Evaluation Report

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Test Result Metrics

	Total Number	Percentage
Test Cases Planned	14	100%
Tests Executed	14	100%
Test Passed	9	64.3%
Test Failed	5	35.7%
Test Pending	0	0%

Demonstrated Capability

Based on the acceptance criteria, the application does the following quite well:
- The user of the application can select a city to be displayed on the map
- The cities list is scrollable
- The user of the application can search for specific city(ies)
- The user of the application can interact with the map (i.e zoom in/out, move to the left/right)

However, the criterion was not met:
- The cities are listed in ascending alphabetical order

Issues

1. The application crashes on Android 4.4.2. Based on some research, I found out that the current implementation would not work for Android 4.4.2 as the background task done at the launching of the app will cause the phone to crash due to the file size of the json file containing the cities.
2. Due to the issue above, I couldn't go beyond the first test case for the Android 4.4.2 devices.
3. App crashes when a lot of data (characters) is entered
4. There are cities with duplicate data and coordinates on the map
5. The cities are not listed in ascending alphabetical order.
6. The application's performance on low-end devices is quite low.

Risks

1. There is a high tendency non-english speaking users might have difficulty using the app as the names of some cities on the are different the corresponding name on the map. This can lead to the user leaving the app for another. For example, Ẕuwayhir is the name on the city but Dhawaihir on the map.
2. Users might be discouraged to use the app when searching for a city due to the fact that cities in the same country point to different places. For example Aach, Germany results three result, one is in the German state Baden-Württemberg, while the other two (duplicates) are in the German State Rhin-Palatinate. This can be misleading to a user who only knows the name of the city.

Recommendation

1. The developer(s) look into a different implementation that will cater for Android 4.4.2 devices
2. There should be a limit to the number of characters that can be entered in the search field to avoid the crash
3. The cities on the list view should be more descriptive.
4. The ordering of the list of cities should be alphabetical rather than ordering with the ASCII code of the character
5. The application should be optimized for low-end devices