

Lab 3: “Where’s My Coffee?” Android Application

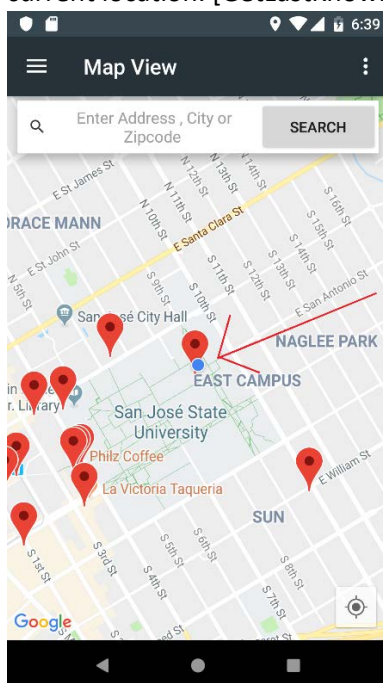
-By Akshay Anil Pagar

(013717379)

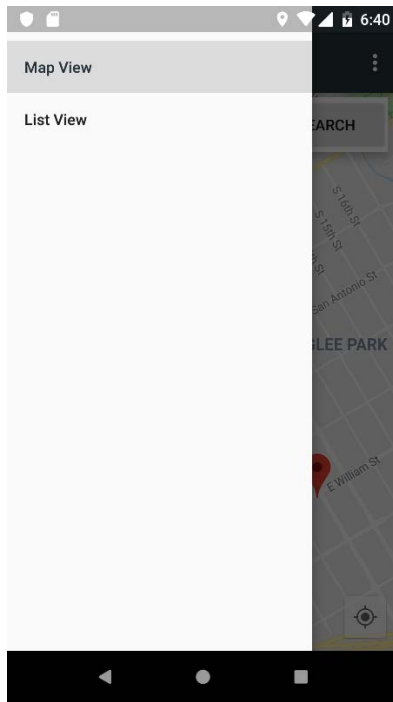
- 1- Show MapView : MapView can be shown by using google maps activity in your android application. This option will be provided at the creation of your android project.



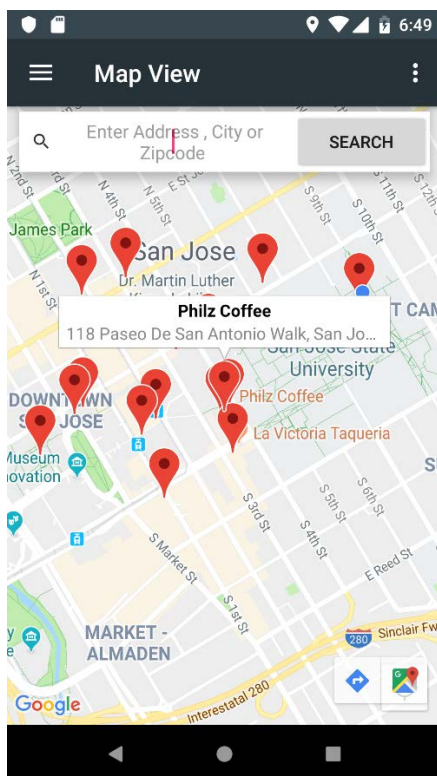
- 2- Map should focus on the current location : Location manager and GPS can be used to get your current location. [GetLastKnownLocation method]



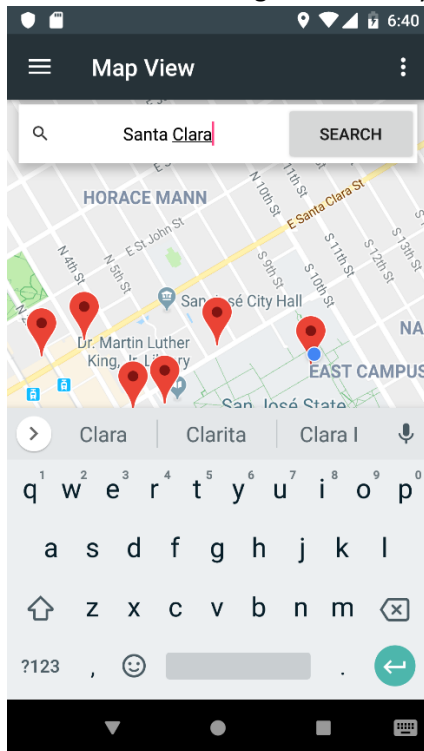
- 3- Use Navigation Drawer : Navigation drawer can be added to project by adding navigation drawer activity. The options can be handled using fragments.



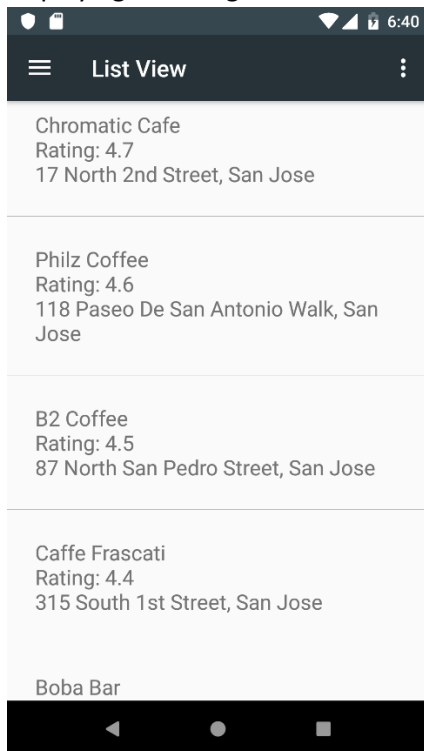
- 4- Proper markers for showing current and nearby café: For getting current and nearby cafés we can use google places API. MarkerOptions can be used to put marker on the maps.



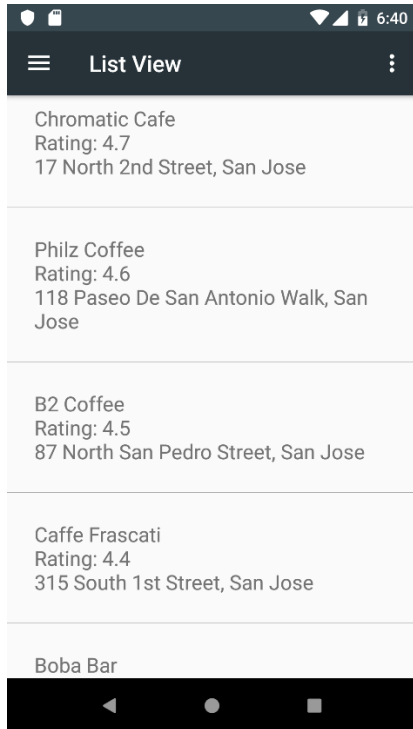
- 5- SearchBar with search functionality: SearchBar is used to find an area to locate cafes around. GeoCoder is used to get location by providing name.



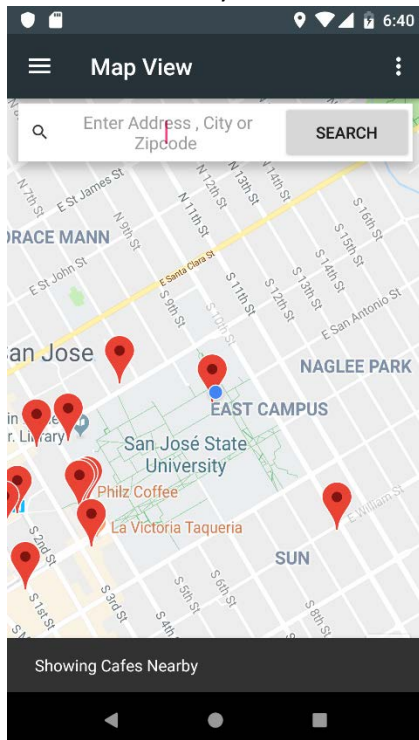
- 6- Use RecyclerView to list nearby cafe for the second activity: RecyclerView is a framework for displaying list and grid data.



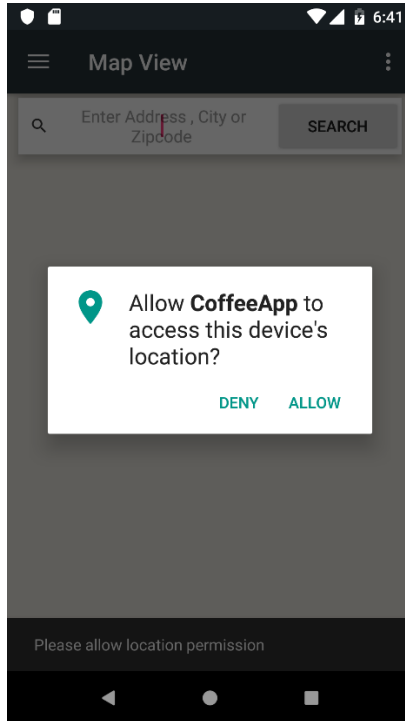
- 7- Nearby cafe listings should be ordered based on their review: The received JSON data from google places API request is in form of JSON array. This array can be sorted on the basis of double type value 'Rating'.



- 8- Use Snackbar to show any message/error: Snackbar is a small shortlived popup which appears on the bottom of your screen. This pop-up is used to display any message or error.



- 9- Proper error handling, should be able to handle network connectivity errors, absent Google Play Services Framework error, an absent GPS sensor, and missing permissions: Permissions can be handled using proper try catch methods and method checking if the given functionality is available.



- 10- Use of Material theme(Material Design Theme) : Material UI is a set of UI standard started by google. I am using color scheme from Material UI which defines 3 colors- Promary, Primary Dark and Accent[contrasting] color in my application.

