Test Strategy for “Shaddy Meadows B&B” for Company house

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Introduction:

The purpose of this test strategy is to outline the approach, scope, resources, and schedule for the testing activities of the “Shaddy Meadows” restful booker website. This strategy ensures that the website delivers the best user experience, is dependable, secure, and have optimum performance.

Scope and overview:

“Shaddy Meadows” is portal for booking rooms, post checking availability for rooms. Users can select rooms, furnish their details and proceed for booking room followed by getting confirmation message. There is additional functionality like “Contact Us” form, Location, Amenities and Admin options etc

Shaddy Meadows B&B can be accessed at:

[Restful-booker-platform demo](https://automationintesting.online/)

Test Approach:

The Quality engineering will be performed on the “Shaddy Meadows” web application. Since this is ecommerce type web application, it needs to be evaluated for functional and non-functional testing on the given functionalities for optimum performance. Testing approach has been designed to provide best user experience, website performs best under various conditions, maintains security and data protection, website is compatible across combinations of digital channels to be in line with market demand and user demographics. Testing will involve combination of **manual and automation testing**. Complex and new functions along device testing will be performed manually, while regression, repetitive, test for various digital channels and pipeline related tests will be done in automated way.

**Given Functional Testing to be performed:**

1. TC001\_BookNowTest - Automate full room booking process
2. TC002\_SubmitMessageTest - Validates the contact form with valid input
3. TC003\_NegativeSubmitMessageTest - Tests field validation with incorrect contact form input
4. TC004\_NegativeBookNowTest - Negative test for invalid room booking data
5. TC005\_SubmitDDT - Data-driven contact form test using Excel input
6. TC006\_HappyDaysTest - UI verification for user-friendly field visibility

**Considering Missing Functionality for above:**

Gap 1: User login and registration functionality missing

Gap 2: All the information of Shaddy M is in single page.

Gap 3: Field validations are not clearly mentioning the fields needs to be rectified.

Gap 4: User can book rooms for already passed days from today

Gap 5: Payment functionality not there

**Test for non-functional requirement:**

1. Non-functional verification for page load time

2. Non-functional verification for resize of page to Desktop view and Mobile

view

Testing Types:

The following testing types will be performed during the testing of the “Shaddy Meadows” web application:

**Functional testing:** This ensures that the application functions correctly according to the Shaddy Meadows agreed requirements. It includes the testing of user login, product browsing, shopping cart check and checkout process.

**Usability testing:** This testing focuses on user experience, ease of use, and user interface design specific to ecommerce operations.

**Performance testing:** This testing evaluates the system's responsiveness and resizing for Shaddy Meadows.

**Compatibility testing:** This type of testing checks if the Shaddy Meadows application functions correctly across different browsers, devices, and operating systems. To make sure that application is accessible via various digital channels.

Tools and Frameworks for Automation:

This project quality engineering necessitate comprehensive suite of tools and automation frameworks for test management, automation testing and performance testing etc. The reasons for selecting each tool for the “Shaddy Meadows” are provided.

1. **Selenium** browser automation tool will be used for functional testing. Team is proficient in Selenium and Java and can use the knowledge base and forums in case of any impending blockers. Selenium, being open source, is ideal for web-based application. Its capability like Project Object model design, Jenkins for CI/CD and test execution reporting tool like TestNG gives it robust automation solution. Selenium can be integrated into test automation framework comprising Maven, Test NG, Shaddy Meadows and Jenkins.
2. **Shaddy Meadows** for will be utilized for mobile application testing to access the wide array of browsers, versions, devices and operating systems.
3. **Jenkins** can be leveraged for CI/CD activity for early feedback, increased test efficiency, coverage and automated run of test suites with every check-in of codes.

7. **Jira and Confluence** for test management, collaboration and document management

8. **GitHub** will be used as project repository for collaboration, sharing and complete integration with CI/CD.

Release Management:

In this section, a plan for release management is outlined to aid with version history maintenance.

Risks and Mitigations:

The Shaddy Meadows application has number of risks which has been identified, and mitigation strategy has been defined below for application to perform reliably, securely and as per user satisfaction.

Risk 1:There is a risk that **inadequate user authentication** could lead to unauthorized access and account takeovers.

Mitigation: Implement **strong user authentication mechanisms**, such as multi-factor authentication (MFA) and account lockout policies.

Risk 2: There is a risk that **application bugs and glitches** could negatively affect the user experience and site functionality.

Mitigation: Implement **a comprehensive testing strategy**, including unit, integration, system, and user acceptance testing.

Risk 3: There is a risk that the application **may experience downtime** during peak traffic periods, leading to loss of sales and customer trust.

Mitigation: **Conduct load and performance testing** to identify and address performance bottlenecks.

Risk 4: There is a risk that **security vulnerabilities** could be exploited, leading to data breaches and compromised customer information

Mitigation : Implement robust **security measures** such as SSL/TLS, firewalls, intrusion detection systems, and regular security patches

Risk 5: There is a risk that **integration issues** with other systems (e.g., Payment or shipping Integration) could cause data discrepancies and operational inefficiencies.

Mitigation: **Test integrations** thoroughly, use mock services during development, monitor third-party services.

Risk 5: Accessibility challenges faced by **older adults and individuals with disabilities**.

Mitigation: Implement Web Content Accessibility Guidelines (WCAG 2.1 or 2.2) standards

# Test and Schedules:

**<Representative>**

Planning Phase : 2 weeks

Test Case Development: 1 weeks

Test Environment Setup: 0.5 week

Functional Testing: 1 weeks

Non-Functional Testing: 0.5 weeks

User Acceptance Testing: 0.5 weeks

Regression Testing: Ongoing, as required

Bug Fixes and Re-testing: As required

**Entry and Exit Criteria**

Entry Criteria:

- Test environment is set up.

- Test data is prepared.

- Test cases are reviewed and approved.

- Development is complete and stable build is available.

Exit Criteria:

- All critical and high-severity defects are resolved.

- Functional and non-functional testing is completed.

- UAT is signed off.

- Regression testing is completed without critical issues.

**Deliverables**

- Test Plan

- Test Cases

- Test Scripts

- Test Data

- Test Reports

- Defect Logs

- Final Test Summary Report

**Communication and Reporting**

- Weekly status meetings with stakeholders.

- Daily updates to the project team during the testing phase.

- Test summary reports at the end of each test cycle.

- Immediate reporting of critical issues.

Review and Approvals:

The many stakeholders review and sign off on the various activity areas.

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