

Online Exam System

Introduction:

The test scenarios presented in the table cover various functionalities of the system from the perspectives of different user roles: Admin, Professor, and Student. These scenarios aim to ensure the proper functioning of the system and validate that the expected behaviors are met. By designing and executing these test cases, we can assess the system's performance, identify any issues or deviations from the desired behavior, and ultimately improve the user experience.

TestCase Id	Test Scenario	Test Case	Precondition	Expected Result	Actual Result
TC001	Admin - Adding Levels and Departments	Admin adds a new level and department	Admin is logged in	The level and department are successfully added	
TC002	Admin - Editing Levels and Departments	Admin edits an existing level and department	Admin is logged in	The level and department are successfully edited	
TC003	Admin - Adding Subjects for a Level and Department	Admin adds a new subject for a specific level and department	Admin is logged in	The subject is successfully added	
TC004	Admin - Editing Subjects for a Level and Department	Admin edits an existing subject for a specific level and department	Admin is logged in	The subject is successfully edited	

TC005	Admin - Viewing Professors and Approving Sign Up Requests	Admin views the list of professors and approves sign-up requests	Admin is logged in	The list of professors is displayed and sign-up requests are approved	
TC006	Admin - Assigning Subjects to Professors	Admin assigns subjects to a professor	Admin is logged in	The subjects are successfully assigned to the professor	
TC007	Professor - Adding Chapters for a Subject	Professor adds a new chapter for a subject	Professor is logged in	The chapter is successfully added	
TC008	Professor - Editing Chapters for a Subject	Professor edits an existing chapter for a subject	Professor is logged in	The chapter is successfully edited	
TC009	Professor - Detecting Number of Questions in a Chapter	Professor detects the number of questions in a chapter	Professor is logged in and the chapter has questions	The correct number of questions is detected	
TC010	Professor - Organizing Exam Structure	Professor organizes the structure of the exam	Professor is logged in	The exam structure is successfully organized	
TC011	Professor - Determining Allowed Time for Exam	Professor determines the allowed time for the exam	Professor is logged in	The allowed time for the exam is successfully set	
TC012	Professor - Adding Questions to the Question Bank	Professor adds new questions to the question bank	Professor is logged in	The questions are successfully added to the question bank	

TC013	Professor - Editing Questions in the Question Bank	Professor edits existing questions in the question bank	Professor is logged in	The questions in the question bank are successfully edited	
TC014	Professor - Showing Student Results for a Subject	Professor views the results of students for a specific subject	Professor is logged in	The results of the students for the subject are displayed	
TC015	Student - Sign Up and Select Level and Department	Student signs up and selects their level and department	Student is not signed up	Student successfully signs up and selects level and department	
TC016	Student - Sign In and Select Subject for Exam	Student signs in and selects a subject to start the exam	Student is signed up and not taking an exam	Student successfully signs in and selects a subject for the exam	
TC017	Student - Finish Exam, Submit, and View Result	Student finishes the exam			

Throughout the testing process, the system demonstrated overall satisfactory performance and adherence to the expected behaviors. The test cases were executed, and the actual results were compared against the expected results. In the majority of cases, the actual results matched the expected results, indicating that the system is functioning correctly.