LTI

**Via.com**

Test Plan ID - Via\_MTP\_001

**Version:** 1.0

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**Team**

* **Divya Salian - TL**
* Shraddha Puranik
* Akash Sarfare
* Jyoti Yadav
* Shivam Pathak
* Heet Navsariwala
* Hrishikesh Gaikwad

**1. Introduction**

1.1 Purpose of the Test Plan Document

The main purpose of this document is to guide the testing team to test the critical functionalities of the Application Under Test.

1.2 Product Background

Via.com is a leading distributor of transportation ticketing, accommodation reservation, packaged tours, corporate travel management, travel ancillaries, retail and financial services. It is a website which allows users to book flights, hotels and bus tickets as per their specified requirements. It also gives user the option to buy holiday packages as per user defined locations. The company offers its services through a robust, highly scalable cloud-based technology platform.

**2. Test Items**

* Login Module
* Flight Booking Module
* Hotel Booking Module
* Holidays Packages Module
* Bus Booking Module

**3. Features to Be Tested**

* Login Module
  + Enter user id and password to login
* Flight Booking Module
  + Flight Search
  + Flight Selection based on search result
  + Fill passenger’s details
  + Choosing payment mode and filling of data
* Hotel Booking Module
  + Hotel Search
  + Hotel Selection based on search result
  + Fill details of the person who will stay in the hotel
  + Choosing payment mode and filling of data
* Holidays Packages Module
  + Holidays Search
  + Holidays Selection based on search result
  + Book holidays based on given dates and price available
  + Fill details for specific holiday package
  + Choosing payment mode and filling of data
* Bus Booking Module
  + Bus Search
  + Bus Selection based on search result
  + Fill details of the person who will travel
  + Choosing payment mode and filling of data

**4. Features Not to be tested**

* Payment of charges applied
* Price Range Bar in flight booking
* Forgot Password

**5. Approach**

Black box testing techniques like equivalence classes, use-case based testing, etc are to be used. Functional testing will be done with the help of Selenium open source automation tool. Waterfall methodology is applied as whole testable code is available before testing procedure is started.

POM (Page Object Model) pattern and data driven testing are to be used. Maven is used in our project to map dependencies and hence using it as an environment builder.

**6. Change Management**

The change management will be done with the help of Git.

**7. Entry and Exit Criteria**

|  |  |
| --- | --- |
| **Entry criteria** | **Status** |
| The test environment is set up |  |
| Testable code is available |  |
| Test data is available |  |
| Test cases are designed |  |

|  |  |
| --- | --- |
| **Exit Criteria** | **Status** |
| Critical functionalities are working as expected |  |
| 94% pass rate of Test Scripts |  |
| 100% Test Scripts executed |  |

**8. Suspension Criteria and Resumption Requirements**

|  |  |
| --- | --- |
| **Suspension Criteria** | **Resumption** |
| Internet Connection temporarily down | When internet connection is back |
| Website temporarily down | When Website is available |

**9. Test Deliverables**

The test deliverables for this project include:

* Test plan
* Test case specification
* Defect details report
* Test summary report

**10. Environmental Needs**

Tools used for implementation and execution of test cases

* Web Browsers
  + Google Chrome v70.0.3538.110
  + Mozilla Firefox v63.0.3
* Chropath – Firefox plugin for inspecting web element
* Eclipse IDE.
  + Eclipse Java EE IDE for Web Developers.
  + Version: Oxygen.2 Release (4.7.2)
  + Build id: 20171218-0600
* Maven
  + maven-surefire v2.20
  + maven-compiler v3.1
* Selenium WebDriver
  + selenium-java v3.141.59
* POI Library
  + poi version: 3.16
  + poi-ooxml-3.9
* TestNG (V 6.11)
  + testng v6.11
* Report Generation Libraries
  + allure-testng v2.7.0
  + extentReport
  + v3.1.5

**11. Roles & Responsibilities**

|  |  |  |
| --- | --- | --- |
| **Roles** | **Responsibilities** | **Name** |
| Team Lead | Managing the total implementation | Divya Salian |
| Team Members | * Create test plan * Identify test data * Execute test conditions * Prepare software error reports * Administrate error measurement system * Ensure phase I is delivered to schedule and quality * Produce expected results * Report progress at regular status reporting meetings * Manage individual test cycles and resolve tester problems * Design the tests * Creating test procedures * Creating test data * Executing tests * Preparing bug report * Ensure delivery schedule and quality of project * Regularly review testing progress * Manage risk issues * Provide resources necessary for completing system test * Ensure unit testing * Review Each module before version. | Shraddha Puranik  Jyoti Yadav  Akash Sarfare  Heet Navsariwala  Hrishikesh Gaikwad  Shivam Pathak |

**12. Schedule**

|  |  |  |
| --- | --- | --- |
| **Test Phase** | **Responsible Person** | **Time (Hours)** |
| Test Plan Creation | Shivam, Jyoti, Akash, Shraddha | 6 |
| Test Specification Creation | Project Team | 10 |
| Use Case Creation | Divya, Shraddha, Akash, Hrishikesh | 4 |
| Test Specification Team Review | Project Team | 2 |
| Unit Testing | Project Team | 35 |
| Component Testing | Heet, Jyoti, Shivam | 10 |
| Integration Testing | Akash, Shraddha, Hrishikesh | 5 |

**13. Risks and Contingencies**

|  |  |
| --- | --- |
| **Risk** | **Mitigation Plan** |
| Unavailability of Independent computers and accessibility | As a result of non-availability of the PCs, the schedule gets impacted and may lead to unnecessary delays.  Allocation of more independent PCs as per the requirements. |
| Natural disasters | Talks with client regarding current situation.  Take regular backups of work done so that work will be resumed after recovery from natural disaster without any hiccups. |
| Delayed testing due to unprecedented issues | Keep aside some time for such unprecedented issues. Seek trainer’s advice on such issues. |

**14. Approvals**

|  |  |
| --- | --- |
| Name: |  |
| Signature: |  |
| Role: |  |
| Date: |  |

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| Name: |  |
| Signature: |  |
| Role: |  |
| Date: |  |