

Test Scenario	Feature Being Tested	Test Step	Expected Result	Setup/Teardown Procedures	Why This Test Is Important
Login Functionality	User login functionality	User enters correct username and password	The system should allow users to log in with valid credentials and deny access with invalid credentials. After a successful login, users should be redirected to their dashboard or homepage.	Setup: Prepare test user accounts with valid and invalid credentials. Teardown: Clear session data or reset user login status after each test.	Login is critical. A failure here can prevent access to key features and lead to a poor user experience. Automation ensures that login remains functional after website updates.
Website Responsiveness	Website responsiveness across devices	Cross-browser Support: Automates across all major browsers for broad coverage.	The layout and design should adapt properly to different screen sizes and orientations. Elements like buttons, text fields, images, and navigation menus should resize or rearrange.	Setup: Define a set of devices and screen sizes (e.g., desktop, tablet, mobile). Teardown: None required.	With increasing mobile internet usage, responsiveness is crucial for providing a good experience across all devices. This test ensures no UI issues hinder the experience, especially on mobile.
Website Performance	Website performance under high traffic load	Use tools like Apache JMeter to simulate concurrent users	The website should handle the expected number of simultaneous users without significant slowdown or errors. Page load times should stay within acceptable limits.	Setup: Use tools like Apache JMeter to simulate concurrent users Teardown: Reset server logs and database after each test.	Ensures the website can handle real-world traffic without crashing or slowing down, preventing user frustration or abandonment.
Data Accuracy	Data input, processing, and output accuracy	Create test data (e.g., fill out forms with sample data, check database records).	Any data submitted through forms or other input methods should be processed correctly and stored in the database without error. The displayed data should match the stored data.	Setup: Create test data (e.g., fill out forms with sample data, check database records). Teardown: Clean up test data after verification to keep database consistent.	Data integrity is crucial for user trust and business functionality. Incorrect data could lead to errors and disrupt the service, negatively affecting user satisfaction.