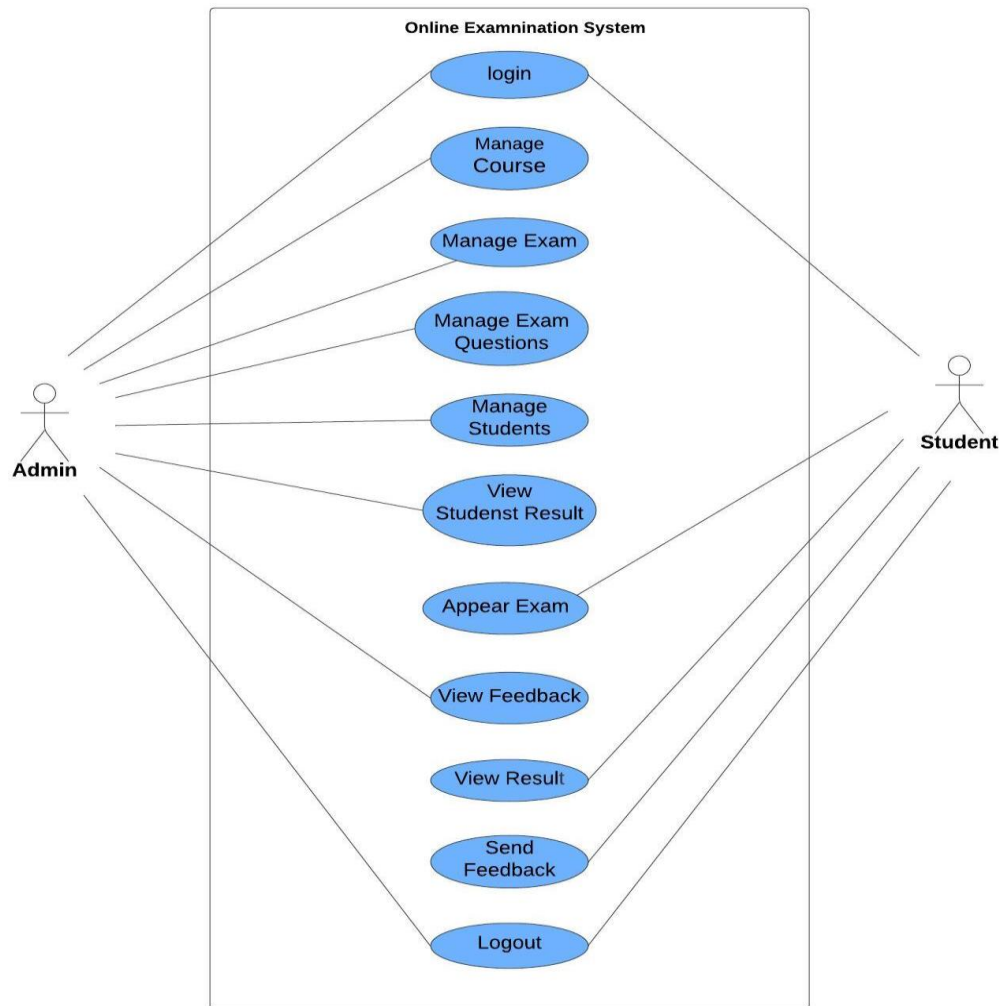
- Students view their exam results and performance feedback, accessing scores, grades, and detailed breakdowns of their answers.
- They compare their results with class averages or benchmarks, gaining insights into their strengths and areas for improvement. Students use this information to track their progress, set goals, and prioritize their learning efforts for future assessments.

3.2.4 Send a Feedback

- Students provide feedback on their exam experience, including insights on question clarity, relevance, or difficulty.
- They submit suggestions or report any technical issues encountered during the exam, helping administrators improve the functionality and usability of the online examination system.

- Students communicate with instructors or administrators regarding exam-related matters, seeking clarification or assistance as needed to enhance their learning experience.

4. Use Case Diagram



Use case diagram for OES