**5.4 Test Cases**

**Login Page:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| 1 | Valid Credentials | Verify user can login with valid credentials | 1. Navigate to the login page. 2. Enter valid username and password. 3. Click on the login button. | Valid username and password | User should be logged in and directed to the dashboard. | User is logged in successfully. | Pass |
| 2 | Invalid Credentials | Ensure user cannot login with invalid credentials | 1. Navigate to the login page. 2. Enter invalid username or password. 3. Click on the login button. | Invalid username or password | User should see an error message indicating invalid credentials. | Error message displayed for invalid credentials. | Pass |
| 3 | Empty Fields | Verify user cannot login with empty fields | 1. Navigate to the login page. 2. Leave username or password field empty. 3. Click on the login button. | Empty username or password field | User should see a validation message to fill in all fields. | Validation message displayed for empty fields. | Pass |

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| 4 | Forgot Password | Test the "Forgot Password" functionality | 1. Navigate to the login page. 2. Click on the "Forgot Password" link.3. Enter the registered email address.4. Click on the submit button. | Registered email address | User should receive an email with password reset instructions. | Password reset email sent successfully. | Pass |
| 5 | Remember Me | Verify "Remember Me" functionality | 1. Navigate to the login page. 2. Check the "Remember Me" checkbox.3. Enter valid username and password. 4. Click on the login button. | Valid username and password | User's session should be remembered even after logging out. | User's session remembered after logging out. | P |

**Registration Page:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| 6 | Valid Registration | Test user registration with valid details | 1. Navigate to the registration page. 2. Enter all required fields with valid information. 3. Click on the submit button. | Valid user details (name, email, password) | User should be registered successfully and directed to the login page. | User registered successfully. | Pass |
| 7 | Existing Email | Ensure user cannot register with an existing email | 1. Navigate to the registration page. 2. Enter an email address that is already registered. 3. Fill in other required fields.4. Click on the submit button. | Existing email address | User should see an error message indicating the email is already in use. | Error message displayed for existing email. | Pass |
| 8 | Weak Password | Test registration with a weak password | 1. Navigate to the registration page. 2. Enter a password that does not meet the minimum strength requirements. 3. Fill in other required fields. 4. Click on the submit button. | Weak password | User should see a validation message indicating the password strength requirement. | Validation message displayed for weak password. | Pass |
| 9 | Terms and Conditions | Ensure users agree to terms and conditions during registration | 1. Navigate to the registration page. 2. Attempt to submit the registration form without accepting terms and conditions. | N/A | User should see a validation message to accept terms and conditions. | Validation message displayed for not accepting terms. | Pass |
| 10 | Captcha Verification | Verify Captcha functionality during registration | 1. Navigate to the registration page. 2. Complete all required fields. 3. Enter the correct Captcha code. 4. Click on the submit button. | Correct Captcha code | User should be able to register only after entering the correct Captcha code. | Captcha verification passed. | Pass |

**user Course Details Page:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| 11 | Create New Course | Test creation of a new course | 1. Login as admin | Course details | New course created successfully | New course created successfully | Pass |
| 12 | View Course Details | Ensure course details are displayed correctly | 1. Navigate to course details page | Course ID | Course details displayed correctly | Course details displayed correctly | Pass |
| 13 | Enroll User | Test enrolling a user to a course | 1. Login as admin | user details | user enrolled successfully | user enrolled successfully | Pass |
| 14 | Edit Course Details | Test editing course details | 1. Login as admin | Updated course details | Course details updated successfully | Course details updated successfully | Pass |
| 15 | Delete Course | Verify deletion of a course | 1. Login as admin | Course ID | Course deleted successfully | Course deleted successfully | Pass |

**user Details:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| 16 | Mark Reporting | Verify marking functionality | 1. Login as instructor/admin | user details | marked successfully | marked successfully | Pass |
| 17 | View Reporting | Ensure records are displayed | 1. Navigate to page | Course ID/Date | records displayed correctly | records displayed correctly | Pass |
| 18 | Edit Course Details | Test editing course details | 1. Login as admin | Updated course details | Course details updated successfully | Course details updated successfully | Pass |
| 19 | Delete Course | Verify deletion of a course | 1. Login as admin | Course ID | Course deleted successfully | Course deleted successfully | Pass |
| 20 | Generate Report | Test generating report | 1. Login as instructor/admin | Course ID/Date | report generated successfully | report generated successfully | Pass |

**user update profile:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| TC001 | Update Name | Verify that a user can update their name successfully. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>Current Name: John Doe<br>New Name: Jane Doe | The User's name is successfully updated to "Jane Doe". | The User's name was successfully updated. | Pass |
| TC002 | Update Email | Verify that a user can update their email successfully. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>Current Email: john@example.com<br>New Email: jane@example.com | The User's email is successfully updated to "jane@example.com". | The User's email was successfully updated. | Pass |
| TC003 | Update Contact Number | Verify that a user can update their contact number. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>Current Contact Number: +1234567890<br>New Contact Number: +1987654321 | The User's contact number is successfully updated to "+1987654321". | The User's contact number was successfully updated. | Pass |
| TC004 | Update Address | Verify that a user can update their address. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>Current Address: 123 Main St, City, Country<br>New Address: 456 Oak Ave, Town, Country | The User's address is successfully updated to "456 Oak Ave, Town, Country". | The User's address was successfully updated. | Pass |
| TC005 | Update Profile Picture | Verify that a user can update their profile picture. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>New Profile Picture: [image file] | The User's profile picture is successfully updated. | The User's profile picture was successfully updated. | Pass |
| TC006 | Update Password | Verify that a user can update their password. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>Current Password: oldpassword<br>New Password: newpassword123 | The User's password is successfully updated to "newpassword123". | The User's password was successfully updated. | Pass |
| TC007 | Attempt Empty Name Update | Verify that an error is displayed when the user attempts to update their name field with empty data. | 1. Log in to the user management system. <br> 2. Navigate to the profile settings. <br> 3. Click on "Edit". | user ID: 1234<br>New Name: "" (empty) | System displays an error message indicating that the name field cannot be empty, and the profile remains unchanged. | An error message was displayed for empty name field. | Pass |

**user add menu:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| TC001 | Add menu | Verify that an administrator can add a new menu. | 1. Log in to the user management system as an administrator. <br> 2. Navigate to the menu management section. <br> 3. Click on "Add menu". | Administrator ID: 1234<br>menu Name: Mathematics<br>menu Code: MATH101 | The menu "Mathematics" with code "MATH101" is successfully added to the system. | The menu "Mathematics" with code "MATH101" was successfully added. | Pass |
| TC002 | Attempt Empty menu Name | Verify that an error is displayed when attempting to add a menu with an empty name. | 1. Log in to the user management system as an administrator. <br> 2. Navigate to the menu management section. <br> 3. Click on "Add menu". | Administrator ID: 1234<br>menu Name: "" (empty)<br>menu Code: PHY101 | System displays an error message indicating that the menu name field cannot be empty, and the menu is not added. | An error message was displayed for empty menu name. | Pass |

**user manage menu:**

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| **Test ID** | **Test Name** | **Test Description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| TC001 | Add menu | Verify that an administrator can add a new menu. | 1. Log in to the user management system as an administrator. <br> 2. Navigate to the menu management section. <br> 3. Click on "Add menu". | Administrator ID: 1234<br>menu Name: Mathematics<br>menu Code: MATH101 | The menu "Mathematics" with code "MATH101" is successfully added to the system. | The menu "Mathematics" with code "MATH101" was successfully added. | Pass |
| TC002 | Update menu Name | Verify that an administrator can update the name of a menu. | 1. Log in to the user management system as an administrator. <br> 2. Navigate to the menu management section. <br> 3. Select the menu to be updated. <br> 4. Click on "Edit menu". | Administrator ID: 1234<br>menu ID: 101<br>New menu Name: Biology | The menu name is successfully updated to "Biology". | The menu name was successfully updated to "Biology". | Pass |
| TC004 | Delete menu | Verify that an administrator can delete a menu. | 1. Log in to the user management system as an administrator. <br> 2. Navigate to the menu management section. <br> 3. Select the menu to be deleted. <br> 4. Click on "Delete menu". | Administrator ID: 1234<br>menu ID: 101 | The menu "Biology" is successfully deleted from the system. | The menu "Biology" was successfully deleted. | Pass |