**Shine Haven**

**Web Application - END TO END TESTING PROCESS**

**PROJECT NAME: SHINE HEAVEN**

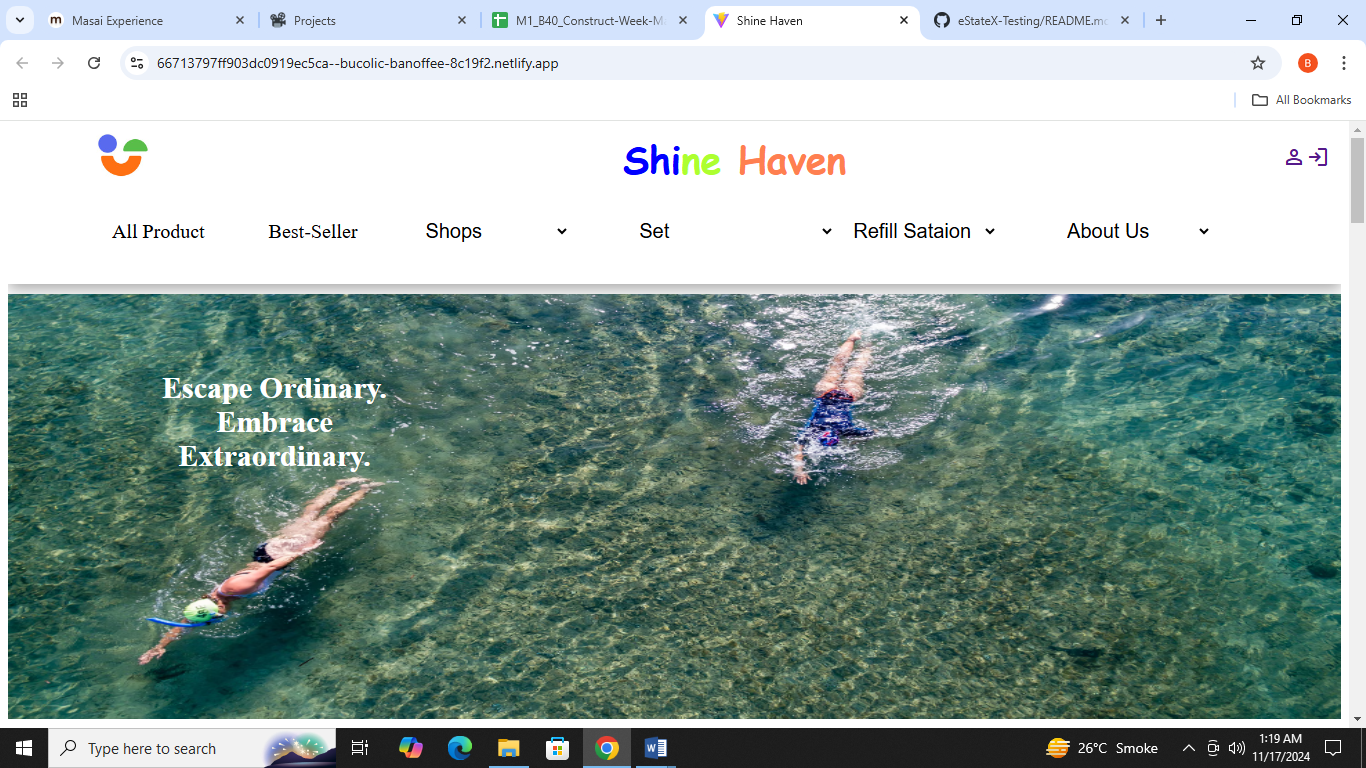
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**TESTER: BISHAKHA NAYYAR**

# WELCOME TO SHINE HEAVEN TESTING REPOSITORY, a comprehensive manual testing project for a web application designed for the sale of hydrating sanatizers. This project showcases my expertise in software testing by covering the full lifecycle of manual testing, including test planning, execution, and reporting.

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**This is the logo.**

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# 📄 Project Overview

SHINE HAVEN is a real estate web application that enables users to:

Register and log in securely. Search and filter products by categories. Provides best selling products as per user requirements. This repository contains all essential testing artifacts created to ensure the application meets quality standards.

# 🎯 Testing Objectives

Ensure functionality of critical modules, including login, registration and search. Validate user experience by identifying navigation and UI/UX issues. Verify security by testing input validation and form submissions. Document bugs and recommend fixes for failed test cases.

## **Introduction**

The purpose of this test plan is to outline the testing strategy, scope, approach, and resources needed for testing the Shine Haven website. Shine Haven is a lifestyle and wellness platform aimed at providing users with health resources, wellness tools, and a community space for personal development.

# 🛠️ Key Features of the Testing Process

## **Test Planning:**

Comprehensive Test Plan document to define the scope, objectives, and testing approach. Detailed RTM (Requirements Traceability Matrix) to map test cases to requirements. Test Case Design:

40 meticulously written test cases covering functional and non-functional requirements. Categorized into High, Medium, and Low priority levels. Test Execution and Reporting:

Detailed execution summary with a 60% pass rate and insights into failed test cases. Consolidated Bug Report with reproduction steps and screenshots for failed scenarios. Test Artifacts:

Test Scenarios, Execution Report, Bug Summary, and a Final Presentation showcasing key results.

# 🧠 Skills Demonstrated

## **Manual Testing:**

Writing and executing test plans, test cases, and scenarios. Reporting issues using Bug Life Cycle principles. Documentation:

Creating professional RTM, Execution Reports, and Test Summary documents. Attention to Detail:

Identifying issues in UI/UX, functionality, and navigation. Problem Solving:

Recommending fixes for failed cases to improve the overall quality of the application.

# 🚀 Techniques and Tools Used

## **Testing Tools:**

Zephyr for test management Jira for bug tracking Security Testing:

Performed basic-to-advanced security testing using Burp Suite. Communication and Presentation:

Presented findings in a professional report with actionable insights.

# 📊 Test Execution Summary

**Metric Count**

Total Test Cases Executed 20

Test Cases Passed 24

Test Cases Failed 16

Pass Percentage 60%

# Test Plan

## **Table of Contents**

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## **1. Introduction**

### **Overview**

The Shine Haven website is an e-commerce platform designed to sell products such as home decor, lifestyle items, and personalized gifts. This test plan outlines the strategy, scope, and approach for testing the Shine Haven website to ensure it meets functional and non-functional requirements.

### **Purpose**

The purpose of this test plan is to define the testing approach for Shine Haven’s website, ensuring that it works as expected across all devices, browsers, and platforms. The plan will cover both functional and non-functional aspects such as performance, security, and usability.

### **Scope**

This test plan applies to the following components:

* User Interface (UI) and User Experience (UX)
* Functional Testing (checkout, search, navigation, etc.)
* Performance Testing
* Security Testing
* Compatibility Testing (cross-browser, mobile responsiveness)
* Integration Testing (payment gateways, APIs)

### **Objective**

The objective of testing is to ensure:

* The website meets functional requirements as defined in the specification document.
* The website works smoothly and performs well under load.
* It provides a secure experience for users (e.g., protection of sensitive data).
* It delivers a seamless user experience on all supported browsers and devices.

## **2. Test Strategy**

### **Types of Testing**

The following types of testing will be performed on the Shine Haven website:

1. **Functional Testing**  
   Ensures all features function according to the specifications, including:
   * Registration/Login/Logout
   * Product browsing/search
   * Cart and checkout functionality
   * Payment gateway integration
   * Order confirmation and tracking
2. **Non-Functional Testing**  
   Includes:
   * **Performance Testing:** To evaluate load times and responsiveness under varying traffic loads.
   * **Security Testing:** To ensure secure user transactions and data protection.
   * **Usability Testing:** To verify the ease of navigation and user interface design.
3. **Compatibility Testing**  
   Ensures that the website is compatible with multiple browsers, devices, and screen sizes:
   * Cross-browser compatibility (Chrome, Firefox, Safari, Edge)
   * Mobile responsiveness (iOS and Android devices)
4. **Regression Testing**  
   Verifies that new code changes do not negatively affect existing functionality.
5. **Smoke Testing**  
   Basic tests to ensure that the critical functionality of the website is working post-deployment.

### **Testing Levels**

1. **Unit Testing**  
   Performed by developers to ensure individual modules/functions work as expected.
2. **Integration Testing**  
   Ensures that all components work together, including APIs and third-party services.
3. **System Testing**  
   Testing of the entire system as a whole.
4. **User Acceptance Testing (UAT)**  
   Performed by end-users to verify that the system meets business requirements.
5. **Beta Testing**  
   Testing with a limited number of external users for real-world feedback before the official launch.

### **Testing Tools**

* **Selenium** – Automated functional testing
* **JMeter** – Performance testing
* **OWASP ZAP** – Security testing
* **BrowserStack** – Cross-browser and device testing
* **Google Lighthouse** – Performance and SEO testing

## **3. Test Scope**

### **In-Scope Features**

* **Homepage**  
  Navigation, banners, promotional content.
* **Product Pages**  
  Product details, images, availability, and reviews.
* **Search Functionality**  
  Keyword-based search, filtering, sorting.
* **Shopping Cart**  
  Add, remove, and modify items, view cart, and proceed to checkout.
* **User Registration/Login/Logout**  
  Account creation, authentication, and user session management.
* **Checkout Process**  
  Cart review, payment gateway, shipping options.
* **Order Confirmation**  
  Order summary, payment confirmation, email notifications.
* **Payment Gateway Integration**  
  Integration with third-party payment systems like PayPal, Stripe, etc.
* **Account Management**  
  User profile editing, password recovery, order history.

### **Out-of-Scope Features**

* **Admin Panel**  
  Testing of the backend admin functionalities is not within the scope of this testing plan.
* **Third-Party Integrations Not Provided**  
  Features or services not included in the initial scope (e.g., loyalty program, third-party shipping services) are excluded.

## **4. Test Approach**

### **Test Environment**

Testing will be performed in the following environments:

* **Staging Environment:** For all pre-production testing.
* **Production Environment:** Only for smoke tests after deployment.

The website will be tested on the following operating systems and browsers:

* OS: Windows, macOS, iOS, Android
* Browsers: Chrome, Firefox, Safari, Edge
* Mobile Devices: iPhone (iOS), Samsung Galaxy (Android)

### **Test Data**

* User profiles (with different roles such as guest, registered user)
* Product details (including variations like price, size, and availability)
* Payment information (mock data for testing payments)
* Order history (for testing tracking and confirmation)

### **Test Deliverables**

1. **Test Cases and Test Scripts**  
   Detailed test cases for each feature and functional area.
2. **Test Results and Logs**  
   Comprehensive results from each round of testing.
3. **Bug Reports**  
   Detailed issues identified during testing, with steps to reproduce, severity, and status.
4. **Test Summary Report**  
   A summary of all testing activities, coverage, and final results.

## **5. Test Schedule**

| **Task** | **Start Date** | | **End Date** | **Responsible** |
| --- | --- | --- | --- | --- |
| Test Plan Creation | 13.11.24 | | 18.11.24 | Test Lead |
| Test Case Design | | 13.11.24 | 18.11.24 | QA Team |
| Functional Testing | 13.11.24 | | 18.11.24 | QA Team |
| Performance Testing | 13.11.24 | | 18.11.24 | Performance Engineer |
| Security Testing | 13.11.24 | | 18.11.24 | Security Expert |
| Compatibility Testing | 13.11.24 | | 18.11.24 | QA Team |
| Regression Testing | 13.11.24 | | 18.11.24 | QA Team |
| User Acceptance Testing (UAT) | 13.11.24 | | 18.11.24 | End Users |
| Final Report & Sign-off | 13.11.24 | | 18.11.24 | Test Lead |

## **6. Resources and Roles**

* **Test Lead:** Manages testing activities, resources, and test progress.
* **QA Engineers:** Write and execute test cases, log defects, and ensure test coverage.
* **Performance Engineer:** Focus on load, stress, and performance testing.
* **Security Expert:** Conducts security audits and tests.
* **UAT Participants:** End users for acceptance testing.
* **Developers:** Fix issues identified during testing.

## **7. Risk Management**

Potential risks include:

* **Timeline Delays:** Potential delays in development or testing can impact the testing schedule.
  + Mitigation: Buffer time in schedule, early engagement with development teams.
* **Environment Setup Issues:** Availability of staging or production environments might be delayed.
  + Mitigation: Ensure environment readiness before test execution starts.
* **High Number of Defects:** Critical bugs found late in the testing cycle.
  + Mitigation: Frequent communication with development teams, early identification of risks.

## 8. Approval and Sign-off

This test plan is approved by:

| **Name** | **Role** | **Signature** | **Date** |
| --- | --- | --- | --- |
| bishakha | Test Lead | [Signature] | [18.11.24] |
| Anjali shaw | Project Manager | [Signature] | [18.11.24] |
|  |  |  |  |

### **1. Functional Testing - Test Scenarios & Test Cases**

#### **Test Scenarios for Functional Testing**

1. **Verify that all links on the homepage navigate to the correct pages.**
2. **Test the search feature using different keywords.**
3. **Verify that the correct products are displayed for a search keyword.**
4. **Ensure that the product filter (by category, price, etc.) works correctly.**
5. **Verify that the "Add to Cart" functionality is working correctly.**
6. **Ensure that the checkout process works without any errors.**

| **Test Case ID** | **Test Scenario** | **Test Case Description** | **Test Data** | **Expected Result** | **Pass/Fail** |  |
| --- | --- | --- | --- | --- | --- | --- |
| TC1 | Link Navigation | Verify if homepage links direct to correct pages | Click each link on the homepage | Each link should open the correct page | Pass/Fail | - |
| TC2 | Search Function | Test search feature using a keyword | "Shine Haven" | List of relevant products should be displayed | Pass/Fail | - |
| TC3 | Product Filter | Test filter by category | "Jewelry" | Only jewelry products should be displayed | Pass/Fail | - |
| TC4 | Add to Cart | Add product to cart | Add any product to cart | Product should be added to the cart | Pass/Fail | - |
| TC5 | Checkout Process | Test the checkout process | User details, Product | Checkout should process the order | Pass/Fail | - |
| TC6 | Sign Up | Verify if user can register successfully | Valid email, Password | Account should be created | Pass/Fail |  |

Below is a detailed breakdown of the requested test scenarios, test cases, and defect reporting format for Functional and Usability testing of the Shine Haven website.

### 1. **Functional Testing - Test Scenarios & Test Cases**

#### **Test Scenarios for Functional Testing**

1. **Verify that all links on the homepage navigate to the correct pages.**
2. **Test the search feature using different keywords.**
3. **Verify that the correct products are displayed for a search keyword.**
4. **Ensure that the product filter (by category, price, etc.) works correctly.**
5. **Verify that the "Add to Cart" functionality is working correctly.**
6. **Ensure that the checkout process works without any errors.**
7. **Verify the 'Sign Up' and 'Login' functionality for new and returning users.**
8. **Ensure the user can successfully reset the password.**
9. **Verify that the product details page loads with the correct information.**
10. **Verify the correct display of the shopping cart contents and total price.**
11. **Test the newsletter subscription feature.**
12. **Check the accuracy of user information during registration.**
13. **Test the "Contact Us" form submission functionality.**
14. **Verify if all social media links are functioning.**
15. **Ensure the website is responsive on different devices (Desktop, Tablet, Mobile).**

#### **Test Cases for Functional Testing**

| **Test Case ID** | **Test Scenario** | **Test Case Description** | **Test Data** | **Expected Result** | **Pass/Fail** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- |
| TC1 | Link Navigation | Verify if homepage links direct to correct pages | Click each link on the homepage | Each link should open the correct page | Fail |  |
| TC2 | Search Function | Test search feature using a keyword | "Shine Haven" | List of relevant products should be displayed | Fail | - |
| TC3 | Product Filter | Test filter by category | "Jewelry" | Only jewelry products should be displayed | Pass | - |
| TC4 | Add to Cart | Add product to cart | Add any product to cart | Product should be added to the cart | Pass | - |
| TC5 | Checkout Process | Test the checkout process | User details, Product | Checkout should process the order | Fail | - |
| TC6 | Sign Up | Verify if user can register successfully | Valid email, Password | Account should be created | Pass | - |
| TC7 | Login | Test Login functionality | Valid credentials | User should be logged in | Pass | - |
| TC8 | Password Reset | Test password reset functionality | Registered email | Password reset email should be sent | Pass | - |
| TC9 | Product Details | Verify product details page | Select any product | Page should display correct details | Fail | - |
| TC10 | Shopping Cart | Verify cart total calculation | Add products to cart | Cart total should reflect the correct price | Pass | - |
| TC11 | Newsletter | Test newsletter subscription | Valid email | User should receive a confirmation email | Pass | - |
| TC12 | User Information | Verify user details on registration page | First name, Last name, Email | User details should be saved | Pass | - |
| TC13 | Contact Us | Test Contact Us form | Name, Email, Message | Form should be submitted successfully | Pass | - |
| TC14 | Social Media Links | Verify social media links | Click each social media icon | Correct social media page should open | Fail | - |
| TC15 | Responsiveness | Test website on different devices | Desktop, Mobile, Tablet | Site should be responsive on all devices | Pass | - |

### 2**. Usability Testing - Test Scenarios & Test Cases**

#### **Test Scenarios for Usability Testing**

1. **Evaluate the ease of navigation through the website.**
2. **Assess the clarity and accessibility of product information.**
3. **Evaluate the website's layout and user interface (UI) for intuitiveness.**
4. **Test the speed of loading pages on different devices.**
5. **Assess if the website provides helpful tooltips or guides for new users.**
6. **Check if the checkout page is user-friendly.**
7. **Verify if the website provides feedback for every action (e.g., form submission, add to cart).**
8. **Evaluate the search results page for clarity and relevance.**
9. **Check if the product images are clear and high-quality.**

| **Test Case ID** | **Test Scenario** | **Test Case Description** | **Test Data** | **Expected Result** | **Pass/Fail** |  |
| --- | --- | --- | --- | --- | --- | --- |

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| --- | --- | --- | --- | --- | --- | --- |
| TC1 | Ease of Navigation | Test the ease of navigating through the homepage | Click on various menu options | User should easily find and access relevant sections | Pass | - |

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| --- | --- | --- | --- | --- | --- | --- |
| TC2 | Product Information Clarity | Check the clarity of product details | View product page | Product details (price, description, specs) should be clearly visible | Pass | - |

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| --- | --- | --- | --- | --- | --- | --- |
| TC3 | UI Layout | Test the intuitiveness of the website layout | Navigate homepage | Homepage should be clean and easy to navigate | Fail | - |

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| --- | --- | --- | --- | --- | --- | --- |
| TC4 | Page Loading Speed | Test the page loading speed | Open homepage, product page | Pages should load within 3-5 seconds | Pass | - |

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| --- | --- | --- | --- | --- | --- | --- |
| TC5 | Tooltips or Guides | Check for tooltips or guides for new users | Navigate through product search | Helpful tips should be available if needed | Pass | - |

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| --- | --- | --- | --- | --- | --- | --- |
| TC6 | Checkout Usability | Test the ease of completing checkout | Add items to cart | Checkout process should be easy to follow |  | - |

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| --- | --- | --- | --- | --- | --- | --- |
| TC7 | Action Feedback | Test if the website provides feedback on actions | Add product to cart | Confirmation message should appear | Fail | - |

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| --- | --- | --- | --- | --- | --- | --- | --- |
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### 3. **Defect Report**

| **Defect ID** | **Test Case ID** | **Defect Description** | **Severity** | **Status** | **Assigned To** | **Date Reported** | **Date Resolved** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D1 | TC1 | Homepage link redirects to the wrong page | Critical | Open | bishakha | 2024-11-18 | - | Needs urgent attention |
| D2 | TC2 | Search returns irrelevant results | High | Open | bishakha | 2024-11-18 | - | Requires re-indexing |
| D3 | TC5 | Page loading time > 10 seconds | High | Open | bishakha | 2024-11-18 | - | Performance issue |
| D4 | TC9 | Product details page is missing key information (e.g., size) | Medium | Open | bishakha | 2024-11-18 | - | Needs UI improvement |
| D5 | TC14 | Navigation menu disappears on mobile view | High | Open | bishakha | 2024-11-18 | - | Mobile view bug |
| D6 | TC8 | Search results show out-of-stock items first | Medium | Open | bishakha | 2024-11-18 | - | Fix product sorting |
| D7 | TC6 | Checkout page throws error on payment | Critical | Open | bishakha | 2024-11-18 | - | Fix payment gateway |
| D8 | TC10 | Cart total not updating after adding/removing items | High | Open | bishakha | 2024-11-18 | - | Needs calculation fix |

# 👤 About Me

## I am bishakha nayyar, a passionate Software Development Engineer in Testing (SDET), currently pursuing advanced testing skills at Masai School. My expertise lies in manual and security testing, JavaScript, and testing documentation.

# Email\_id: bishakhanayyar.2006@gmail.com