

# **Test Plan**

## **Google Map Transit Feature**

### *ChangeLog*

<b>Version</b>	<b>Change Date</b>	<b>By</b>	<b>Description</b>
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# 1 Introduction

Google maps has a transit feature, which provides public transportation options between the Origin and Destination. Users can select the type of transit (bus, train, tram, rail etc) as well as the time and date for departure. For the selected transit type and time, google maps creates a schedule for the trip and also provides multiple available options for the trip starting at future times. This feature will be tested in this project for its functionality. Goal of this document is to provide scope, approach, test strategies, resources and schedule of the intended test activities for this project.

## 1.1 Scope

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The document mainly targets the functionality testing of the transit feature as per the requirements specifications document. Following functions will be tested in this project:

1. GUI of the Transit feature
2. Basic functionality of the transit feature in terms of obtaining the route between specified origin and destination using the available transit options.
3. Schedule explorer functionality, which provides complete schedules for the trips.

## 1.2 Quality Objective

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The overall objective of this projects are:

1. Ensuring the Application Under Test conforms to functional and non-functional requirements
2. Ensure the AUT meets the quality specifications defined by the client
3. Bugs/issues are identified and fixed before go live

## 1.3 Roles and Responsibilities

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Responsibilities of the QA Analyst on this project are as follows.

- QA Analyst: Drafting the test plan, design the test cases, deciding the testing approach, execution of the test cases, reporting the bugs to the developers through bug tracking tools, and performing regression testing after the bug resolution.

# 2 Test Strategy

## 2.1 Testing Types

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Following testing types will be covered as part of this project.

1. **Black-Box GUI Testing:** GUI testing will include testing the UI part of transit feature on Firefox, Chrome and IE browsers. It covers format, look and feel, error messages, and spelling mistakes.
2. **Functionality Testing:** Functional testing will be carried out in order to find out unexpected behavior of the transit feature and schedule explorer. The characteristic of functional testing are to provide correctness, completeness and quality of the transit feature and schedule explorer.
3. **Automated Regression Testing:** After the bug resolution both transit feature and schedule explorer will be regression tested. To reduce the testing time during regression testing phase, some of the functional test cases will be automated using Selenium WebDriver. Candidate test cases for the automation testing will be chosen after the functionality and GUI testing is completed.

## 2.2 Testing Process

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1. **Preparing Test Cases:** QA will be preparing test cases based on the requirement specifications. This will cover all scenarios for requirements.
2. **Creating Test Data:** Test data will be created by QA to cover all the positive and negative scenarios for the transit feature.
3. **Executing Test Cases:** Functional test cases will be executed by QA on multiple browsers to check cross browser functionality. Test results (Actual Result, Pass/Fail) will be updated in test case document (excel sheet).
4. **Defect Logging and Reporting:** QA will be logging the defect/bugs in Excel document (for this QA Test, otherwise a professional bug tracking tool such as Bugzilla/JIRA/QC) found during execution of test cases. After this, QA will inform respective developer about the defect/bugs.
5. **Regression Testing:** After the bug resolution, overall application will be subjected to regression testing. Some of the cases will be executed manually while rest of them will be automated using Selenium WebDriver to reduce the overall testing time in regression phase. (This phase will not be part of the current QA test).

## 2.3 Test Completeness

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Following criteria must be satisfied for test completeness:

- All GUI and Functionality tests are completed.
- Bugs are reported.

## 3 Test Deliverables

QA will deliver following documents during the various phases of the SDLC.

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- Test Plan
  - Test Cases
  - Bug Reports
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## 4 Resource & Environment Needs

### 4.1 Testing Tools

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Following tools are needed for the effective testing in this project.

- Bug Tracking Tool (Excel document for now)
- Test case documentation (Excel document for now)
- Automation Tools (Selenium WebDriver, JAVA, TestNG framework)

### 4.2 Test Environment

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Following **software's** are required in addition to client-specific software.

- OS: Windows 7 and above, Mac OS X, Linux/Unix
- Browsers: Chrome, Firefox, IE, Safari, Opera
- Mobile platforms and Google Maps Android and iOS apps are not considered.

## 5 Entry Criteria

- Application is available for testing.
- QA has completely understood the requirements
- QA has sound knowledge of functionality of the application
- Test scenarios, test cases and test data are ready.

## 6 Exit Criteria

- All the high priority/severity test cases has been executed
- High severity/ priority bugs are fixed
- Deliverables are ready

## 7 Terms/Acronyms

Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
GUI	Graphical User Interface