**1 Introduction**

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the google search box.

The plan identify 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**

Below features need to be tested.

|  |  |
| --- | --- |
| **Feature Name** | **Description** |
| Search box | User can enter text in search box |
| Google Search button | User can enter/not enter text in search box.  User can click on the google search button, Google should be able to display the user text related data. |

**1.1.2 Out of Scope**

These feature are not be tested because they are not part of the software requirement specs

* Hardware Interfaces
* Software Interfaces
* Database logical
* Communications Interfaces
* Website Security and Performance

**1.2 Quality Objective**

The test objectives are to **verify** the Functionality of google search.

**1.3 Roles and Responsibilities**

The project should use **outsource** members as the tester to save the project cost.

|  |  |  |
| --- | --- | --- |
| **No.** | **Member** | **Tasks** |
| **1.** | Test Manager | Manage the whole project Define project directions Acquire appropriate resources |
| **2.** | Test | Identifying and describing appropriate test techniques/tools/  automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects. Outsourced members |
| **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 maintained Support Tester to use the test environment for test execution |
| **5.** | SQA members | Take in charge of quality assurance Check to confirm whether the testing process is meeting specified  requirements |

**2 Test Methodology**

**2.1 Overview**

**2.2 Test Levels**

In the project google search, there’re 3 types of testing should be conducted.

* **UI Testing** : Test google search box and button user interface.
* **API testing:**Test google search with rest APIs.

**2.3 Bug Triage**

**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**

* **Run** rate is mandatory to be **100%**unless a clear reason is given.
* **Pass** rate is **90%,**achieving the pass rate is **mandatory**

**3 Test Deliverables**

Test deliverables are provided as below

**Before testing phase**

* Test plans document.
* Test cases documents

**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**

|  |  |
| --- | --- |
| **Resources** | **Descriptions** |
| Test tool | Develop a Test tool which can auto generate the test result to the predefined form and automated test execution |
| Computer | At least 1 computer run Windows/mac/Linux |

**4.2 Test Environment**

Windows, mac with chrome browser, we can specify the version also.