

Test Report

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App Description:

A simple native Android application that shows a city on a map. It provides a list of cities which you can search.

Coverage:

- Search Functionality
- Map view

Test Result Metrics

Total No of Test Cases	14
Tests Executed	10
Test Passed	9
Test Failed	5
Test Pending	0

Types of testing performed

- Smoke Testing
- System Testing
- Monkey Testing

Test environment and Tools

- Android Device
- Android Studio

Test Cases

Below are the test cases, test procedures and test results

1.

Test Scenario	Launch Application
Test Case ID	Launch001
Test Case Description	Launch Application
Test Priority	High
Prerequisite	Application should be installed on the user's Android device
Test Procedures	Launch Application
Input	N/A
Expected output	The following should be displayed to the user: <ul style="list-style-type: none">- Input field for search- A list of cities below the input field
Actual Output	The following is displayed to the user: <ul style="list-style-type: none">- Input field for search- A list of cities below the input field But not on Android 4.4.2
Test Result	Test Failed

Test Comments	Application crashes on Android 4.4 but launches fine on other Android OS
Test Environment	Android OS 4.4.2, 5.1, 6.0, 7.0, 8.0

2.

Test Scenario	Search
Test Case ID	Search001
Test Case Description	Search with no character
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application • Click the search field • Click on the enter key on the keyboard
Input	N/A
Expected output	An empty input field and original list of cities should be displayed to the user
Actual Output	An empty input field and original list of cities is displayed to the user
Test Result	Test Passed

Test Comments	https://take.ms/FOaWe
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

3.

Test Scenario	Search
Test Case ID	Search002
Test Case Description	Search with one or more characters
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application • Enter one or more characters in the search field
Input	Any character(s) can be used Test: a, pa
Expected output	A list of cities starting with the search term (a) should be displayed to the user
Actual Output	A list of cities starting with the search term (a) is displayed to the user
Test Result	Test Passed

Test Comments	https://take.ms/pm2FQ , https://take.ms/zOMuQ
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

4.

Test Scenario	Search
Test Case ID	Search003
Test Case Description	Search for an existing city
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application • Enter the characters of an existing city in the search field
Input	Any existing city can be used Test: Aach
Expected output	<ul style="list-style-type: none"> • The city searched for should be displayed. • Cities starting with the search term should be displayed
Actual Output	<ul style="list-style-type: none"> • The city searched for is displayed. • Cities starting with the search term is displayed

Test Result	Test Passed
Test Comments	https://take.ms/f4QZg
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

5.

Test Scenario	Search
Test Case ID	Search004
Test Case Description	Search for a non-existing city
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application • Enter the characters of a non-existing city in the search field
Input	Any combination of characters that is sure to return no city can be used Test: jklp
Expected output	No city should be returned on the list
Actual Output	No city is returned on the list
Test Result	Test Passed

Test Comments	https://take.ms/c3dC6
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

6.

Test Scenario	Search
Test Case ID	Search005
Test Case Description	Search with a lot of characters
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> ● Launch Application ● Enter a lot of characters in the search field,
Input	Any combination of over 512 characters can be used.
Expected output	Cities starting with/containing the search term should be displayed else no city should be returned on the list
Actual Output	App crashes
Test Result	Test Failed

Test Comments	The size of the search data that crashes the app varies per device. See https://take.ms/ZG10H and https://take.ms/pVU6B
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

7.

Test Scenario	List Order
Test Case ID	ListOrder001
Test Case Description	Check if list of cities displayed before any search is ordered alphabetically
Test Priority	Medium
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application. • Check the order of the displayed list
Input	N/A
Expected output	List of cities should be ordered alphabetically
Actual Output	List of cities is not consistently ordered alphabetically
Test Result	Test Failed

Test Comments	The list was ordered by ASCII Code rather than alphabetically. See https://take.ms/YVobQ
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

8.

Test Scenario	List Order
Test Case ID	ListOrder002
Test Case Description	Check if list of cities after search is ordered alphabetically
Test Priority	Medium
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application • Enter any combination of characters in the search field that will return multiple cities. • Check the order of the resulting list
Input	Any combination of characters in the search field that will return multiple cities can be used Test: b

Expected output	List of cities should be ordered alphabetically
Actual Output	List of cities is not consistently ordered alphabetically
Test Result	Test Failed
Test Comments	The list was ordered by ASCII Code rather than alphabetically. See https://take.ms/XZMuG
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

9.

Test Scenario	CityListView
Test Case ID	CityListView001
Test Case Description	Check if the list of cities view is scrollable before search
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> • Launch Application • Scroll on the list of cities view
Input	N/A
Expected output	List of Cities view should be scrollable

Actual Output	List of Cities view is scrollable
Test Result	Test Passed
Test Comments	
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

10.

Test Scenario	CityListView
Test Case ID	CityListView002
Test Case Description	Check if the list of cities view is scrollable after search
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> ● Launch Application ● Enter any combination of characters in the search field that will return multiple cities. ● Scroll on the resulting list

Input	Any combination of characters in the search field that will return multiple cities.
Expected output	List of Cities view should be scrollable
Actual Output	List of Cities view is scrollable
Test Result	Test Passed
Test Comments	
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

11.

Test Scenario	Select City
Test Case ID	SelectCity001
Test Case Description	Select a city from the list of cities
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> ● Launch Application ● Click on a city from the displayed list

Input	N/A
Expected output	The user should be taken to a map view with a pin on the map for locating the city
Actual Output	The user is taken to a map view with a pin on the map for locating the city
Test Result	Test Passed
Test Comments	
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

12.

Test Scenario	Select City
Test Case ID	Selectcity002
Test Case Description	No duplicate city should be seen
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable
Test Procedures	<ul style="list-style-type: none"> ● Launch Application ● Search for a city that will have multiple occurrences ● Click a city from the resulting list.

	<ul style="list-style-type: none"> • Check the city on the map • Click another city on the list with the same name and country
Input	Any combination of characters that will result in a city with multiple occurrences Test: Paris
Expected output	No two or more cities should point to the same area on the map
Actual Output	Duplicate cities exist
Test Result	Test Failed
Test Comments	
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

13.

Test Scenario	Map Interaction
Test Case ID	MapInteract001
Test Case Description	Zoom in and out on the map
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable

Test Procedures	<ul style="list-style-type: none"> • Launch Application • Click a city from the displayed list • Zoom in and out of the resulting map view
Input	N/A
Expected output	User should be able to zoom in and out of the map
Actual Output	User is able to zoom in and out of the map
Test Result	Test Passed
Test Comments	
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0

14.

Test Scenario	Map Interaction
Test Case ID	MapInteract002
Test Case Description	Move left and right in on the map
Test Priority	High
Prerequisite	Application should be installed on the user's Android device and launchable

Test Procedures	<ul style="list-style-type: none">● Launch Application● Click a city from the displayed list● Move left and right in on the resulting map view
Input	N/A
Expected output	User should be able to move left and right in on the map
Actual Output	User is able to move left and right in on the map
Test Result	Test Passed
Test Comments	
Test Environment	Android OS 5.1, 6.0, 7.0, 8.0