

# Test Plan

**Project Name:** Homestay Website Testing

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## Table of Contents

1. Introduction
  2. Objectives
  3. Scope
  4. Test Strategy
  5. Test Environment
  6. Resources
  7. Risk and Mitigation
  8. Test Deliverables
  9. Entry and Exit Criteria
  10. Approval
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## 1. Introduction

This document outlines the testing approach, strategy, and scope for the Homestay Website project. It includes details like the objectives, test schedule, test scenarios, and resource allocation. The Homestay Website allows Guests to book stays, Caretakers to manage bookings, and House Owners to monitor homestay activities.

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## 2. Objectives

- Validate the functionality, usability, and security of the Homestay Website.
  - Ensure smooth user experiences for Guests, Caretakers, and House Owners.
  - Identify and address potential risks to ensure accurate and efficient booking management.
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## 3. Scope

This test plan covers the following:

1. **Functional Testing:** Validating core functionalities for Guest, Caretaker, and House Owner roles.
  2. **Usability Testing:** Ensuring ease of use for all actors across the website.
  3. **Performance Testing:** Evaluating system performance during simultaneous bookings.
  4. **Compatibility Testing:** Ensuring compatibility across browsers and devices.
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## 4. Test Strategy

### Testing Types:

#### a. Functional Testing:

- Guest Sign-Up, Login, Booking, and Notifications.
- Caretaker Booking Management and Payment Updates.
- House Owner Viewing Bookings and Guest Information.

#### b. Usability Testing:

- Ensure seamless navigation for all actors.

#### c. Security Testing:

- Validate OTP functionality for login.
- Ensure data protection during booking and payment.

#### d. Performance Testing:

- Evaluate system behavior under high booking load.

### Test Execution Schedule:

- **Day 1:** Setup test environment and create test cases for Guest functionalities.
  - **Day 2:** Execute test cases for Caretaker and House Owner functionalities.
  - **Day 3:** Perform compatibility and performance testing.
  - **Day 4:** Re-test failed cases, verify fixes, and finalize documentation.
  - **Day 5:** Review and sign off.
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## 5. Test Environment

### Devices:

- Desktop (Windows 11, macOS)
- Mobile (iOS, Android)

### Browsers:

- Chrome
- Firefox
- Microsoft Edge

### Test Data:

- Valid and invalid inputs for Guest signup, booking, and payment.
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## 6. Resources

### Testers:

- Rohit Chouhan (Lead Tester)

### Tools:

- Jira for bug tracking and test management.
  - BrowserStack for compatibility testing.
  - Postman for API testing of OTP and booking notifications.
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## 7. Risk and Mitigation

### Risks:

- Delays in bug fixes during critical test phases.
- Potential misalignment in OTP services or booking logic.

### Mitigation:

- Conduct daily progress meetings.
  - Set up mock services for OTP testing to avoid dependencies on external APIs.
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## 8. Test Deliverables

- **Test Scenarios:** Documented in an Excel sheet.
  - **Test Cases:** Covering functional and non-functional aspects, documented in a Google Sheet.
  - **Execution Reports:** Daily progress reports.
  - **Final Test Summary Report:** Includes overall test results and defect statistics.
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## 9. Entry and Exit Criteria

### Entry Criteria:

- All use cases are understood and documented.
- Test environment is set up and ready.
- Test cases are reviewed and approved.

### Exit Criteria:

- All planned test cases executed.
- Critical and high-priority defects are resolved.
- Final test summary report is reviewed and signed off.

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## 10. Approval

- **Test Lead:** Rohit Chouhan
- **Project Manager:** Pooja Yadav
- **Stakeholders:** Subhiksha Shetty