Capstone_Stage1

How to Use this Template

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GitHub Username : https://github.com/namrata8092/capstone_stage

Places in My Circle

Description

Places in My Circle (PMC) is application which helps users to find useful services near current location as well as selected different locations. It is navigation tool which uses device location to identify where the user is.

Intended User

PMC is useful for normal person to travel lover. User can look for any service at anytime. It is very useful in emergency e.g. finding hospital or clinic nearby or gas station while driving. It also shows near by attraction points like museum or theatre.

Features

Key features of PMC is

1. User can search for different services like Hospital, Hotel, ATM, Gas station.
2. PMC search results is displayed in list view.
3. PMC is useful across world.
4. It automatically finds user's current location and shows on a map.
5. It provides detail description of place which includes photos, address, phone numbers, website, open / close hours.
6. User can save favorite place for future reference.
7. PMC is supported on all phones & tablets.
8. It allows user to share any place details with friends & relatives.

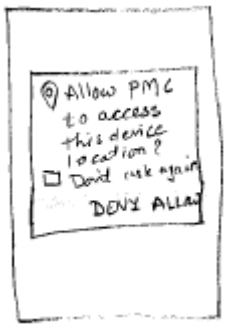
User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or

using a program like Google Drawings, www.ninjamock.com , Paper by 53, Photoshop or Balsamiq.

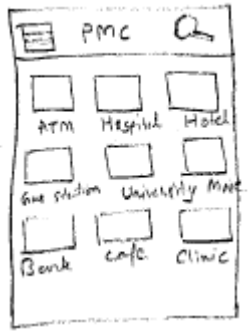
Screen 1

When user launches app for first time & if device is on android M or above version, user will be prompted for location permission.



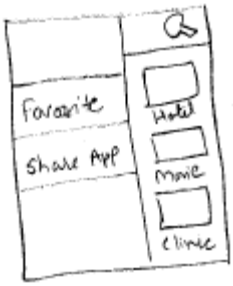
Screen 2

User will be presented with different options for near by places like ATM, Hospital, Hotel & so. User can select any category to view near by services. User can also use search icon to directly look for any specific place or service.



Screen 3

User has hamburger menu for quick search. Menu represents 2 options ie favorite & share app. Using favorite option user can check all favorite locations.
With share app option, user can share app details with others.



Screen 4

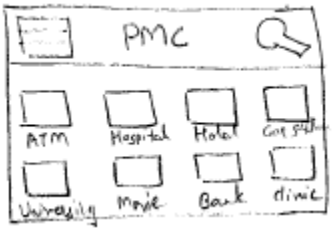
Depending on category selection user will be presented with list of places under that category. User can view places in list in ascending order by distance or name by selecting setting option.

Screen 5

When user tap on any of list item, PMC will show detail about that place or service. Detail screen shows picture, address, timing, reviews etc.
It also provides option to directly call the place or visit website or share that location or place details with others.

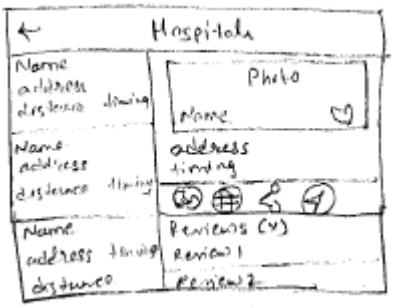
Screen 6

PMC Tablet screen is similar to phone. No of grid elements are varying based on device orientation.



Screen 7

PMC Tablet search result based on category will display list of places on left side & right side it will display detail about selected place.



Key Considerations

How will your app handle data persistence?

The app will use sharedpreferences to store user favorite places & location permission granted or not.

Describe any edge or corner cases in the UX.

1. Show map image when user's location service is not running.
2. Display list of near by places with their details on tablets.

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

1. Design Support library for material design
2. Volley to fetch data over network
3. Gson for parsing data
4. Logger for logging
5. Glide to display place image

Describe how you will implement Google Play Services or other external services.

App uses following google play services.

1. Location
2. Places
3. Map
4. Ad mob

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break
them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

1. Requirement gathering & analysis
2. Finding the best suitable APIs for location & places
3. Design flow diagram
4. Impact analysis of different libraries
5. Deciding best suitable libraries
6. Design UX screens for phone & tablets
7. Add ads banner

Task 2: Implement UI for Each Activity and Fragment

1. Implementing main activity.
2. Implementing fragments for different categories, search results, detail of any place or services.

Task 3: Generating debug & prod keystore

1. Generate debug & prod keystore for app.
2. Get Signing-certificate fingerprint

Task 4: Setting up google API key

1. Registering app on google dash board
2. Turning on places & maps api.
3. Generating maps, places API key for app.

Task 5: Fetching data & setting in UI.

1. Defining different queries to fetch data from server.
2. Setting volley library to get response over network
3. Setting transfer object & models for various responses.
4. Handling different network & location scenarios ie when no network or no location permission.
5. Displaying result in appropriate fragment.

Task 6: Writing Unit test cases & executing

1. Write unit test case for UI and functionality
2. Execute test case
3. Resolved any failures

Task 7: Adding ad banner to app

1. Configuring Ad mob to display ads.
2. Adding banner to app.

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