ONLINE EXAM PORTAL

TEAM MEMBERS   : Aaron Rumao
                                                     Agam Jain
                                                     Badal Thosani
                                                     ChetanKumar Pal
                                                     E.Sundaresan
                                                     Jasman Arora
                                                     Prathama Morye
                                                     Sarvesh Kulkarni
                                                     Shubham Dave
                                                     Srikant Gurram

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1. Problem Statement

Exams are conducted by various institutes and organisations regularly to test the knowledge of the individual. These exams gives the individual the idea about how well they have understood the concepts. If a user wants to give the test, user must register first only then user will be able to give the exam. The users that have registered previously can give the exams just by login into the system.

The Online Examination system should allow the user to register and login into the system. The system should show all the different kind of tests available in the system and the user must be able to take the tests. The exams list should be maintained regularly by the system. The user should be allowed to take the test only once. After the test the system must display the results.

The system should allow the creation of new users in the system. It should be accessible by two kinds of users 1.) The system administrator 2.) The users.

The administrator should be able to upload the question bank. The admin should also be able to load the tests and make changes accordingly. The admin should also manage the users

2. Key Features Required

- System should maintain all the data about the user and admin.
- The system should also allow for the creation and validation of the users.
- Admin must be able to load the question bank as well as the tests.
- The user must be able to take tests.
- The system should allow the user to register with the system and only the registered users should be able to take the tests.

Persona/Actors	Description
Admin	Any user logged in with admin privileges.
User	Any user who is registered with the system.

Epic ID	Epic
EP-OEP-1	Administration
EP-OEP-2	User Management
EP-OEP-3	Test Management

3. User Story

Epic 1: Administration

User Story: US-OEP-1

Admin should be allowed to login into the portal.

Solution:

1. Portal should allow the admin to accept the username and password.

User Story: US-OEP-2

Admin should be able to add and delete number of tests and number of users.

Business Rules:

1. Unique Test ID should exist for all tests.
2. If Test ID does not exist display as message "Test ID specified is incorrect".

Solution:

1. Provide links to view, add, delete and update the test details.
2. Upon clicking the view link the application should fetch all the test details.
3. Upon clicking the add link the admin should be allowed to enter the test details along with test id.
4. Upon clicking the delete link the admin should be allowed to enter the test id which need to be deleted. Once added and deleted display the test details for the confirmation.

User Story: US-OEP-3

Keep a record of how many users have registered.

Solution:

1. Admin dashboard synced with portal and database.

Epic 2: User Management

User Story: US-OEP - 1

User Registration.

Solution:

1. Design a registration page for the user.
2. Store the Registered Details in the database.

User Story: US-OEP - 2

User login to the portal.

Solution:

1. Portal should allow to accept the username and password.

User Story: US-OEP – 3

Verification and Validation for login.

Solution:

1. Validate the credentials using JavaScript.
2. Username and password can't be left blank.
3. If username and password is invalid than the user should display "invalid username and password.
4. If valid go to main window.

User Story: US-OEP – 4

List of all test

Solution:

1. The User can have a View option button where he can view the History of all the test taken by him.
2. The user can view the list of the upcoming tests.

User Story: US-OEP – 5

Take a test

Solution:

1. The user can subscribe for weekly/monthly tests.
2. The user can take test based on a particular domain.

Epic 3: Test Management

User Story: US-OEP - 1

Random question selection in test.

Solution:

1. Design an algorithm to select random questions from question bank.
2. Providing same set of question but different sequence of questions.

User Story: US-OEP - 2

Time Window.

Solution:

1. Setting time session for a particular quiz.
2. Display warning message when time is about to finish.
3. Admin will decide the time limit for the test.

User Story: US-OEP – 3

Result Displaying.

Solution:

1. Displaying all questions along with the correct answers.
2. Displaying score of the test taken.
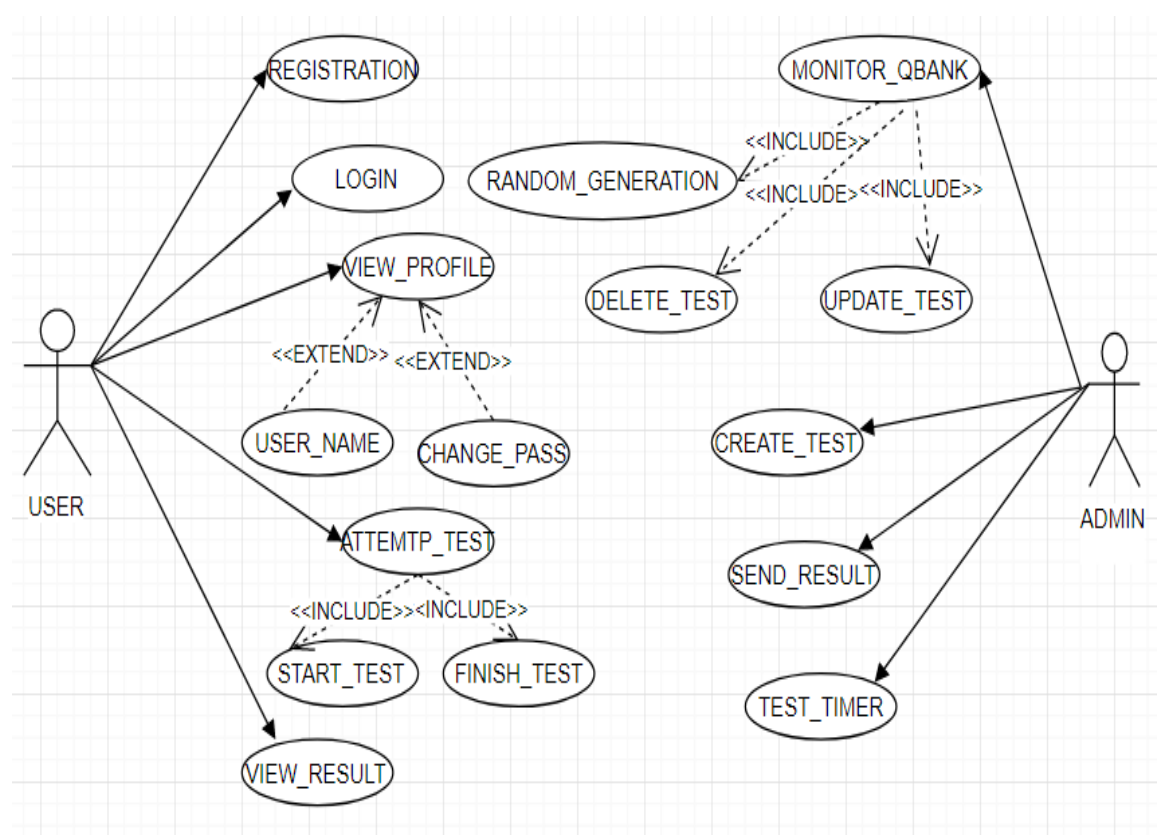
User Story: US-OEP – 4

Test selection.

Solution:

1. User should be able to select a test.
2. The title of the test should be self-descriptive.

4. Diagrams

4.1 Use Case Diagram

4.2 ER Diagram