# TEST PLAN

Project Name : E-commerce website [AutomationtestStore](https://automationteststore.com/)2.0

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 Date : [10/06/2025].

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# Introduction

**This test plan outlines the testing approach for validating the functionality of the e-commerce application. It includes manual testing to verify basic functionalities and automation testing using Selenium WebDriver to ensure regression reliability.**

**Objectives and Tasks**

**Objectives**

* **Validate critical e-commerce functionalities like login, search, add to cart, and checkout.**
* **Identify and log defects during manual testing.**
* **Automate high-priority test cases for faster regression testing.**

**Tasks**

* **Test environment setup**
* **Manual test case writing and execution**
* **Bug reporting and verification**
* **Selenium WebDriver automation**
* **TestNG framework integratio**
* **Reporting**

# Scope

**in Scope**

* **Login functionality**
* **Search functionality**
* **Navigating between different pages**
* **Add to cart and remove from cart**
* **Checkout process**
* **Contact Us form**
* **Responsive design (cross-browser compatibility)**

# **Features to Be Tested**

|  |  |
| --- | --- |
| **Feature** | **Description** |
| **Login** | **Verify valid and invalid login scenarios** |
| **Search** | **Search for products using keywords** |
| **Cart** | **Add, view, and remove products** |
| **Checkout** | **Fill checkout form and submit** |
| **Contact Us** | **Submit query via contact form** |
| **Alerts, Popups** | **Handle and verify alerts** |
| **Dropdowns/Checkboxes** | **Select and validate UI elements** |
|  |  |

# Approach

**Manual Testing**

* **Write test cases in Excel/Google Sheets**
* **Execute test cases manually**
* **Log bugs using a bug report sheet or tool (JIRA, Google Sheet)**

**Automation Testing**

* **Use Selenium WebDriver + Java**
* **TestNG as Test Runner**
* **Page Object Model (POM) for structure**
* **Automate only stable and repetitive test cases**
* **Generate test reports.**

# Test Deliverables

|  |  |
| --- | --- |
| **Deliverable** | **Format** |
| **Test Plan** | **PDF/Word Document** |
| **Test Cases** | **Excel/Google Sheet** |
| **Bug Report** | **Excel/JIRA** |
| **Selenium Scripts** | **Java files, GitHub repo** |
| **testng.xml** | **TestNG suite file** |
| **Final Report** | **Test Summary Report (PDF/HTML)** |
|  |  |

# Environmental Needs

|  |  |
| --- | --- |
| **Item** | **Specification** |
| **OS** | **Windows 10/11** |
| **Browser** | **Chrome, Firefox, Edge** |
| **Tools** | **Selenium WebDriver, Java, Maven, TestNG, IntelliJ/Eclipse** |
| **Others** | **ExtentReports or Allure for reports** |

# Roles and Responsibilities

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| Shiva Kumar | Test Manager | * Monitoring project progress. * Management of budget and support resources. * Assess and prioritize project risks/tasks. * Resolve communication issues and conflicts effectively. |
| Pooja Yadav | Test Manager | * Monitoring project progress. * Management of budget and support resources. * Assess and prioritize project risks/tasks. * Resolve communication issues and conflicts effectively. |
| Sahil | Test Engineer | * Understand customer requirements * Write Test plan, Test scenarios & Test cases * Executing the Test cases. * Defect tracking and reporting. |
|  |  |  |

# Schedule

|  |  |  |
| --- | --- | --- |
| **Phase** | **Start Date** |  |
| Test Plan Creation | 10/06/26 |  |
| Manual Testing | [10/06/26- 11/06/26] |  |
| Bug Reporting & Fixes | [11/06/26] |  |
| Automation Scripting | [12/06/26] |  |
| Review and Final Report | [13/06/26 - 14/06/26] |  |

# Entry and Exit Criteria

**Entry Criteria**

* **Application is deployed**
* **Functional requirement document is shared**
* **Environment is set up**

**Exit Criteria**

* **All critical test cases executed**
* **Major bugs resolved**
* **Automation tests have 90%+ pass rate**

# Risks and Mitigations

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| **Unstable application** | **Automate only stable modules** |
| **Delay in environment setup** | **Use demo environments if needed** |

# Tools Used

* **Selenium WebDriver**
* **TestNG**
* **Maven**
* **ChromeDriver**
* **Excel (for manual test cases)**
* **GitHub (for code versioning)**

# **MindMap :**

