**1. User Registration and Login:**

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| **Test Case ID:** | TC-1 |
| **Test Case Title:** | User Registration and Login |
| **Test Case Priority:** | High |
| **Requirements** | The system shall allow users to register and create an account with a unique username and password.  The system shall allow users to log in to their account using their username and password. |
| **Test Description:** | This test case verifies that a user can successfully register and log in to their account. |
| **Test Date:** | 15/06/2024 |
| **Pre-Conditions** | The system is available and accessible.  The user has not previously registered. |
| **Dependencies** | None |
| **Test Steps:** | 1. Go to the registration page.  2. Enter a unique username and password.  3. Enter confirm password (matching the password).  4. Click the "Register" button.  5. Go to the login page.  6. Enter the registered username and password.  7. Click the "Login" button. |
| **Test Data:** | Username/Email id: testuser/tu@gmail.com  Password: testpassword123  Confirm Password: testpassword123 |
| **Expected Results** | 1. System should open home page.  2. Login page should be displayed.  2. An error message should be shown to enter username.  3. An error message should be shown to enter password.  4. Error message should be shown to enter correct password and user id  5.The user is successfully registered and redirected to the login page.  5.The user is successfully logged in and redirected to the dashboard or home page. |
| **Actual Results** | As above |
| **Post Conditions** | The user account is created and active.  The user is logged in to their account. |
| **Status:(Pass or Fail)** | Pass |
| **Other Comments** | None |

**2. Course Creation and Management:**

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| **Test Case ID:** | TC-2 |
| **Test Case Title:** | Course Creation and Management |
| **Test Case Priority:** | High |
| **Requirements** | The system shall allow administrators to create and manage courses, including adding and removing courses, editing course details, and assigning instructors.  The system shall allow instructors to create and manage course content, including adding and removing lessons, quizzes, and assignments. |
| **Test Description:** | This test case verifies that administrators and instructors can successfully create and manage courses and course content. |
| **Test Date:** | 12/6/2024 |
| **Pre-Conditions** | The system is available and accessible.  An administrator and instructor account exist. |
| **Dependencies** | None |
| **Test Steps:** | **Administrator Test Steps:**  1. Log in as an administrator.  2. Go to the course management page.  3. Click the "Create Course" button.  4. Enter course details (name, description, etc.).  5. Assign an instructor to the course.  6. Click the "Save" button.  7. Verify the course is created and visible in the course list.  8. Edit the course details (name, description, etc.).  9. Verify the changes are saved.  10. Remove the course.  11. Verify the course is no longer visible in the course list.  **Instructor Test Steps:**  1. Log in as an instructor.  2. Go to the course management page.  3. Select a course to manage.  4. Click the "Add Lesson" button.  5. Enter lesson details (name, content, etc.).  6. Click the "Save" button.  7. Verify the lesson is added to the course content.  8. Edit the lesson details (name, content, etc.).  9. Verify the changes are saved.  10. Remove the lesson.  11. Verify the lesson is no longer visible in the course content. |
| **Test Data:** | Course name: Test Course  Course description: This is a test course  Instructor name: John Doe  Lesson name: Test Lesson  Lesson content: This is a test lesson |
| **Expected Results** | The course is successfully created and managed by the administrator.  The instructor can successfully create and manage course content. |
| **Actual Results** | As above |
| **Post Conditions** | The course and course content are created and visible.  The administrator and instructor can manage the course and course content. |
| **Status** | In progress |
| **Other Comments** | None |

**3. Course Enrollment and Progress Tracking:**

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| **Test Case ID:** | TC-3 |
| **Test Case Title:** | Course Enrollment and Progress Tracking |
| **Test Case Priority:** | High |
| **Requirements** | The system shall allow users to enroll in courses and track their progress, including completing lessons, quizzes, and assignments.  The system shall allow administrators and instructors to view user progress and completion status. |
| **Test Description:** | This test case verifies that users can successfully enroll in courses and track their progress, and that administrators and instructors can view user progress and completion status. |
| **Test Date:** | 25/06/2025 |
| **Pre-Conditions** | The system is available and accessible.  A course exists with lessons, quizzes, and assignments.  A user account exists. |
| **Dependencies** | None |
| **Test Steps:** | **User Test Steps:**  1. Log in as a user.  2. Go to the course catalog page.  3. Select a course to enroll in.  4. Click the "Enroll" button.  5. Verify the user is enrolled in the course.  6. Complete a lesson, quiz, and assignment.  7. Verify the progress is tracked and visible on the user's dashboard.  8. Verify the completion status is updated.  **Administrator/Instructor Test Steps:**  1. Log in as an administrator or instructor.  2. Go to the course management page.  3. Select a course to view user progress.  4. Click on a user's name to view their progress.  5. Verify the user's progress and completion status are visible.  6. Verify the administrator/instructor can view all users' progress and completion status. |
| **Test Data:** | Course name: Test Course  User name: John Doe  Lesson name: Test Lesson  Quiz name: Test Quiz  Assignment name: Test Assignment |
| **Expected Results** | The user is successfully enrolled in the course.  The user's progress is tracked and visible.  The administrator/instructor can view user progress and completion status. |
| **Actual Results** | As above |
| **Post Conditions** | The user is enrolled in the course.  The user's progress is tracked and visible.  The administrator/instructor can view user progress and completion status. |
| **Status** | In progress |
| **Other Comments** | None |