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# Test Scenarios E Learning Project

## General User Interface and Navigation

1. Verify that the homepage loads correctly and displays the expected content.

2. Check that the main navigation menu is accessible and each link redirects to the correct page.

3. Test the responsiveness of the website on different devices (desktop, tablet, mobile).

4. Ensure that the search functionality works correctly, returning relevant course results.

5. Verify that accessibility features (like screen reader support and keyboard navigation) are functioning properly.

## User Account Management

6. Test the user registration process for different roles (student, teacher, admin).

7. Verify that users can log in and log out successfully.

8. Check the password reset functionality for security and effectiveness.

9. Ensure that user profiles can be edited and saved correctly.

10. Test the account deletion process and its impact on user data.

## Course Browsing and Enrollment

11. Verify that courses are correctly categorized and can be filtered by various criteria (e.g., subject, level, language).

12. Check that course details pages display all necessary information (description, prerequisites, instructor info).

13. Test the course enrollment process, including payment gateway integration if applicable.

14. Ensure that enrolled courses are accessible in the user’s dashboard.

15. Verify the functionality to unenroll or request a refund where applicable.

## Course Content Interaction

16. Test video playback for course lectures, including controls like play, pause, and volume.

17. Verify that downloadable materials (PDFs, slides) are accessible and correct.

18. Check the functionality of interactive elements like quizzes and assignments.

19. Ensure that progress tracking (e.g., completed modules) works correctly.

20. Test the forums or discussion boards for user interaction and moderation features.

## Quizzes and Assignments

21. Verify that quizzes are timed correctly and scores are calculated accurately.

22. Check the submission process for assignments and any file upload functionality.

23. Test the grading system and ensure feedback is visible to students.

24. Ensure that deadlines for quizzes and assignments are enforced by the system.

25. Verify the re-attempt policies for quizzes and assignments.

## Teacher-Specific Functionalities

26. Test the course creation process, including uploading of materials and setting up quizzes.

27. Verify that teachers can manage their courses (edit, delete, update).

28. Check the enrollment management features, allowing teachers to view and manage their students.

29. Ensure that teachers can grade assignments and post feedback.

30. Test the analytics features for teachers to track student progress and engagement.

## Admin-Specific Functionalities

31. Verify that admins can add or remove courses from the platform.

32. Check that admins can manage user accounts (activate, deactivate, delete).

33. Test the reporting features for user activity and course popularity.

34. Ensure that system settings (like payment options, platform settings) can be modified by admins.

35. Verify the functionality for admins to send notifications or announcements to all users.

## Security and Compliance

36. Test for SQL injection vulnerabilities and other common security threats.

37. Verify that data encryption is used for sensitive data (passwords, user information).

38. Check compliance with relevant data protection regulations (e.g., GDPR).

39. Ensure that user data is backed up regularly and can be restored.

40. Test the logout functionality to ensure that sessions are terminated securely.

## Performance and Scalability

41. Verify that the platform can handle a high number of simultaneous users without significant performance degradation.

42. Test the loading times of pages and ensure they are within acceptable limits.

43. Check that data-intensive operations (like generating reports) do not cause system crashes.

44. Ensure that the platform can scale up resources during peak usage times.

45. Test for memory leaks or other issues that could affect long-term stability.