SAN JOSÉ STATE UNIVERSITY

CMPE 277 Lab 3 Report

Find Cafes

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by

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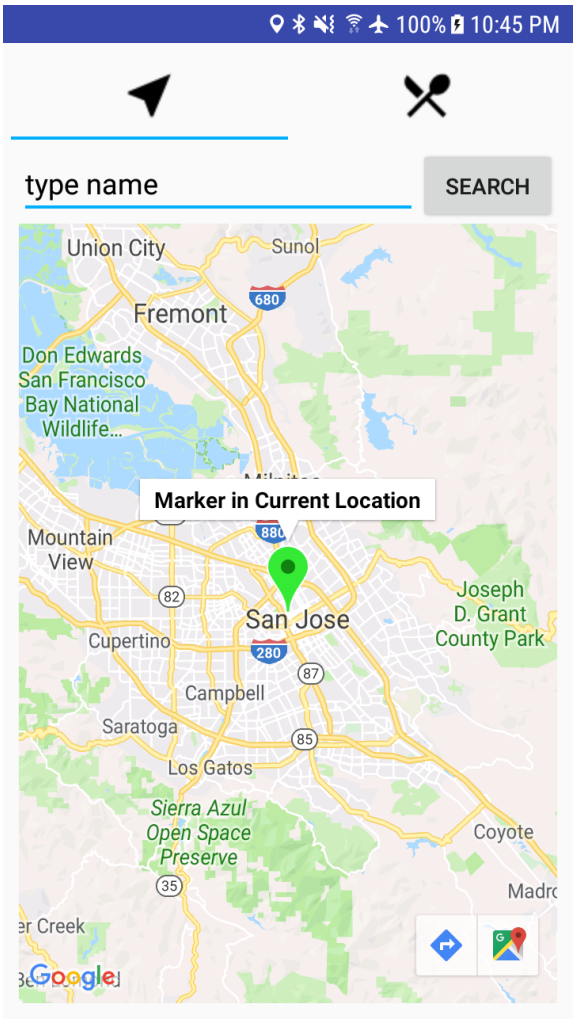
Introduction

For this lab, I've developed Find Nearby application incorporating all the android feature requirements. In this app, user can search for when user opens the application for the first time, he is asked to for Location Permission. Once permission is granted, MainActivity displays user's current location. Here user can search for nearby cafes using search bar. On button click of search, with the help of Google Places API, nearby restaurants are fetched and markers are placed on the map. User can also navigate to the List of restaurants using tab layout second screen. Here user will be able to see the name, address and rating of the restaurants.

Application Requirements

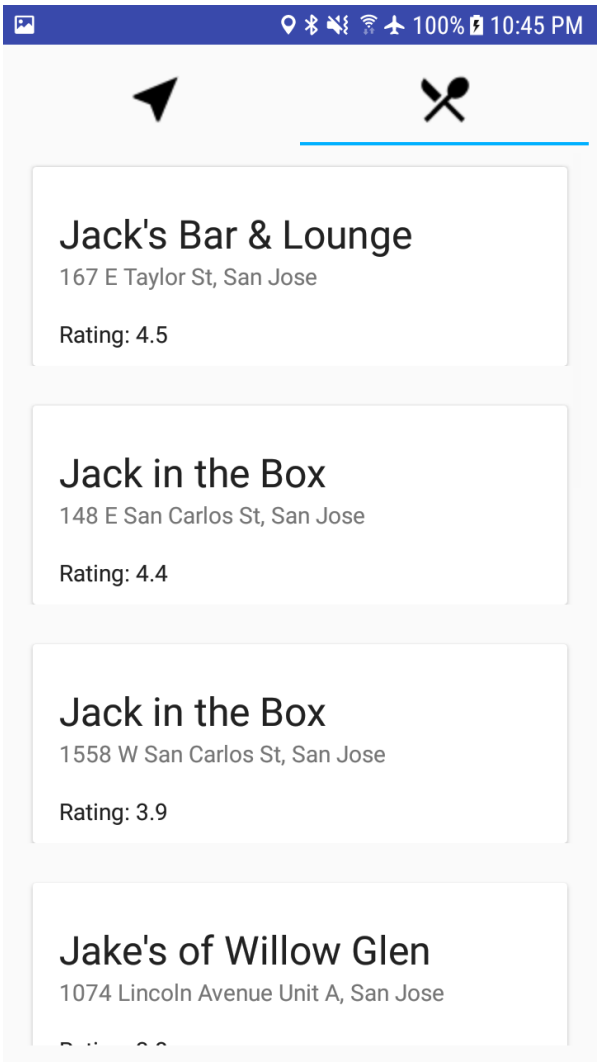
1. **MapView with Search bar**

   This is the first activity user will see when he opens the application. Here user will be shown his current location on the map. User can enter a search query to find nearby cafes as shown below.

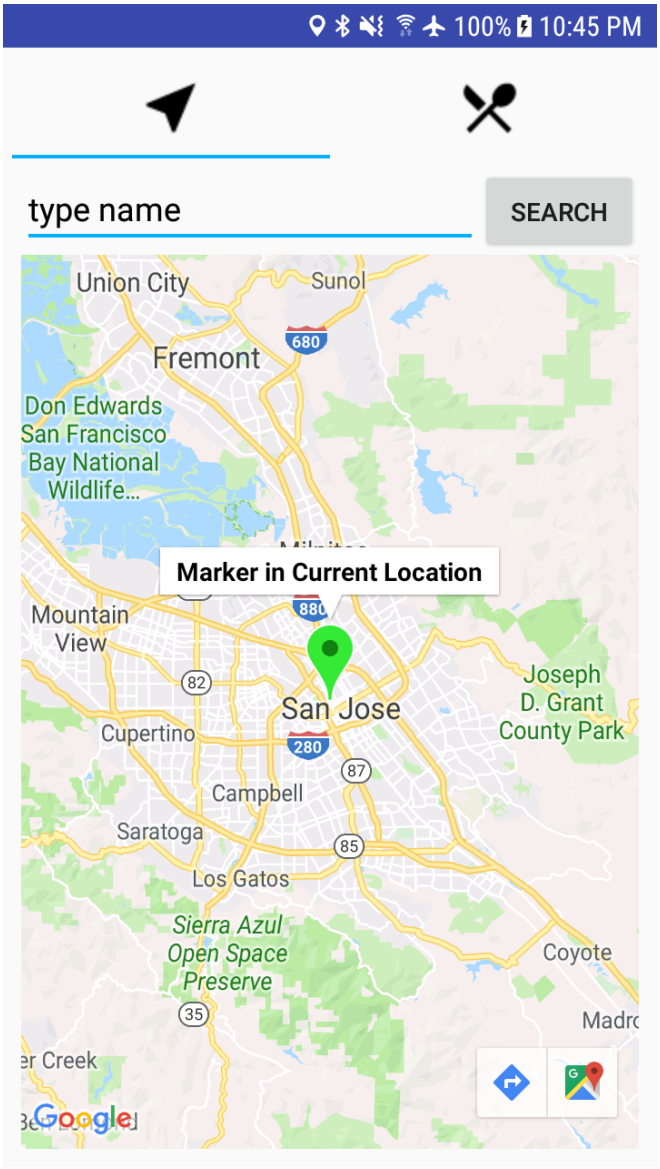


2. **Nearby Café Listing**

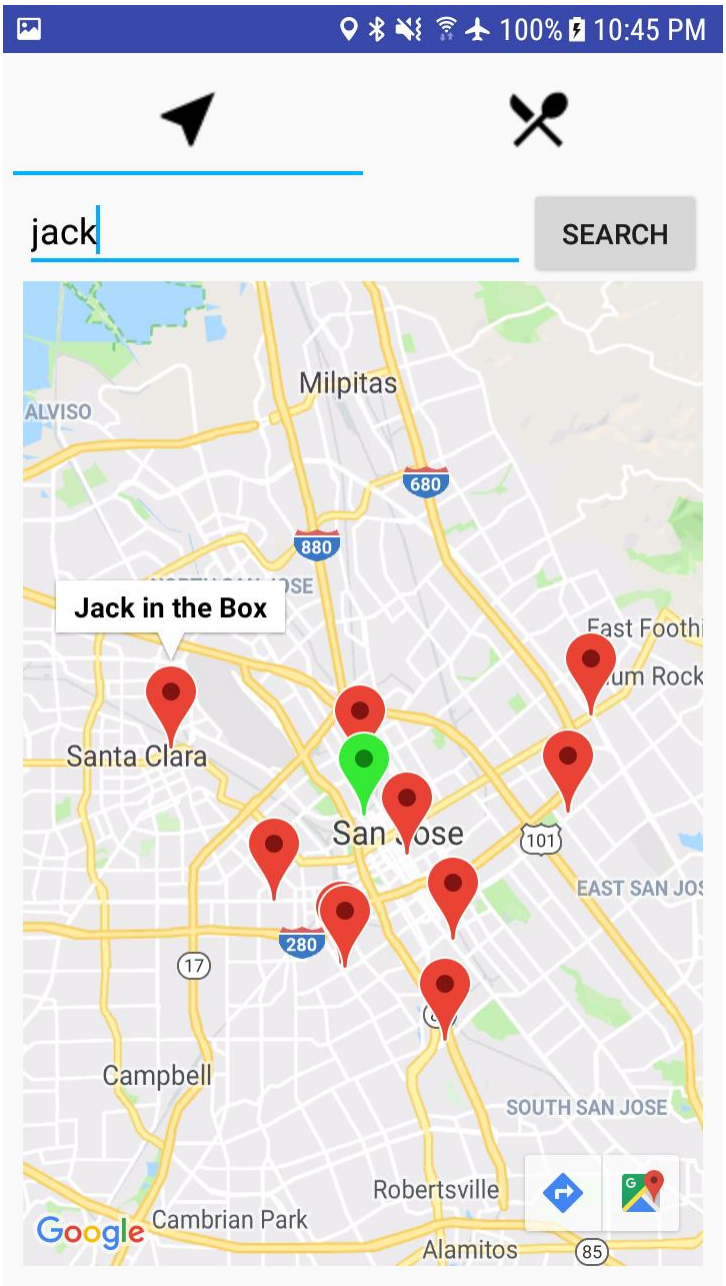
As shown below, the list of cafes are shown in the in decreasing order of rating. After searching, user can navigate to 2nd tab where he can see the list of cafes with name, address and rating.



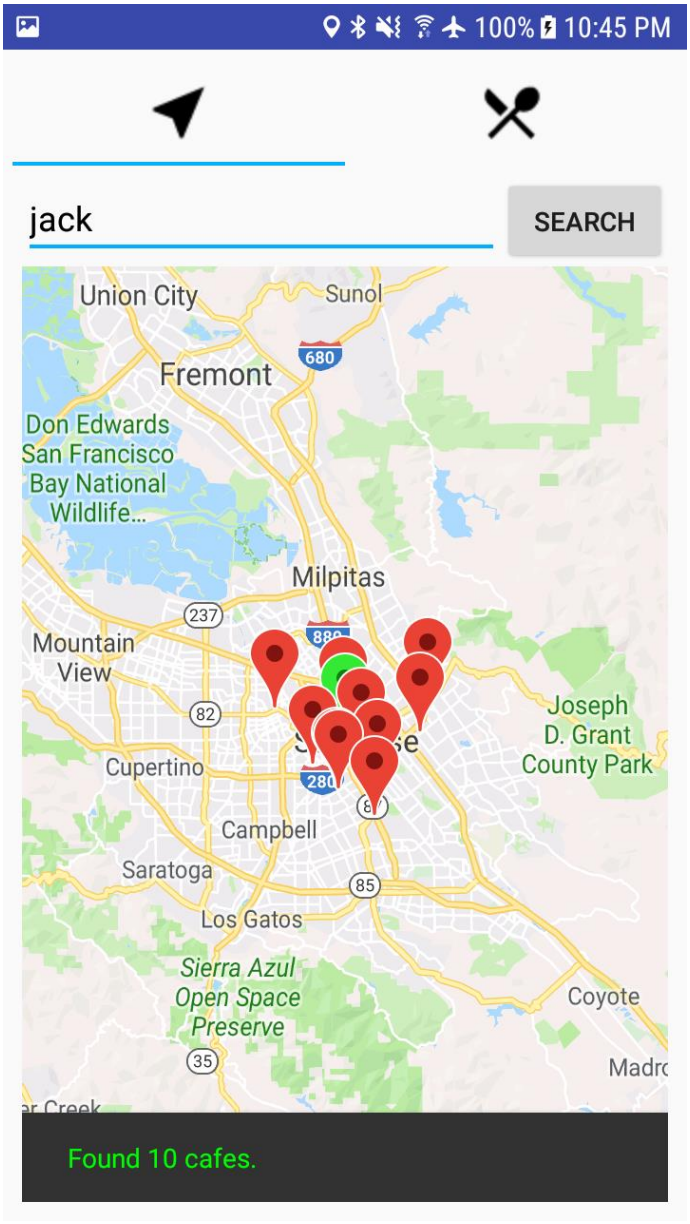
3. **Tab layout**


100% 10:45 PM
type name
SEARCH
Union City
Sunol
Fremont
Don Edwards San Francisco Bay National Wildlife...
Marker in Current Location
Mountain View
San Jose
Joseph D. Grant County Park
Cupertino
Campbell
Saratoga
Los Gatos
Sierra Azul Open Space Preserve
Coyote
Google

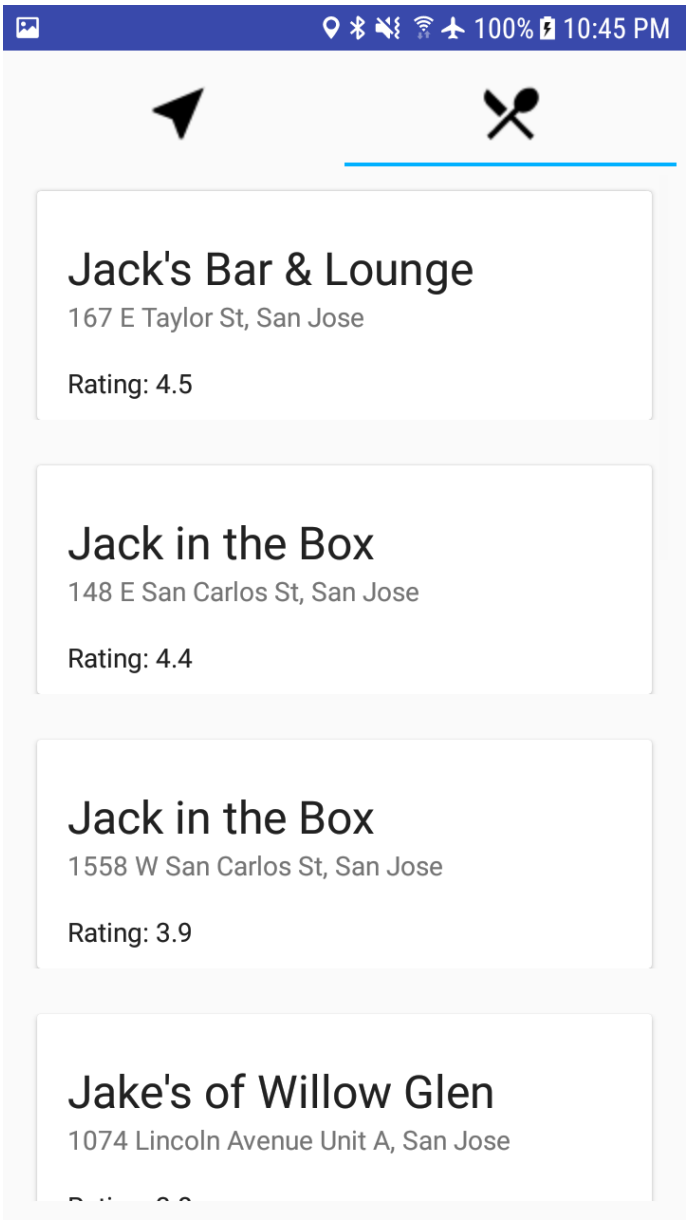
4. **MapView**


100% 10:45 PM
jack
SEARCH
Milpitas
ALVISO
680
880
Jack in the Box
Santa Clara
San Jose
101
EAST SAN JOS
280
17
Campbell
SOUTH SAN JOSE
Robertsville
Cambrian Park
Google
Alamitos
85

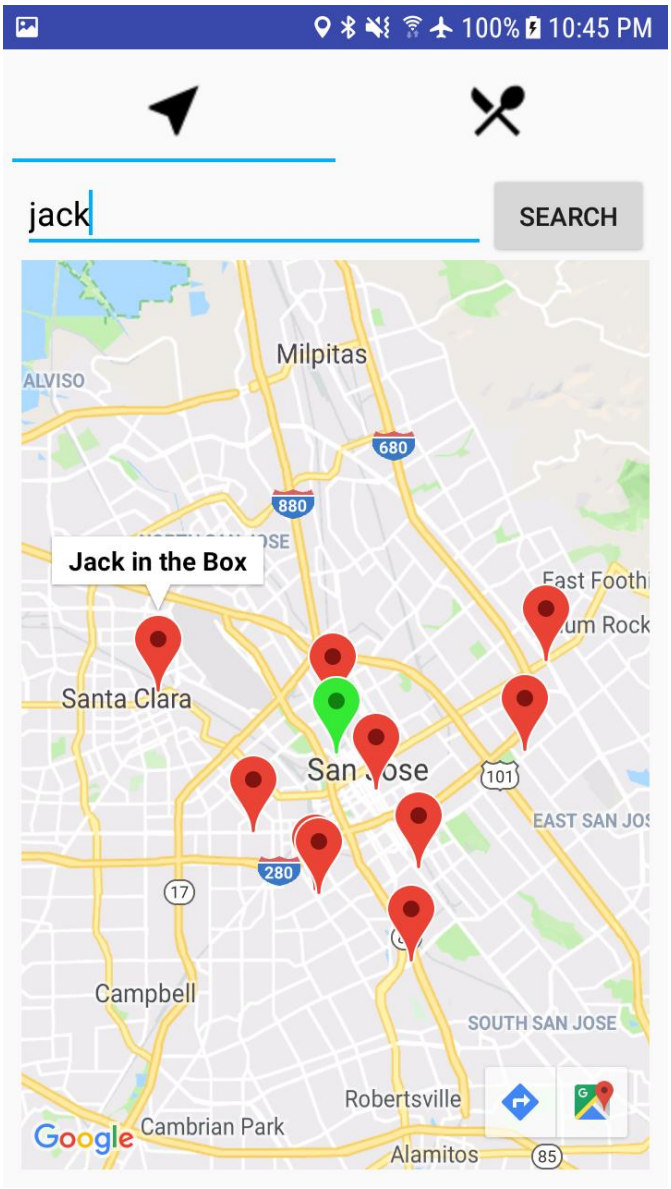
5. **SnackBar**


100% 10:45 PM
jack
SEARCH
Union City
Sunol
Fremont
Don Edwards San Francisco Bay National Wildlife...
Milpitas
Mountain View
Cupertino
Joseph D. Grant County Park
Campbell
Saratoga
Los Gatos
Sierra Azul Open Space Preserve
Coyote
Found 10 cafes.

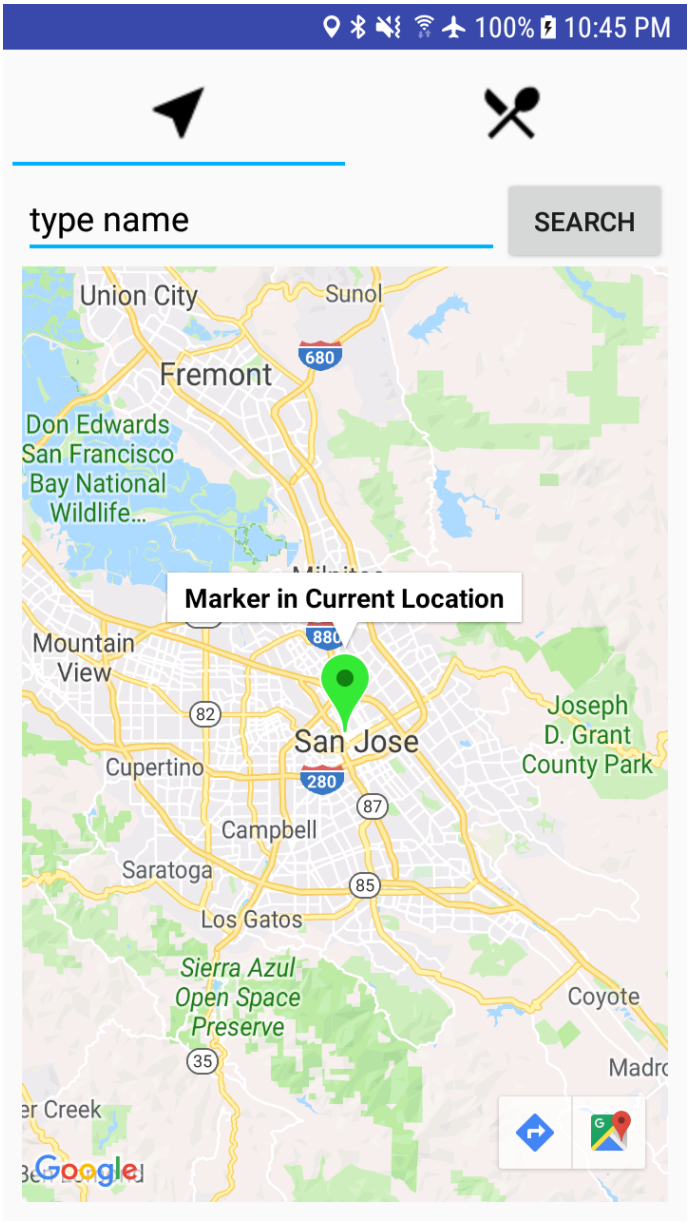
6. **RecyclerView**



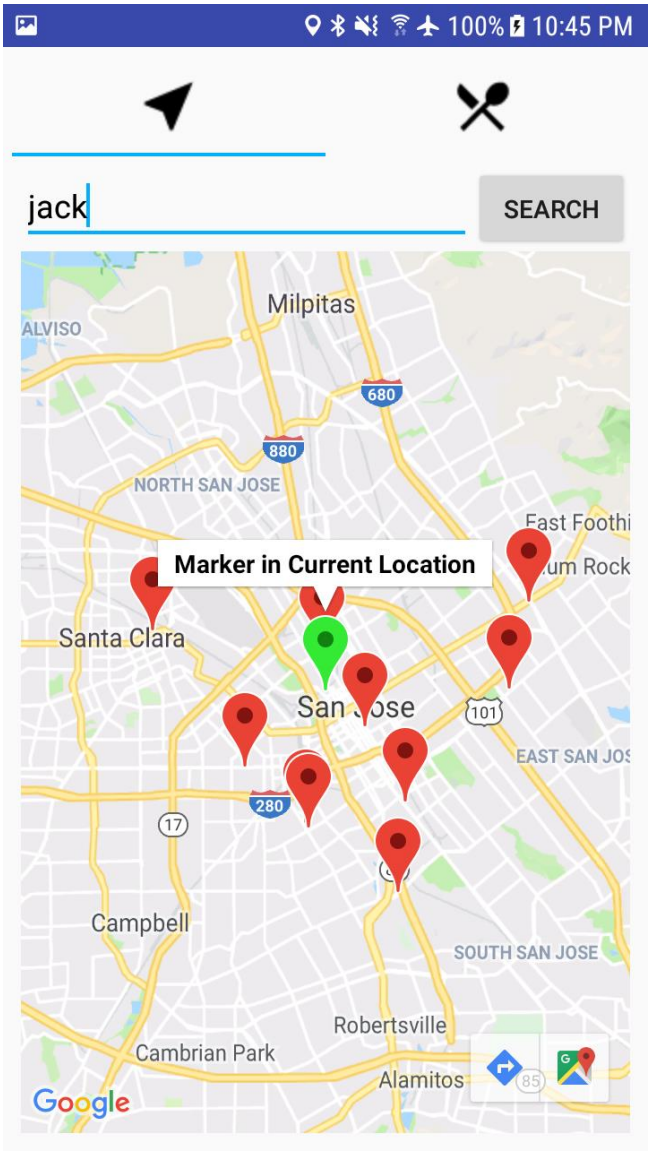
7. **Search Query**



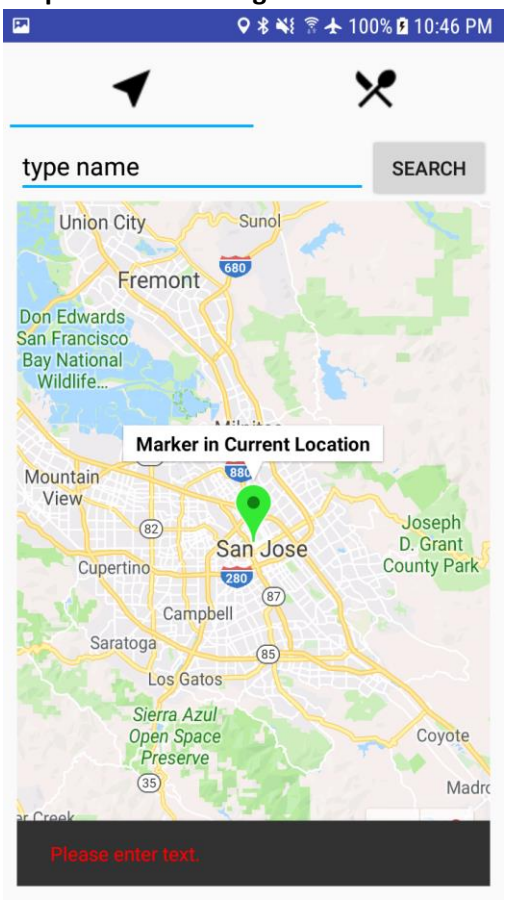
8. **Map should focus on the current location**

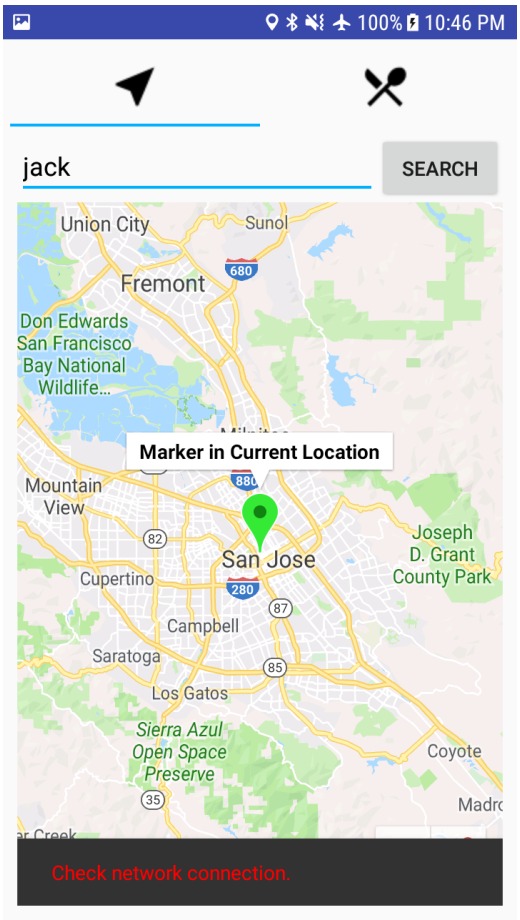


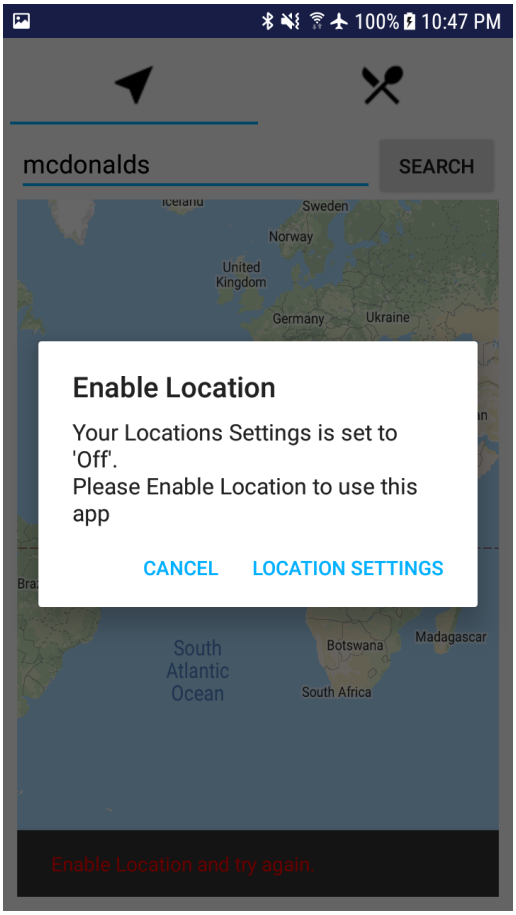
9. **Proper markers for showing current and nearby café**



10. **Proper error handling**






100% 10:47 PM
mcdonalds
SEARCH
Sweden
Norway
United Kingdom
Germany
Ukraine
Enable Location
Your Locations Settings is set to 'Off'.
Please Enable Location to use this app
CANCEL
LOCATION SETTINGS
South Atlantic Ocean
Botswana
Madagascar
South Africa
Enable Location and try again.

100% 10:47 PM
mcdonalds
SEARCH
Sweden
Norway
United Kingdom
Germany
Ukraine
Spain
Italy
Turkey
North Atlantic Ocean
Iraq
Iran
Algeria
Libya
Egypt
Saudi Arabia
Mali
Niger
Sudan
Chad
Nigeria
Ethiopia
DRC
Kenya
Brazil
Tanzania
Angola
South Atlantic Ocean
Botswana
Madagascar
South Africa
Enable Location and try again.