**TEST SUMMARY REPORT**

Contents

[Purpose 1](#_Toc66629157)

[Application Overview 2](#_Toc66629158)

[Testing Scope 2](#_Toc66629159)

[Metrics 2](#_Toc66629160)

[a. Execution Summary 2](#_Toc66629161)

[b. Defect Summary: 3](#_Toc66629162)

[Type of testing performed 4](#_Toc66629163)

[Environment, test tools and technologies used 4](#_Toc66629164)

[Recommendations/ Improvements 4](#_Toc66629165)

[Exit Criteria 4](#_Toc66629166)

# Purpose

This test report provides an overall view of the sprint and explains the various activities performed as part of the Testing on the “Mobile Assignment” application.

# Application Overview

“Mobile assignment” is an android based mobile application wherein a user can search for cities all across the globe. User retrieves a list of cities as a result, with relevance to the searched input.

As the user enters the city name (one alphabet at a time), matching process begins to take place in the database and result narrows down to the exact city name that the user has been searching for.

Once user gets the result(s), they can click on the city name which navigates to a Google Maps UI showing the location of the city in real-time. User is able to perform actions in the map – zoom in/ zoom out and left/ right movement within the map to see neighboring cities.

# Testing Scope

1. **In scope:** Functional, Exploratory and Performance testing for ‘Search’ functionality of the app
2. **Out of scope:** Map functionality
3. **Items not tested:** Portrait to landscape testing

# Metrics

1. Execution Summary: The test suite consisting of 16 test scenarios are all executed manually. 50% of the test suite has been automated and executed.

|  |  |  |  |
| --- | --- | --- | --- |
| Execution type | **Passed** | **Failed** | **Total execution** |
| **Manual** | 14 | 2 | 16 |
| **Automation** | 7 | 1 | 8 |

## Defect Summary

2 Critical, 1 Major and 1 Minor defects have been reported. (More info in separate bug report)

Defect1 : [Critical] **Refresh of list of cities w.r.t. input is not very responsive**

Defect2: [Critical] **Upon entering ',' search result becomes empty**

Defect3: [Major] **Search results shows a lot of duplicate values**

# Type of testing performed

1. Sanity/ functional testing
2. Exploratory testing
3. Performance testing

# Environment, test tools and technologies used

1. Environment : Development
2. Android Studio, Espresso, Git
3. AVD details:

Name: Pixel\_3a\_API\_30\_x86

CPU/ABI: Google Play Intel Atom (x86)

Target: google\_apis\_playstore [Google Play] (API level 29)

hw.device.name: Nexus 5X

hw.initialOrientation: Portrait

# Recommendations/ Improvements

1. In case of no results for invalid search inputs - instead of blank space, provision of displaying a text message conveying the following would be an appropriate step for enhancing user experience.  
   "No results found for 'invalid city'. Please try a valid search again"
2. Provision of a scrollbar for quick and easy navigation. The scroll feature is not enough. The database (list of cities) is huge and thus, having a scroll bar would be of immense help for the user to have a quick and brief look at the overall data. This, again, will be a step for enhancing user experience.
3. Search by city(ies) could be better replaced by categorizing first by country and then by states/ cities.
4. Search could be optimized by adding "similar match" instead of only having "exact match".

# Exit Criteria

Due to Critical and Major defects present in the application, the release is a **No Go to production.**