**PROJECT DOCUMENTATION :**

Basic Information :

Build Week Project

(<https://health-hub-rust.vercel.app/>)

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**TEST PLAN**

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**1. Introduction**

This test plan outlines the approach for testing the core functionalities of the e-commerce website, ensuring a seamless user experience across various features, including navigation, search, product page, cart page, checkout, and responsiveness.

**2. Objectives**

● Validate the correct functionality of key website components.

● Identify and report defects to improve usability and performance.

● Automate critical workflows using Selenium with the Page Object Model (POM) framework and Extent Reports.

**3. Testing Scope:**

**Manual and Automation Testing:**

**Manual Testing:**

● Manually validate all workflows, focusing on critical features like the home page, user authentication, search and filtering, product details, cart and checkout, contact us, and Footer Links.

**Automation(Selenium):**

● Automate critical workflows like user authentication, search and filtering, product details, cart, and checkout.

● Use Selenium for regression testing to ensure new updates don’t break existing functionality.

**POM via Selenium:**

**Home Page Functionality:**

● Validate the functionality of navigation menus

● Test the dynamic content, such as promotional banners and featured products.

**Product Search and Filter Functionality:**

● Automate product searches and ensure that category, price, and rating filters return the correct results.

● Validate the sorting functionality(e.g. price, best sellers).

**Checkout Process:**

● Automate adding items to the cart and completing checkout.

**Extent Reports :**

* Capture test case execution results (Pass/Fail/Skip).

**4. Testable Features:**

● Home Page

● User Authentication

● Search and Filtering

● Product Details

● Cart and Checkout

● Contact Us

● Footer Links

**5. Testing Approach:**

**Testing Types:**

● **Functional Testing:** Verify the correct behavior of features.

● **Navigate Testing:** Validate error handling for invalid inputs.

**Testing Methodologies:**

**Selenium :**

● POM : For reusable Test Cases.

● Extent Reports : For Test Case Execution Result.

**6. Roles/Responsibilities:**

**Team Lead:** Jatinder Kumar

**Responsibilities:**

● Create and manage the test plan.

● Create detailed test scenarios for functional workflows.

● Develop comprehensive test cases to cover manual testing.

● With the help of Selenium, automation validates the functionality of the website.

**7. Test Schedule**

| **Task** | **Duration** |
| --- | --- |
| Test Plan Creation and Mind Map | 6-5-2025 |
| Test Scenario and Case Creation | 7-5-2025 |
| Text Execution | 8-5-2025 |
| Automation Script Creation | 9-5-2025 |

**8. Test Deliverables**

● **Test Plan:** Document outlining testing strategy and objectives.

● **Test Scenarios:** High-level cases for workflow.

● **Test Cases:** Detailed test cases for manual execution.

● **Bug Report:** List of identified bugs with severity and resolution status.

● **Test Summary Report:** A comprehensive report summarizing testing activities and results.

**9. Entry and Exit Criteria**

**Entry Criteria:**

● Access to a stable website environment.

● Availability of test data for workflows.

**Exist Criteria:**

● All critical test cases were executed successfully.

● No unresolved high-priority defects.

● Test summary report submitted.

**10. Tools**

● **Manual Testing:** Google Sheets/Docs for test cases and bug tracking.

● **Automation Testing:** Selenium

● **Visually Represent:** Mind Map

**11. Risks and Mitigation Plans**

| **Risk** | **Mitigation Strategy** |
| --- | --- |
| Unstable Website | Perform testing during stable hours or scheduled builds. |
| Dynamic Elements | Use robust locators(CSS, XPath) and implement waits. |
| Time Constraints | Prioritize critical workflows for automation and manual testing. |

**12. Approvals:**

Masai will send different types of documents for client Approval, like below:

● **Test Plan**

● **Scenarios**

● **Scripts**

● **Reports**

Testing will only continue to the next steps once these approvals are done.