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Biciklo

Description

App aims to solve problem of increasing vehicle pollution in india and world. This is an on demand bicycle rental service. User can view and request ride from nearby stations to their location. If bicycles are available in that station , user will be allowed to take the allotted bicycle from that selected station. When user is done with the bicycle he/she can again check nearby station in the app and drop the bicycle at nearby station. After the completion of journey invoice of journey will be generated and will be shown in the app where user can make the payment (If applicable).

Intended User

App targets

1. The common man who is looking for some low-priced and healthy medium for travel, where he/she can request a bicycle through phone.
2. Those people who want to opt bicycle ride for shorter distance.

3. Those who care about the environment and are ready to use this service for their local commute.

Features

Normal user

- Complete journey with in app booking .
- Check his/her trips.
- Upload their KYC Documents copy.

Admin user

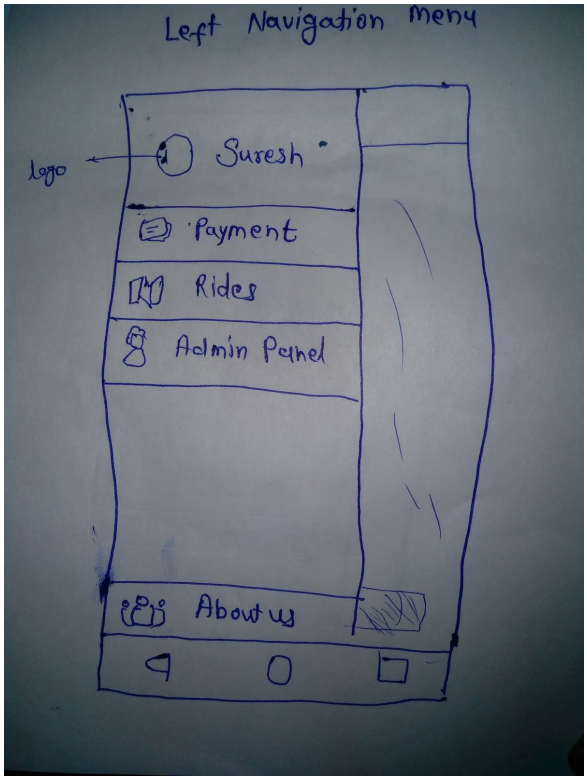
- Register new station in this platform.
- Register new vehicle in this platform.
- link vehicle with station.

User Interface Mocks

Screen 1

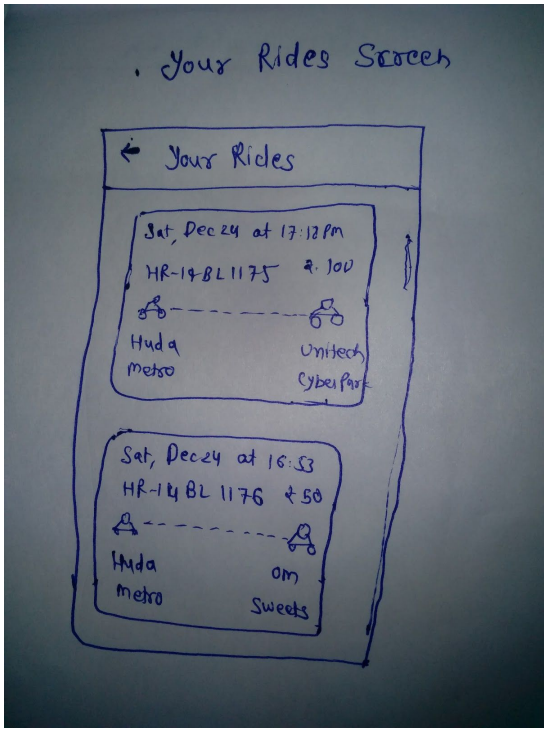
This is the home screen of the app where use can check nearby bicycles station of his/her location and request a ride by tapping on request ride button.

Screen 2



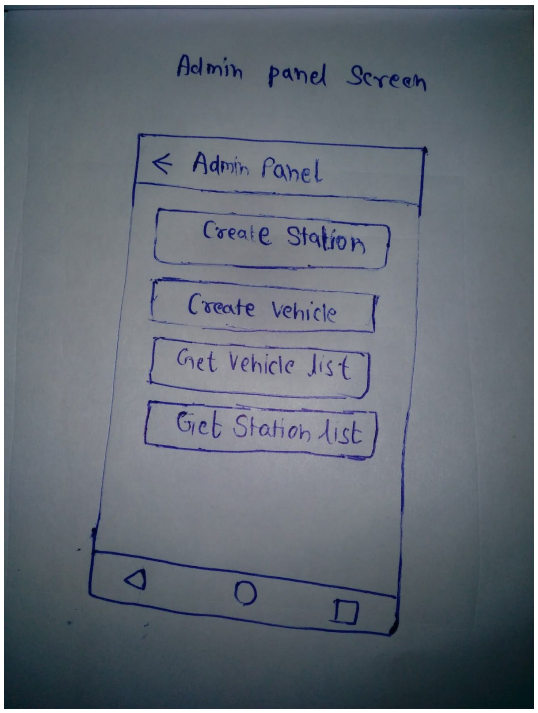
Left navigation menu where user can check his/her sides and explore other options.

Screen 3



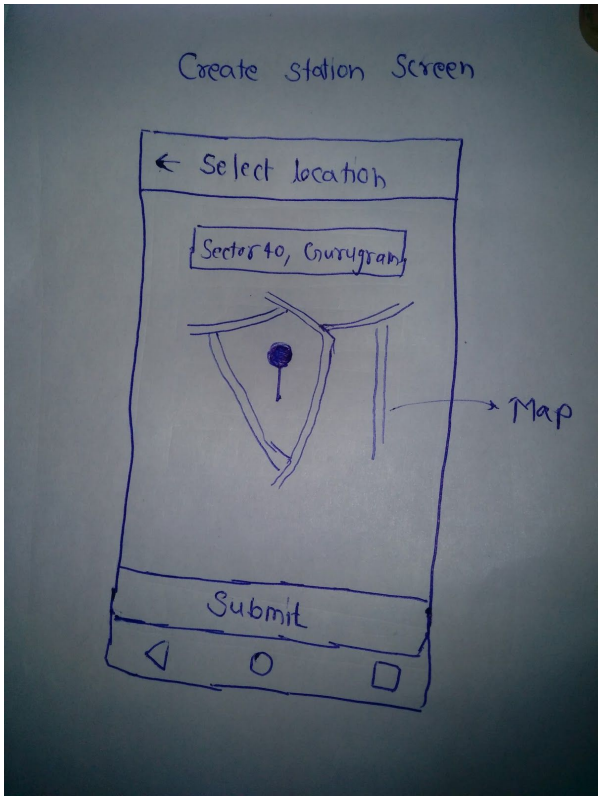
User can check their rides history and invoices.

Screen 4



This is for admin user where use can register new station, register new vehicle, check all registered stations and check all registered stations.

Screen 5

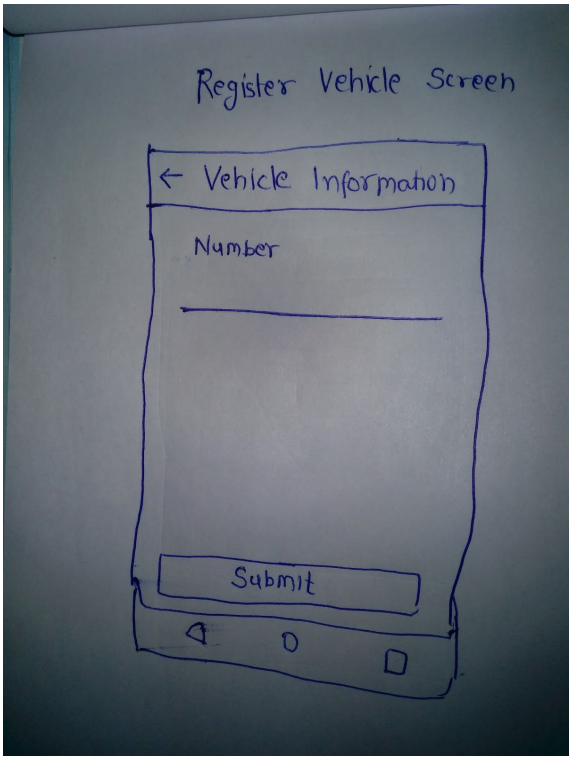


Here admin user can search location where stations needs to be created and move map to set station’s exact latitude longitude and press submit button to register the station .

Screen 6

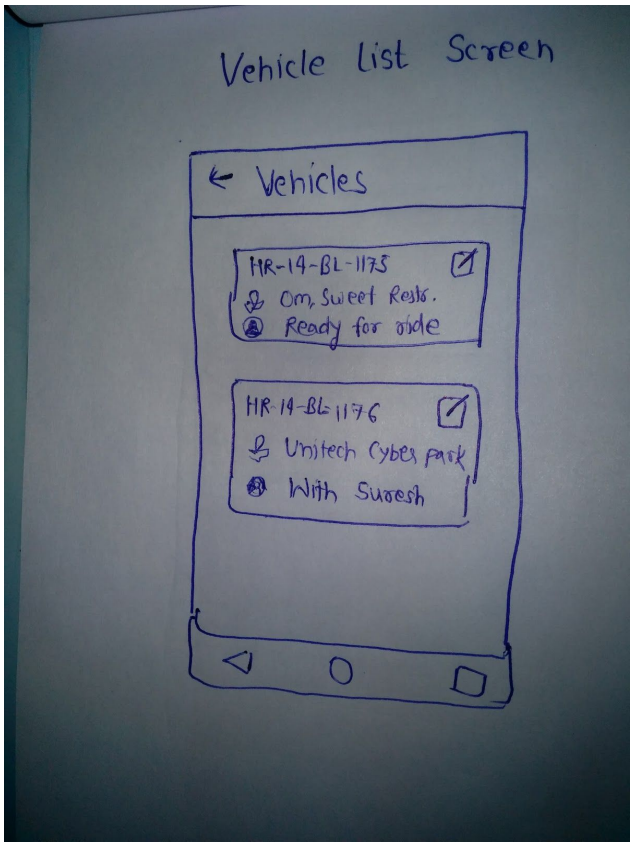
Here admin user can check list of registered stations and check available vehicles with that station.

Screen 7



Admin user can register new vehicle here by filling the form and pressing submit button.

Screen 8

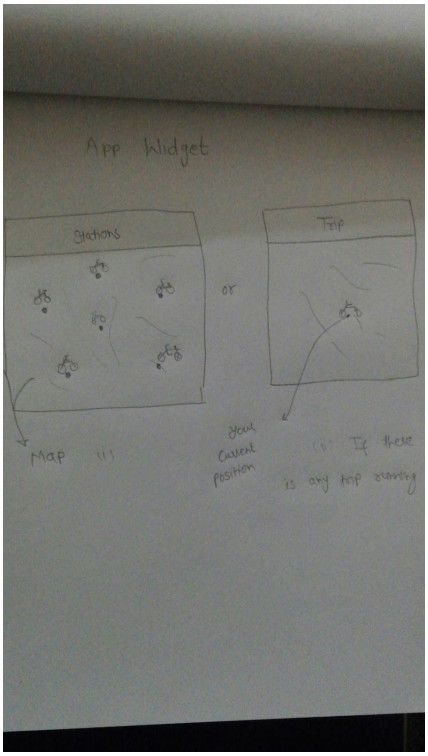


Admin user can check list of vehicles and move vehicle from one station to another station using edit icon.

Screen 9

User can check what is the vision of the app.

App widget



Key Considerations

How will your app handle data persistence?

Data will be saved in sharedpreferences in form of json serialized object

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

Google play services map,location -> for showing user's current location and presenting an intuitive UI to user to request a ride.
Retrofit -> For making https request with the server

Google play services places -> For showing location suggestion to select location for register new station screen.

Design support library, Card view library -> For using in various ui component.

Next Steps: Required Tasks

Task 1: Project Setup

Configure release and debug build variants and configure api url for debug and release build

Task 2: Implement Utility functions and packages.

1. Write code for utility functions in Apputils class.
2. Add package hierarchy for each type of classes.

Task 3: Implement UI for Each Activity and Fragment

List the subtasks.

- Build UI for Home Screen,left navigation
- Build UI for Rides list screen.
- Build UI for admin screens.

Task 4: Implements Google play service

- Location apis : To access to user's current location
- Place apis : To show location search suggestion

Task 5: Implements a ContentProvider to access locally stored data.

- Store stations list in content provider.

Task 6: Implement Data syncing on each session basis using Intent service.

Task 7: Implement Loader in Home Screen to move its data to its views.