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OnTheWay

Description

This app help people find restaurants along the route and help them navigate to destination based on selected restaurant.

Intended User

This app is for users who wants to search for restaurants when they are going from one point to another. We get nearby restaurants functionality but

People who are searching for good restaurants on their way to home etc. OnTheWay is very useful when you are going in part of the city you don't know and are looking for restaurants which provides shortest route and required cuisine to your destination.

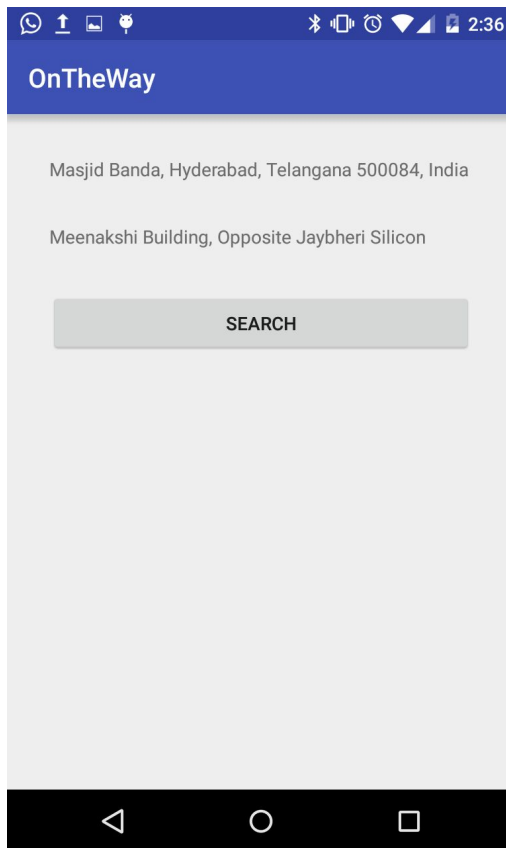
Features

- Search for restaurants along the route.
- Filter restaurant based on several criteria.
- Navigate through selected restaurant in Google Maps.

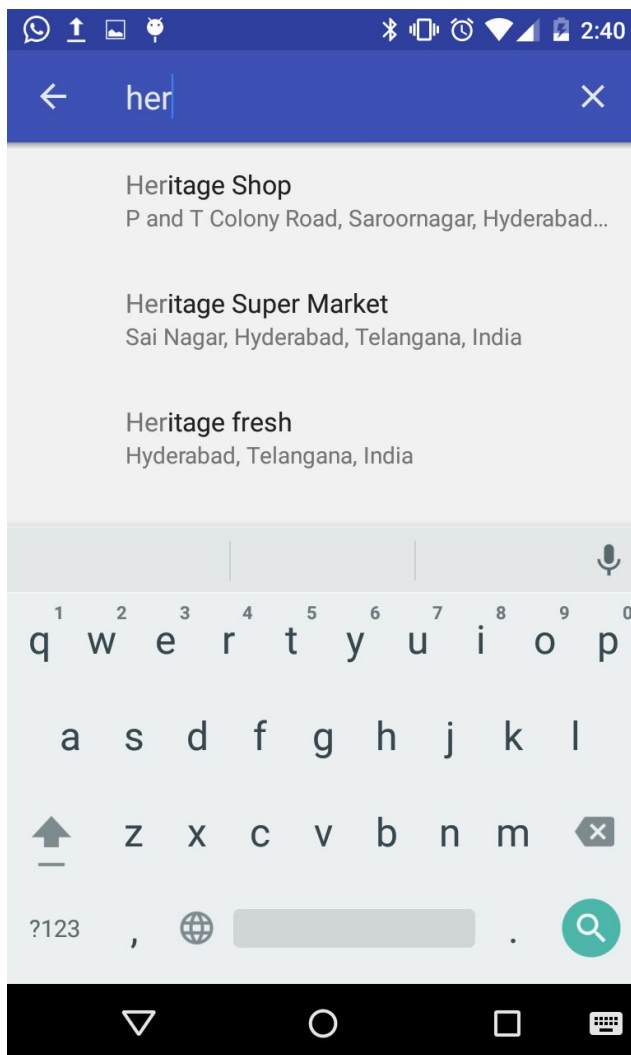
User Interface Mocks

Main Activity

1. Easy search screen, where user will enter source and destination and click on “SEARCH” button to navigate to Maps activity.

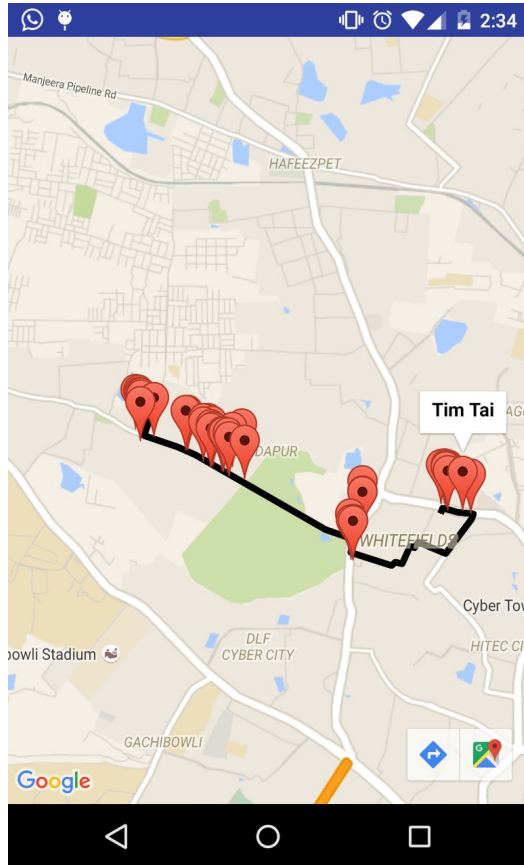


2. Using Google's auto complete fragment to search for source and destination.
PlaceAutoComplete intent is started and result is added to source and destination text view.



Maps Activity

Showing all the restaurants along the route set by user. User can click on any restaurant to view it's name.



Key Considerations

Data Persistence

- Restaurants which are fetched through API call will be stored in database so that user can apply filter to them locally.
- Any filter along that route won't require any API request.

Libraries

- Picasso : For rendering images.
- Content provider generator library.

Request for enabling location settings, as user's current location is required to find the route from source to destination.

Required Tasks

Project Setup

- Configure Google play services.
- Add Google Maps API key to query Google Maps.
- Add Zomato developers API(<https://developers.zomato.com>).

Activities and Fragment

- Main Activity :
 - Enter search query and filter criteria to search for restaurants.
 - Source can be user's current location or user can type in current location.
 - PlaceAutocompleteFragment will be used to enter destination. This will use Google Play services to search for places.
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- Maps Activity :
 - Define layout and necessary constants for Maps activity. Initialize this activity with a maps fragment

- Draw route by adding a polyline containing points obtained from Google Directions API.
 - Add Marker for each restaurant along the route.
 - Double clicking marker title will open restaurant details.
- Restaurant Detail Fragment :
 - Display restaurant details like name,ratings, photos, cuisine, cost for two.
- Launch Navigation : Open Google Maps app when user wants to route through selected restaurant.
- Filter Activity :
 - Filter fetched restaurant along a route based on cost, cuisine etc.

Configure Google Maps Directions API

- Setup base URI and query parameter.
- Pass from and to location to google directions api.
- Parse directions result to plot route from start to end location.

Configure Zomato API

- Set up base URI and query parameter to query zomato API.
 - Use zomato search API with latitude and longitude as parameter to filter restaurants.
 - Query Zomato API for restaurants within route by using “/search” path of Zomato API.
 - Parse zomato api data to add markers to Google Maps.
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