**Title**

**Automated Testing Plan for LUMA-STORE Website using Cypress**

**Introduction:**   
  
This test plan outlines the approach, objectives, scope, and strategies for automating testing of an E-commerce website using Cypress.

**Objective:**

The objective is to ensure the functionality, usability, and reliability of the E-commerce website through automated testing.

**Scope:**

The scope includes testing the following modules:

Sign in

Create an account

Product listing

Add to cart

Checkout

**Features to be Tested:**

User authentication (sign in, create account)

Product browsing and listing

Adding products to cart

Checkout process

**Features not to be Tested:**

Payment gateway integration (mocked)

Third-party integrations (unless necessary for testing)

**Test Deliverables:**

Automated test scripts

Test execution reports

**Testing Approach/Strategy:**

Use Page Object Model (POM) for better maintenance and scalability

Utilize Cypress fixtures for test data

Implement custom commands for reusable actions

Minimize test dependencies

Prioritize critical scenarios

Perform both positive and negative testing

**Test Environment:**

E-commerce website staging environment

Cypress test runner

Chrome or Firefox browser

**Entry/Exit Criteria:**

**Entry Criteria:**   
Completion of development, availability of test environment

**Exit Criteria:**   
Successful execution of all test cases, no critical defects

**Test Schedule:**

Test Planning: 1 day

Test Script Development: 3 days

Test Execution: 5 days

Defect Reporting and Retesting: 2 days

**Roles and Responsibilities:**

Test Automation Engineer: Develop and execute test scripts

QA Lead: Test planning, coordination, and reporting

**Risks and Mitigation Strategies:**

Risk: Changes in UI can impact test scripts

Mitigation: Regular maintenance of test scripts, use of robust locators

**Dependencies:**

Availability of development builds

Access to test environment

**Assumptions and Constraints:**

Assumption: Test environment will be stable

Constraint: Limited time for test execution

**Approvals:**

Test plan approval from stakeholders

**References:**

Cypress documentation

E-commerce website requirements