## **Test Plan for Automation Test Store**

### **1. Introduction**

This document outlines the scope, objectives, resources, and schedule for testing the *Automation Test Store* website. The purpose of this test plan is to ensure that all functional and non-functional components of the site work as expected under various conditions.

### **2. Scope of Testing**

#### **In Scope:**

* Functional Testing of UI elements and features
* Cross-browser compatibility testing
* Responsive design testing (mobile, tablet, desktop)
* User flow testing (product browsing, cart, checkout)
* Form validation (login, registration, contact forms)
* Basic performance and load testing
* Basic security checks (e.g., login page, input sanitization)

#### **Out of Scope:**

* Backend/database testing
* Payment gateway verification (dummy/test simulation only)
* Extensive security testing (e.g., penetration testing)

### **3. Objectives**

* Verify that the main workflows (browsing products, adding to cart, user login/register, checkout) function correctly.
* Ensure the site displays properly on major browsers and device sizes.
* Validate that all forms have proper input validation and error handling.
* Check for broken links, missing images, and JavaScript errors.
* Evaluate site responsiveness and loading times under normal usage conditions.

### **4. Test Approach**

#### **4.1 Testing Types**

* **Functional Testing:** Manual and/or automated testing of all features.
* **UI/UX Testing:** Verifying layout, alignment, colors, and responsiveness.
* **Regression Testing:** Ensuring recent changes haven’t broken existing functionality.
* **Compatibility Testing:** Testing across different browsers (Chrome, Firefox, Safari, Edge) and devices.
* **Performance Testing:** Basic checks for loading time and responsiveness.
* **Security Testing:** Input validation, session management, and cookie checks.

#### **4.2 Tools Used**

* **Automation:** Selenium, Cypress, or Playwright
* **Bug Tracking:** Jira, Trello, or GitHub Issues
* **Test Management:** TestRail, Zephyr, or Excel
* **Performance:** Lighthouse, GTMetrix
* **Browser Testing:** BrowserStack or real devices

### **5. Test Deliverables**

* Test Plan Document
* Test Cases / Test Scenarios
* Test Execution Report
* Defect Report
* Final Test Summary Report

### **6. Schedule**

| **Activity** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Planning | April 18 | April 19 |
| Test Case Design | April 20 | April 22 |
| Test Execution | April 23 | April 27 |
| Bug Reporting/Retest | April 24 | April 29 |
| Test Closure | April 30 | May 1 |

### **7. Entry & Exit Criteria**

#### **Entry Criteria**

* Functional specifications are available.
* Test environment is set up and stable.
* Required tools are configured and accessible.

#### **Exit Criteria**

* All test cases executed.
* All critical and high-severity bugs resolved.
* Test summary report reviewed and signed off.

### **8. Risks & Mitigations**

| **Risk** | **Mitigation Strategy** |
| --- | --- |
| Third-party services may be down | Use mocks or stubs during testing |
| Unexpected UI changes | Regular sync with dev team |
| Limited test data | Create reusable dummy test data |

### **9. Team Roles & Responsibilities**

* **Test Manager:** Overall planning, scheduling, and coordination
* **Test Engineers:** Test case creation and execution
* **Automation Engineer:** Script development and maintenance
* **QA Analyst:** Bug reporting, documentation, and reporting