| **TEST PLAN** **Project Name: Homestay Management System** |
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| **Introduction** |
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This document outlines the testing strategy, scope, schedule, and deliverables for the Homestay Management System, ensuring robust functional testing to verify the use cases defined for Guests, Caretakers, and House Owners.

**Actors in the system:**

* Guest
* Caretaker
* House Owner

| **Objectives** |
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**The objective of the test plan is to validate the key functionalities of the Homestay Management System:**

* **User sign-up and login using OTP.**
* **Booking management by Guests, including viewing, modifying, and canceling bookings.**
* **Booking and payment management by the Caretaker.**
* **Booking overview for the House Owner.**

| **Scope** |
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**The testing covers:**

* **Functional testing of all defined use cases.**
* **Usability testing of the website for seamless interaction.**
* **Validation of SMS notifications for booking confirmation.**

| **Testable features:** |
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**Guest functionalities:**

* **Sign-up and OTP-based login.**
* **View homestay availability and make bookings.**
* **Modify or cancel bookings.**
* **SMS notifications.**

**Caretaker functionalities:**

* **View and manage bookings.**
* **Update identity and payment details.**
* **Contact Guests.**

**House Owner functionalities:**

* **View booking details and Guest information.**

| **Testing Approach** |
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**Testing Types:**

* **Functional Testing: Verify use cases and workflows.**
* **Usability Testing: Ensure intuitive design and functionality.**
* **Regression Testing: Validate new changes do not impact existing functionalities.**

#### **Testing Methodologies:**

* **Black-box Testing: Focus on input and output validation.**
* **User Acceptance Testing (UAT): Ensure alignment with user requirements.**

#### **Testing Environment:**

* **System: Windows 11, Browser: Chrome/Firefox.**
* **Network: Stable internet connectivity.**

| **Roles/Responsibilities** |
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| **Name** | **Role** | **Responsibilities** |
| --- | --- | --- |
| Rajit Kumar | Test Engineer | 1. Write the test plan 2. Test Scenarios,test cases,and execute. |

| **Test Schedule** |
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| **Task** | **Duration** | **Time Durations** |
| --- | --- | --- |
| Test Plan creation | 2 hour | 18/11/2024 |
| Test Scenario Preparation | 1 hour | 18/11/2024 |
| Test Cases Creation | 2 hour | 18/11/2024 |
| Test Execution | 2 hour | 18/11/2024 |
| Summary Report Submission | 1 hour |  |

| **Entry and Exit Criteria** |
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The below are the entry and exit criteria for every phase of Software Testing Life Cycle.

**Requirement Analysis**

**>> Entry Criteria:**

Once the testing team receives the Requirements document and use documents of the project

Includes what functions need to be tested and how the software should behave.

**>> Exit Criteria:**

The testing team should thoroughly explore and understand each requirement listed in the

documents. Any doubt or uncertainties regarding the requirements should be address and clarified

To ensure that the testing team has a clear understanding of what needs to be tested and how it

Should behave.

**Test Planning:**

**>> Entry Criteria:**

Testable Requirements derived from the given Requirements documents.Test Plan document

Includes the Test Strategy, which provides a high-level overview of how testing will be conducted.

**>> Exit Criteria:**

Test Plan is signed-off by the Client ( )

**Test Designing:**

**>> Entry Criteria:**

The Test Plan document needs to be reviewed and approved by the client and then test Plan Document is signed-off

By the client.

**>> Exit Criteria:**

Test Scenario and Test Cases Documents are prepared , they need to be reviewed and signed-off the Client.

**Test Execution**

**>> Entry Criteria:**

Test Scenario and Test Cases document need to be reviewed and approved by the client and documents are signed-

Off by the Client-Application is ready for further Testing.

**>> Exit Criteria:**

Test case Reports,Defect Reports are ready

**Test Closure :**

**>> Entry Criteria:**

Test case Report , Defect Reports are ready

**>> Exit Criteria:**

Test Summary Reports, it overviews of the entire testing process

| **Tools** |
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The following are the list of tools we will be using in this project

**Browser Testing:** Chrome, Firefox.

**Documentation:** Google Sheets/Docs.

| **Risks and Mitigation plans** |
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The following are the list of risks possible and the ways to mitigate them.

| **Risk** | **Mitigation plans** |
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| Lack of Automation Tester | Backup Resource planning |
| No detailed requirements available | Subject matter experts available for deep understanding of functionalities |

| **Approvals** |
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Testing will proceed upon approval of:

* Test Plan
* Test Scenarios
* Test Summary Report