## INTRODUCTION

## **PURPOSE**

The primary purpose of this test plan is to provide user- friendly , usability, security and convenient platform of the travel booking site .

**SCOPE**

The test plan covers the functional and non- functional testing of the website.

* FUNCTIONAL SCOPE

1. User registration and login
2. Search and booking
3. Payment

* NON -FUNCTIONAL SCOPE

1. Usability
2. Compactability
3. Performance

## TEST OBJECTIVES

**FUNCTIONAL**

* **Verify the user registration and login**  : Ensure that users can easily register and login to the website successfully.
* **Verify the search functionality :** Ensure that users can search for flights, timings, tour packages, destination, hotels
* **Verify the payment process :** Ensure that the payment transactions are error free, secure and successful .

**NON- FUNCTIONAL**

* **USABILITY : E**valuate the app’s user acceptance, convenience, user experience and accessibility.
* **Test Compactability :** Ensure that the app is adaptable to various devices, platforms, systems , browsers .
* **Evaluate the performance :** Ensure that the app performs according to the users requirements , verify its response time and access .

### TEST STRATERGY

**LEVELS OF TESTING**

* **UNIT TESTING :** Verifies individual functions and components of the travel agency website like cost allocation, service allocation, booking process etc .
* **INTEGRATION TESTING :** Ensures multiple units of functions work together simultaneously .
* **SYSTEM TESTING :** Verifies the entire system meets the requirement and work properly , ie ; it ensures the end to end booking process including searching till payment .
* **ACCEPTANCE TESTING** : Ensures the system meets the business requirements such as booking processing, payment processing.

**TYPE OF TESTING**

**FUNCTIONAL TESTING –** Verifies whether all the functions work accordingly

**SECURITY TESTING -** Verifies whether all the payment transactions are secured and error free.

## TEST DELIVERABLES

\* **TEST PLAN -** It is a detailed test plan document which contains test scope and objectives , test methodologies and approach, test schedule and timeline.

\* **TEST CASES –** It contains functional test cases like login, search , booking and non- functional test cases like performance, security , usability .

**\* TEST EXECUTION REPORTS -** It is a report which outlines the test summary reports , defect reports , test metrics and test analytics reports .

**\* DEFECT REPORT -** It is a detailed description of defects, its severity and priority found during the testing process.

## TEST ENVIRONMENT

**\* HARDWARE COMPONENTS**

> DESKTOP COMPUTERS – It is used for testing the web applications on different operating systems and browsers.

> MOBILE DEVICES - It is used for testing the web applications on different mobile applications and devices.

> LAPTOP COMPUTERS – It is used for testing the web applications on different operating systems and browsers.

\* SOFTWARE COMPONENTS

> BROWSERS – Google chrome, Safari ,Firefox .

> OPERATING SYSTEMS – Windows, Android , Ios

> MOBILE APP – TRAVEL AGENCY- APP.

\* NETWORK COMPONENTS

> Internet connection – Accurate and speedy network

> 4G/5G - For testing mobile network connectivity

> Wi-fi - For testing wireless connectivity

## TEST CRITERIA

1. ENTRY CRITERIA :-

* The test environment should be setup as per the test plan
* The test tools and software should be installed as per the test plan
* The application must have passed unit testing and is stable

1. EXIST CRITERIA :-

* All test cases have been executed and completed
* All functional and non- functional requirements have been tested
* All bugs are fixed
* All test deliverables including test reports are completed
* Defects are logged and tracked
* Final test reports are created and approved

## TEST SCHEDULE

The testing will be executed in phases

|  |  |  |  |
| --- | --- | --- | --- |
| PHASE | START DATE | END DATE | DURATION |
| 1. Test plan | Jan 26 | Jan 28 | 3 days |
| 1. Test design |  |  |  |
| 1. Final test report |  |  |  |

## TEST EXECUTION AND REPORTING

1. **TEST EXECUTION**

* Review the test case and test report
* Set up the environment
* Report defects and issues
* Retest defects after fixing

1. **TEST REPORTING** – The structure of test report are as follows

* Test report ID
* Test report data
* Test report environment
* Test scope

## TEST METRICS

The following metrics will be used to measure the testing process

* Test coverage
* Test execution time
* Defect rates
* Pass rates
* Fail rates

## RISKS AND MITIGATION

**RISKS**

* Technical issues
* Inexperienced testers
* Unstable apps
* Inadequate test data
* Insufficient testing time

## TEST CLOSURE

The testing of a travel agency website and mobile application has been completed. The defects where successfully identified and fixed. It ensures that the website and mobile application meets the functional and non- functional requirements .

## CONCLUSION

The test plan for the travel agency’s website and mobile application has been successfully completed. This was conducted to know the efficiency of the website and to ensure that it meets the customer requirements. The testing was conducted to identify any defects and used manual testing technique

The test plan was successfully executed the testing of the website was completed within the allocated timeframe. The testing provide assurance that the website is defect - free, stable and it meets the requirements of the customer.