

## Mobile QA assignment:

### This document includes:

1. Manual test cases for the search functionality, with the executed test cases.
2. Reporting some of the Issues.
3. Test cases status.
4. Test cases execution status.
5. Issues per module.
6. Conclusion.

**Note:** all the test cases have been executed on Android (API 27) emulator only, so the App needs further testing on lower API levels.

### 1- Test Cases (search functionality):

ID	Title	Preconditions	Steps	Expected results	status	comments
Validate that all the elements are displayed						
1	search textbox is displayed	app is opened at the first screen	1- open the mobile-assignment app 2- check the search textbox at the top of the screen	- search text box should be displayed at the top of the screen	pass	
2	Cursor at the starting position of the search textbox	app is opened at the first screen	1- open the mobile-assignment app 2- check the search textbox at the top of the screen 3- check the cursor at the starting position of the textbox	- cursor should be displayed at the starting position of the search textbox	pass	
3	cities list is displayed on screen	app is opened at the first screen	1- open the app at the first screen	- a cities list should be displayed below the search textbox	pass	
4	map is rendered on screen	a city is selected from the list	1- tap on the textbox 2- type a valid city name - all related result is displayed 3- then select the city	- map should be displayed	fail	Map didn't display on screen

			from the list			
5	pin is displayed on the map	- a city is selected from the list - map is displayed	1- tap on the textbox 2- type a valid city name - all related result is displayed 3- then select the city from the list	- pin is located at the selected city on map	cannot run	Can't be tested, No map displayed
Validate that user can search for a city						
6	search textbox is enabled for use	app is opened at the first screen	1- tap on the search textbox and start typing a city name	- user should be able to type in the search text box - the typed text should be displayed on the search textbox	pass	
7	scroll down the cities list	app is opened at the first screen, and the cities list is displayed	1- tap on the scroll bar at the right side , and scroll down to see the list	- user should be able to scroll up and down the list to view	pass	
8	search with valid city name	app is opened and search textbox is displayed	1- tap on the search textbox 2- type a valid city name at the search textbox	- all related result should be displayed below the search textbox	pass	
9	search with invalid city name	app is opened and search textbox is displayed	1- type an invalid city name at the search textbox	- there is no results displayed	pass	
10	search with special characters	app is opened and search textbox is displayed	1- type any word with special characters	- there is no results displayed	pass	
11	enter space before the city name	app is opened and search textbox is displayed	1- tap on the textbox 2- enter space then type the city name	- all related result should be displayed below the search textbox	fail	no results displayed, but it'll be better if the spaces were ignored and results displayed
12	enter spaces only	app is opened and search textbox is	1- tap on the textbox 2- enter spaces only	- no results displayed	pass	

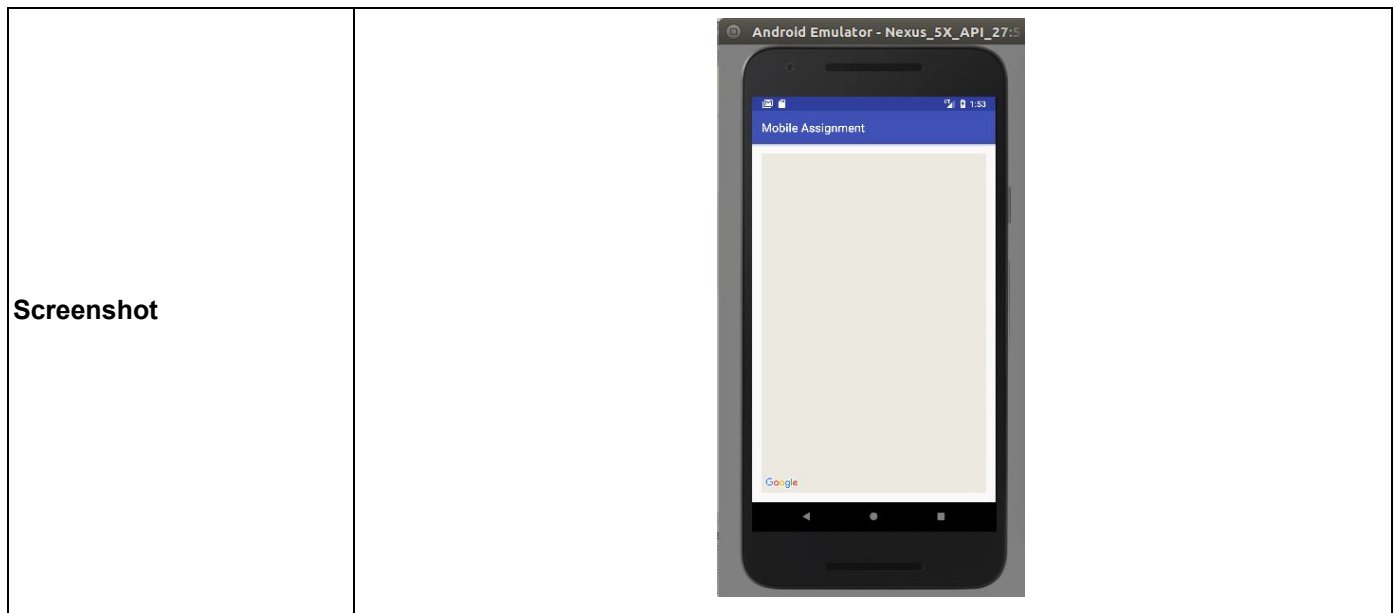
		displayed				
13	enter a long string (beyond the maximum no of characters)	app is opened and search textbox is displayed	1- tap on the textbox 2- enter a very long string	- There should be a maximum length for characters in the textbox	fail	There is no maximum limit of characters in the textbox
14	enter text in combination with uppercase and lowercase characters	app is opened and search textbox is displayed	1- tap on the textbox 2- type any city name in upper and lowercase ex: "amSTERDAM"	- results should be displayed successfully	pass	
15	enter partial city name	app is opened and search textbox is displayed	1- tap on the textbox 2- type part of any city name ex: "Dub"	- all related result should be displayed below the search textbox	pass	
16	enter valid city name then delete it	app is opened and search textbox is displayed	1- tap on the textbox 2- type a valid city name - all related result is displayed 3- then delete the city name	- cities list displayed again with the initial sorting	pass	
17	cities list is sorted alphabetically	app is already opened	- open the app at the first page and notice the cities list	- search textbox is displayed - cities list is displayed and sorted alphabetically	pass	
18	response time to get the result	- a city is selected from the list - map is displayed	1- tap at the textbox 2- start typing a city name and change it	- list should be updated while user is typing the city name	pass	
Validate that results displayed on map						
19	enter valid city name then select it from the list	app is opened and search textbox is displayed	1- tap on the textbox 2- type a valid city name - all related result is displayed 3- then select the city from the list	- map should be displayed - pin is displayed on the selected city location on map	fail	Map is not displayed

20	select city, then select another different one	app is opened and search textbox is displayed	1- tap on the textbox 2- type a valid city name - all related result is displayed 3- then select the city from the list - Map should be displayed with the pin on the selected city 4- go back, select another city	- map should be displayed - pin is displayed on the second selected city location on map	cannot run	
<b>Validate that app doesn't crash when interrupted</b>						
21	interrupt the app with call	app is opened and search textbox is displayed	1- tap at the textbox 2- type a valid city name 3- interrupt the app with a phone call while typing 4- end the call	- app should be opened at the last state before the call	not run	
22	interrupt the app with messages notification	app is opened and search textbox is displayed	1- tap at the textbox 2- type a valid city name 3- interrupt the app with a message notifications while typing 4- open the notification 5- go back to this cities app	- app should be opened at the last state before the other application is opened	not run	
23	close the phone screen while typing	app is opened and search textbox is displayed	1- tap at the textbox 2- type a valid city name 3- click on the power btn to lock the screen 4- unlock the screen again	- app should be opened at the last state before locking the screen	not run	
24	exit the application, (verify that the user can exit the app properly)	app is already opened	1- click on back button to exit the application	- app should be closed and user is redirected to the previous screen that was opened	pass	

## 2- Reported Issues.


1st issue:

GENERAL INFORMATION			
Test Stage:	Functional Testing		
Test Date:	dd/mm/yyyy		
Tester:	Afnan Elnomrosy.	Test Case Number:	4
Test Case Title	Map is rendered on screen		
Test Case Description:	Validate that the Map is displayed on screen after selecting any city from the list.		
Results:	Failed.		
INTRODUCTION			
Requirements to be tested:	When user choose a city the app. shows a pin on the map.		
Set Up Procedures:	- Prepare an android device or emulator with Android 8.1 (API 27). - Install the app on any device or emulator - Open the app and search for a city - Select city from the list		
ENVIRONMENTAL NEEDS			
Hardware:	Android device or android emulator.		
Software:	Android 8.1 (API 27) is installed.		
TEST			
Test Items and Features:	To test that pin is displayed on the map: 1- search functionality should work appropriately. 2- Cities list is displayed, and user can select from it.		
Procedural Steps:	1- Open the app 2- type a city name in search text field 3- select the city from the results		
Expected Results of Case:	Map <b>should be displayed</b> in another screen.		
ACTUAL RESULTS			
Output Specifications:	New screen is opened but map is <b>NOT</b> rendered on screen.		



2nd issue:

GENERAL INFORMATION			
Test Stage:	Functional Testing		
Test Date:	dd/mm/yyyy		
Tester:	Afnan Elnomrosy.	Test Case Number:	5
Test Case Title	Pin is displayed on the map		
Test Case Description:	Validate that the pin of the selected city is displayed on the map at the city's location.		
Results:	Blocked, test case cannot be tested, cause Map is not displayed.		
INTRODUCTION			
Requirements to be tested:	When user choose a city the app. shows a pin on the map.		
Set Up Procedures:	<div>- Prepare an android device or emulator with Android 8.1 (API 27).</div> <div>- Install the app on any device or emulator - Open the app and search for a city</div> <div>- Select city from the list</div>		
ENVIRONMENTAL NEEDS			
Hardware:	Android device or android emulator.		
Software:	Android 8.1 (API 27) is installed.		
TEST			
Test Items and Features:	<div>To test that pin is displayed on the map:</div> <div>1- search functionality should work appropriately</div> <div>2- map is displayed</div>		

<b>Procedural Steps:</b>	1- Open the app 2- type a city name in search text field 3- select the city from the results
<b>Expected Results of Case:</b>	Map should be displayed in another screen, containing the pin the selected city location.
<b>ACTUAL RESULTS</b>	
<b>Output Specifications:</b>	Location Pin is not displayed so as the map.
<b>Screenshot</b>	

And so on for the other 7 issues...

### 3- Test cases status:

	Test cases Status per Module	
S/N	Modules Names	Number of Test cases per Module
1	Search functionality	24
Total		24

**4- Test cases execution status:**

	Test cases execution Status						
S/N	Module Name	Pass	Fail	Not Run	Blocked (Not applicable)	Number of Testcases which holded by another failed Testcase	Total
1	Search functionality	15	4	3	1	1	24
Total		15	4	3	1	1	24

**5- Issues per module:**

	No. of Issues per module	
S/N	Issues per service	
	Module Name	Total Issues
1	Search functionality	9
Total Issues		9

**6- Conclusion:**

This build is rejected because the main feature is not met, which is displaying the selected location (city) on the map:

- Map is not displayed.
- Pin not displayed.