**Group 4**

**Expedia**

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**Test Plan Identifier**: EPG\_TSL\_v1.0- Expedia.com

**Document History:**

| **Version** | **Date** | **Status** | **Author** | **Comments** |
| --- | --- | --- | --- | --- |
| V1 | 16-08-2021 | Completed | All members |  |

**References:** Guru99 Bank, IEEE 829 format of test plan

**Introduction:** The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project Gladiator. 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.

**Document Overview:**

The main sections of this document are: -

* Scope and Objectives of the Test Plan are described.
* Test Items are described.
* Test Plan activities are described.
* Pass / Fail Criteria described.
* Project Management activities described

**Scope:**

**In scope**

All the features of expedia website which were defined in the software requirement specification need to be tested

| **Module Name** | **Description** |
| --- | --- |
| Login | An existing user should be able to login to his/her account whenever required |
| Registration | A new user should be able to register whenever required via email or phone number |
| Search and Book Flight | A User should be able to search and book flight as per their requirement |
| Search and Book Hotel | A user should be able to search and book hotel as per their requirement |

**Out of scope**

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

* User interfaces
* Payment gateway
* Software interfaces
* Communication interfaces
* Database
* Website security and performance

**Quality Objective:**

The plan is to test the features login, register, searching and booking flights and hotels of expedia.com through manual testing and automation scripting to guarantee all these operations can work as per the business requirement.

**Features to be tested:**

**User-**

1. Login

-Existing user can sign in with email address / phone number and password

1. Register

-New user can sign-up with personal details like name, email address and password

1. Search and book flight

- one way, two way and multi way

1. Search and book hotel

**Features not to be tested:**

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communication interfaces

**Approach/Strategy:**

**Types and Level of testing:** System testing

1. Regression Testing

Regression testing is re-running functional and non-functional tests to ensure that previously developed and tested software still performs after a change. If not, that would be called a regression. Regression testing can be achieved through multiple approaches, if a *test all* approach is followed, it provides certainty that the changes made to the software have not affected the existing functionalities, which are unaltered.

1. Functional Testing

Method of testing followed is black box testing which is automated with the help of selenium tool and TestNG framework. The prime objective of Functional testing is checking the functionalities of the software system. It mainly concentrates on -Mainline function, base usability, accessibility and error conditions

1. Compatibility (cross browser testing)

Cross browser testing is to be carried out in chrome, firefox and mozilla with the help of TestNG suit. Compatibility testing is a part of non-functional testing conducted on application software to ensure the application's compatibility with different computing environments.

1. Automation testing

Test automation is the use of [software](https://en.wikipedia.org/wiki/Software) separate from the software being tested to control the execution of tests and the comparison of actual outcomes with predicted outcomes. General approaches – GUI and API.

**Test Deliverables:**

1. Test cases
2. Test plan
3. Test Scenario
4. Defect Report
5. RTM (Requirement traceability matrix)
6. Execution log
7. Test Scripts

**Test Environment:**

| **Tools/Software** | **Version** |
| --- | --- |
| OS | Windows10 |
| Browser | Chrome v92/Firefox v91 |
| JDK | v1.8.0 |
| Eclipse | 2020-03 (v4.15.0) |
| Selenium libraries | v3.141.59 |
| Driver | Chromedriver v91, geckodriver v0.29 |

**Schedule:**

| **Activity** | **Estimate effort** |
| --- | --- |
| Requirement analysis | 10 hours |
| Test Analysis & Design (writing test cases) | 10 hours |
| Test script writing | 15 hours |
| Test execution | 15 hours |
| Report generation | 10 hours |

**Roles and Responsibility:**

| **Activity** | **Name** |
| --- | --- |
| Test Analysis | Done by all team members |
| Test Design | Done by all team members |
| Environment setup | Done by all team members |
| Test script writing | Done by all team members |
| Test execution | Done by all team members |
| Defect reporting | Done by all team members |
| Test closure | Done by all team members |

**Test Reporting:**

1. **Test Preparation Summary:**

| **Number of test case planned** | **Number of test case created** | **Percentage of test case completed** |
| --- | --- | --- |
| 36 | 33 | 92 |

1. **Test Execution Summary:**

| **No. of test case planned** | **No. of test case executed** | **No. of test case passed** | **No. of test case failed** | **% Passed** | **% Failed** | **No. of open defect** | **No. of closed defect** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **36** | **33** | **31** | **2** | **94** | **6** | **1** | **0** |

**Risk and contingencies**:

1. Problem with environment
2. Personal issues
3. Team member issue
4. Lack of availability of required hardware, software, data or tools.
5. Technical backend issue
6. Changes to the original requirements or designs
7. Complexities involved in testing the applications

**Software risk issue:**

1. Delivery of incomplete product
2. Delivery of faulty product
3. Compatibility issue
4. Server down

**Suspend /Resume Criteria**: Temporary stop in testing might occur due to

1. Environment not ready in time
2. Developer not giving product in time
3. If the team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

**Entry Criteria:** Definition of ready (DOR)

1. Environment is ready
2. Test cases are ready
3. Build should be ready

**Exit Criteria:** Definition of Done (DOD)

1. Application should be 90% in good quality and coverage should be 100%
2. No high priority test cases left

**Approval:**

| **Name** | **Designation** | **Sign** | **Date** |
| --- | --- | --- | --- |
| Shanmugaraj Paulchamy | Senior Specialist |  |  |