Shine Haven

Web Application - END TO END TESTING PROCESS

PROJECT NAME: SHINE HEAVEN

URL:

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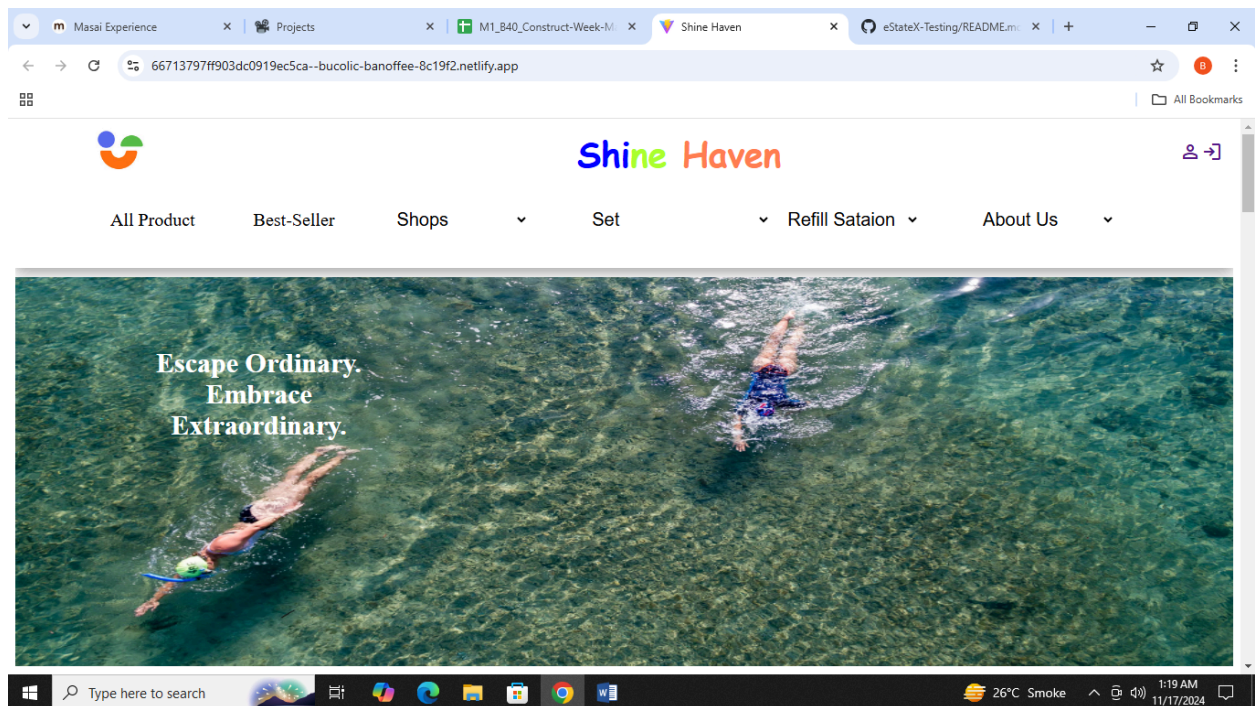
TESTER: BISHAKHA NAYYAR

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.
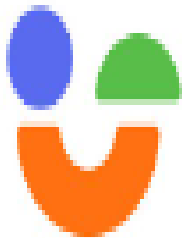
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📄 Project Overview

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

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.

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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.

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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.

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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

Task	Start Date	End Date	Responsible
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	-

Test Case ID	Test Scenario	Test Case Description	Test Data	Expected Result	Pass/Fail	Remarks
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
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 -
TC2	Product Information Clarity	Check the clarity of product details	View product page	Product details (price, description, specs) should be clearly visible	Pass -
TC3	UI Layout	Test the intuitiveness of the website layout	Navigate homepage	Homepage should be clean and easy to navigate	Fail -
TC4	Page Loading Speed	Test the page loading speed	Open homepage, product page	Pages should load within 3-5 seconds	Pass -
TC5	Tooltips or Guides	Check for tooltips or guides for new users	Navigate through product search	Helpful tips should be available if needed	Pass -
TC6	Checkout Usability	Test the ease of completing checkout	Add items to cart	Checkout process should be easy to follow	-
TC7	Action Feedback	Test if the website provides feedback on actions	Add product to cart	Confirmation message should appear	Fail -

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.

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