

How to Use this Template

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GitHub Username: arvind-m-a

Find the Essentials

Description

Have you ever found yourself stuck in an unknown location trying to find food, money or some kind of medical help? This app will help you find the nearest restaurants, banks and hospitals nearby to your location so that you don’t face any challenges in finding the three most essential things to survive – food, health and money!

Intended User

Any individual user who wishes to find nearby locations for food, money or medical aid. It will help travelers who are in unknown locations.

Features

The main features of this app are

- Provides a list of restaurants, banks and hospitals nearby to the users location
- Clicking on one of the restaurant or bank or hospital will take the user to a detail screen where they can get more information regarding the place.
- Details such as phone number, address, ratings and reviews etc will be present.
- User can directly call the location by clicking on the phone number if present which will open the dialer.
- There will also be an option to get driving directions to the location. This will open the google maps app.
- App will have a widget to show top nearby locations (only first few locations will be shown)

(One feature under consideration is if a user favorites a location, the app would notify him/her if they are near it.)

User Interface Mocks

Screen 1



Restaurant 1



Restaurant 2

This will be the opening screen of the app. This will show the list of nearby restaurants. Similar screens for hospitals and banks.

Screen 2



Name Restaurant 1

Address Xyz street, Bangalore, India

Phone number 123456789

Reviews

★★★★★

★★★★★

★★★★★

★★★★★



This is the detail screen. It opens up when clicking on any one of the restaurants/bank/hospital on the first screen. It has the main details of place like name, phone number, rating and reviews. It also has a button to get driving directions to the particular place. The phone number will also be linked to the dialer, so if user clicks the ph num it will open the dialer.

Key Considerations

How will your app handle data persistence?

Will connect to the google places api and get data and use a content provider to handle data persistence and will use loaders to load data into views

Describe any corner cases in the UX.

If user opens app when no network connectivity or location disabled, then proper error messages are shown

If user hits the back button it will go back to first screen if they are in the second screen.

Describe any libraries you'll be using and share your reasoning for including them.

Will be using Picasso for loading images of places.

Describe how you will implement Google Play Services.

App will be using google places api for showing nearby locations. This is part of google play services.

Next Steps: Required Tasks

Task 1: Project Setup

. Setup all required third party libraries and APIs required for the project.

Ex: Configure dependencies for Picasso, google play services etc.

Get the API_KEY for the project.

Setup any development environment required for the project, setup all the emulators etc.

Task 2: Collect and store data from the API

Implement task of fetching data from API, this would need multiple calls to places api and places details api and places photos api. Consolidate and store all data returned by the api. Use content providers for this purpose.

Task 3: Load data into UI views

Once data is gathered from API, add data into the first page. Create UI for this page, create adapters and loaders to handle putting data to the UI.

Task 4: Create detailed page

Create the detailed screen UI layout. Get the data regarding the place selected and display the data in the detailed screen. UI will show image of place, name, address, rating, phone number and reviews of the place. Ideally image will be placed in collapsing tool bar. Make sure to link phone number to dialer app
Create another button to show driving directions to this place.

Task 5: Add finishing touches

Add finishing touches to the UI and handle any error cases like no network connectivity or location disabled.

Add as many tasks as you need to complete your app.

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