Test Plan

**Project Name: Bommarillu Hotel** Management and Billing System.

**Test Engineer:** Team 6

**Date:** 16/12/2023

**Prepared by:** Team 6

**Reviewed by:** Srirangam Bhavani

1. Test Objective

* The objective is to validate the functionality of the “**Bommarillu Hotel Management and Billing System**" for Booking, Payment, and Manage Records as per the given specifications.
* Final product expectations:
* Production-ready software.
* A set of stable test scripts for functional, performance, accessibility testing, and User Acceptance Testing (UAT) execution.

2. Scope of Testing:

| **Module** | **Roles** | **Description** |
| --- | --- | --- |
| Booking | User/Admin | To book rooms for new guests and issue them a unique ID. |
| Payment | User/Admin | To make payment by using guests phone number. |
| Record | Admin | Only Admin people can view records by providing valid credentials. |

a) Within Scope:

* Functional Testing
* Cross-Browser Testing

b) Out of Scope:

* User Interface
* Hardware Interface
* Software Interface

3. Test Strategy:

a) Levels of Testing:

* System Testing:
* End-to-end testing environment is similar to the production environment.
* Verify Registration, Login, Dashboard functionalities.
* User Acceptance Testing:
* Validate user access to Registration, Login and Dashboard without defects.

b) Types of Testing:

* Smoke Testing:
* Check eligibility for testing the next module.
* Sanity Testing:
* Verify fundamental functions like Registration, Login and Dashboard.

c) Test Design Technique:

* + Boundary Value Analysis (BVA)
  + Equivalence Class Partition (ECP)
  + State Transition Technique
  + Error Handling

d) Configuration Management Tool:

* + Git (Code Configuration Management – CM)

e) Terminology:

* + Test plan
  + Test case
  + Test Scenario
  + Booking
  + RTM – Requirement Traceability Matrix
  + Defect log
  + Use case
  + Menu

f) Area Planned for Automation:

* + Since Automation, testing is beyond scope, no area is planned for Automation testing.

g) List of Automation Tools:

* + No Automation tools are needed for this testing.

4. Exit and Entry Criteria:

a) Entry Criteria:

* + Code implementation is performed.
  + Requirements are defined and approved.
  + Sufficient test data is available.
  + Test cases are developed and reviewed.
  + Test Environment is ready.

b) Exit Criteria:

* + 99% of test scripts were executed.
  + The pass rate is equal to 95%.
  + No critical defects left.
  + 95% of medium severity defects closed.
  + Remaining bugs are fixed.

5. Test Deliverables:

|  |  |  |
| --- | --- | --- |
| **Before testing** | **During testing** | **After testing** |
| Test plan document | Test tool | Test Result & Reports |
| Test case document | Test data | Defect Reports |
| Test design document | RTM |  |
| Requirement document |  |  |
| Installation Guidelines |  |  |

6. Roles and Responsibilities:

|  |  |
| --- | --- |
| **Roles** | **Responsibility** |
| **Project Manager** | * Manages the whole project. * Define project direction. * Risk Management. |
| **Test Engineer** | * Writes the test cases. * Execute the test cases. * Report the defects. * Identifying the test design techniques. |
| **Senior QA** | * Taking in- charge of Quality Assurance. * Confirms whether the testing process is meeting specified. requirements or not. |
| **Configuration manager** | * Preparation of complete configuration documentation. * Plan and execute configuration management throughout the lifecycle of the project. |

7. Risks and Mitigations:

a) Risks and Contingency:

* + Ensure availability of suitable and protected guest data.
  + Meet prerequisites indicated by stakeholders.
  + Verify suitability of test data.

b) Risk and Mitigation:

* + Meet outstanding prerequisites.
  + Redefine data.
  + Review the test plan and modify components.
  + Restore data and restart.

8. Schedule:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Members** | **Estimate effort** | **Start date** | **End date** |
| Create the test specification | Test designer | 160-man hour |  |  |
| perform test execution | Tester and tester administrator | 60-man hour |  |  |
| Test report | Tester | 6-man hour |  |  |
| Test delivery | Test administrator | 13 man hour |  |  |
| Total |  | 239 man hour |  |  |

9. Hiring and Training:

* + Minimum 2 years of experience in manual testing.
  + Database knowledge.
  + 1-month training under the domain and application.

10. Test Environment:

|  |  |  |
| --- | --- | --- |
| **No** | **Resources** | **Descriptions** |
| 1 | server | Need  a database   server |
| 2 | Test tool | Develop  a test tools which can  auto generate the test result to the predefined form |
| 3 | Network | Setup a LAN gigabit and 3 internet lines with  speed at least 10Mb/s |
| 4 | Computer | At least 10 computer run windows 10,Ram,4GB,CPU 3.6Hz,Multiple browsers |
| 5 | MS tools | Test case preparation test case execution defect management ,test reporting and check list of test |

11. Assumption:

* + Exploratory testing carried out once the build is ready for testing.
  + Test case design activities performed by the QA group.
  + Performance testing is not considered.
  + Test environment and preparation activities owned by the development team.

12. Approval Information:

* + Test Lead: Sravani (Reviews test cases, test conditions, test data, and test report)
  + Test Manager: Srirangam Bhavani (Reviews the content of the test plan, test strategy, and test estimates, signs off on it)
* Signature:
  + Name: Nageswarao G
  + Role: Project Manager
  + Date: 18-12-2023

13. Test Metrics:

* Passed test cases percentage:(no. of test cases passed /no. of test cases executed) \*100
* Failed test cases percentage:(no. of test cases failed/no. of test cases executed) \*100
* Fixed defect percentage:(defects fixed/defects reported) \*100
* Accepted defect percentage:(Defects accepted as valid by dev team/Total defects reported) \*100
* Defects deferred percentage:(Defects differed for future releases/total defects reported) 100
* Critical defects percentage:(Critical defect/total defects) \*100
* Execution percentage: (no. of test cases executed / total no. of test cases) \*100.