Test Plan

<https://www.hrs.de/>  
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**Version**: 1.0

**Created**: 05/03/2024

**Last Updated**: 05/03/2024

**Status**: DRAFT

***ChangeLog***

| **Version** | **Change Date** | **By** | **Description** |
| --- | --- | --- | --- |
| version number | Date of Change | Name of person who made changes | Description of the changes made |
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### **1 Introduction**

# The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project Hotel Booking.

# The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

#### **1.1 Scope**

#### **1.1.1 In Scope**

# All the feature of website <https://www.hrs.de/> which were defined in software requirement document are need to be tested

| **Module Name** | **Applicable Roles** | **Description** |
| --- | --- | --- |
| User Registration | Customers | Allow users to create accounts, providing personal details for booking and account management. |
| User Authentication | Customers | Securely authenticate users during the sign up process by sending verification links on email addresses. |
| Homepage | Customers | Display hotel listings, promotions, and featured destinations. Allow users to navigate to different sections of the app. |
| Hotel Search | Customers | Enable users to search for hotels based on location, dates, amenities,hotels list and prefrences. |
| Room Booking | Customers | Allow customers to view room details, select available rooms, and book reservations. Include options for customization. |
| Reservation Management | Customers, Admin | **Customer:** Provide a dashboard for customers to manage their reservations.  **Admins:** Admin can access and manage all reservations. |
| User Profile | Customers | Allow customers to view and update their profiles, preferences, and booking history. |
| Payment Processing | Customers | Integrate secure payment gateways to facilitate online transactions for room reservations. |
| Admin Dashboard | Admin | A centralized dashboard for administrators to manage hotel listings, user accounts, and monitor booking activities. |
| Reporting | Admin | Generate reports on booking statistics, revenue, and other relevant metrics to aid decision-making. |
| Notifications | Customers | Send email or in-app notifications to users for booking confirmations, reminders, and updates. |
| Reviews and Ratings | Customers | Allow customers to leave reviews and ratings for hotels, enhancing user engagement and providing feedback to hotels. |
| Customer Support | Customers, Admin | Provide a support system for customers to raise queries or issues. Admins can manage and respond to customer support  Requests. |

#### 

#### **1.1.2 Out of Scope**

# These features are not to be tested because they are not included in the software requirement.

# User Interfaces

* Vacation Packages
* Currency Exchange

# Mobile Responsiveness

* Language Translation

# Website Security and Performance

### **1.2 Quality Objective**

# The test objectives are to **verify** the Functionality of website <https://www.hrs.de/>, the project should focus on testing the **Online Hotel Booking** such as Hotel Searching and booking based on location and other preferences…etc. to **guarantee** all these operations can work **normally** in a real business environment.

### 

### **1.3 Roles and Responsibilities**

# 

| **No.** | **Member** | **Tasks** |
| --- | --- | --- |
| **1.** | Test Manager | Manage the whole projectDefine project directionsAcquire appropriate resources |
| **2.** | Test | Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test ApproachExecute the tests, Log results, Report the defects. |
| **3.** | Developer in Test | Implement the test cases, test program, test suite etc. |
| **4.** | Test Administrator | Builds up and ensures test environment and assets are managed and maintainedSupport Tester to use the test environment for test execution |
| **5.** | SQA members | Take in charge of quality assuranceCheck to confirm whether the testing process is meeting specified requirements |

### 

### **2 Test Methodology**

### **2.1 Overview**

Adopting Agile test methodology for a Hotel Booking application offers several advantages, considering the specific needs and characteristics of such projects. Here are some reasons for choosing Agile testing in the context of a Hotel Booking application:

1. Evolving Requirements
2. User-Centric Focus
3. Rapid Time-to-Market
4. Continuous Integration and Deployment
5. Seasonal Demand Fluctuations
6. Feedback-Driven Improvements
7. Collaboration with Cross-Functional Teams
8. Risk Mitigation
9. Competitive Advantage
10. Agile Metrics for Performance Monitoring

**2.2 Test Levels**

In the project <https://www.hrs.de/>, there are 3 types of testing that should be conducted.

# **Integration** Testing (Individual software modules are combined and tested as a group)

# **System** Testing: Conducted on a **complete**, **integrated** system to evaluate the system’s compliance with its specified requirements

# **API Testing:** Test all the APIs create for the software under tested

# 

# 

### **2.3 Bug Triage**

### Bug Triage is a process used to prioritize and assign resources to address identified issues. Below is a template for Bug Triage for a Hotel Booking application:

| **Bug ID** | **Title** | **Severity** | **Priority** | **Assigned To** | **Status** | **Date Reported** | **Date Triaged** | **Comments/Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| BUG-001 | Login Page Error | Major | High | [Tester/Dev] | Open | MM/DD/YYYY | MM/DD/YYYY |  |
| BUG-002 | Location Details are not accurate | Critical | Urgent | [Dev] | Open | MM/DD/YYYY | MM/DD/YYYY |  |
| BUG-003 | Few Filter Checkboxes are not working | Major | Medium | [Tester/Dev] | In Progress | MM/DD/YYYY | MM/DD/YYYY | Awaiting fix |
| BUG-004 | Number of persons and rooms can not be added on Booking Page | Critical | Urgent | [Dev] | Open | MM/DD/YYYY | MM/DD/YYYY |  |
| BUG-005 | Filter By Hotel Chain search box | Major | High | [Tester/Dev] | Open | MM/DD/YYYY | MM/DD/YYYY |  |
| BUG-006 | Search Functionality | Major | Low | [Tester] | Open | MM/DD/YYYY | MM/DD/YYYY | Investigating |
| BUG-007 | Forgot Password not sending link over mail | Critical | Urgent | [Designer] | Open | MM/DD/YYYY | MM/DD/YYYY |  |

### **2.4 Suspension Criteria and Resumption Requirements**

# If the team members report that there are **40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.

### **2.5 Test Completeness**

# Specifies the criteria that denote a **successful** completion of a test phase:

1. Requirement Coverage
2. Defect Resolution
3. Regression Testing
4. **Run** rate is mandatory to be **100%** unless a clear reason is given.
5. **Pass** rate is **80%,** achieving the pass rate is **mandatory**

# 

### **2.6 Project task and estimation and schedule**

| **Task** | **Members** | **Estimate effort** |
| --- | --- | --- |
| **Create the test specification** | Test Designer | 170 man-hour |
| **Perform Test Execution** | Tester, Test Administrator | 80 man-hour |
| **Test Report** | Tester | 10 man-hour |
| **Test Delivery** |  | 20 man-hour |
| **Total** |  | 280 man-hour |

Schedule to complete these tasks

**3 Test Deliverables**

Test deliverables are provided as below

**Before testing phase**

# Test plans document.

# Test cases documents

# Test Design specifications.

# 

# **During the testing**

# – Test Tool Simulators.

# – Test Data

# – Test Trace-ability Matrix – Error logs and execution logs.

# **After the testing cycles is over**

# Test Results/reports

# Defect Report

# Installation/ Test procedures guidelines

# Release notes

### **4 Resource & Environment Needs**

### **4.1 Testing Tools**

| **No.** | **Resources** | **Descriptions** |
| --- | --- | --- |
| **1.** | Server | Need a Database server which install MySQL serverWeb server which install Apache Server |
| **2.** | Test tool | HP ALM, JIRA, Visual Studio, Eclipse |
| **3.** | Network | Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s |
| **4.** | Computer | At least 4 computer run Windows 7, Ram 2GB, CPU 3.4GHZ |

### 

### **4.2 Test Environment**

# It mentions the minimum hardware and software requirements that will be used to test the Application.

# Following software is required in addition to client-specific software.

# Windows 11 and above

# Office 2021 and above

# MS Exchange, etc.

# 