TEST PLAN

Project Name : E-commerce website AutomationtestStore2.0

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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 integration

- 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 :

Write the Test Plan of the Project

Create MindMap for Project

Start With Manual Testing

Verify the web application manually

Write Test Cases and Create the Test Scenario Report

Find Bugs and Create Bug Report

SeleniumEcommerceProject

Start Automation Testing using Selenium

In Selenium web Driver Write All Scripts — Automate the web Application

Push All files to Github

Create Overall Summary Report of Project

Review your Project by your Mentors

Finally Record The Presentation Video