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Rails of India

Description

Rails of India is an all-in-one stop application for Indian Railways enquiry with the most elegant and rich user experience. It allows users to fetch train related information such as live train status, train availability, train schedule, seat availability, check PNR status and many more with just a few clicks. So now gone are those days when we used to wait on counters for train related enquiries with this app.

Intended User

Anyone who is willing to travel by trains in India.

Features

The main features of the app:

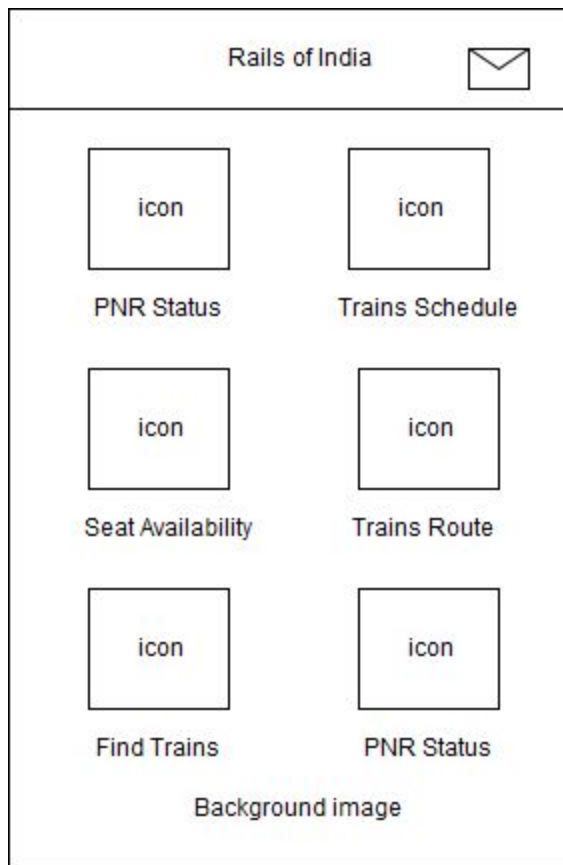
- PNR enquiry to check whether seat is confirmed or not.

- Seat Availability(between any two stations)
- Live Train Status
- Train Schedule
- Route of Train(with map)
- Cancelled Trains
- Train Arrivals at Station
- Notifications

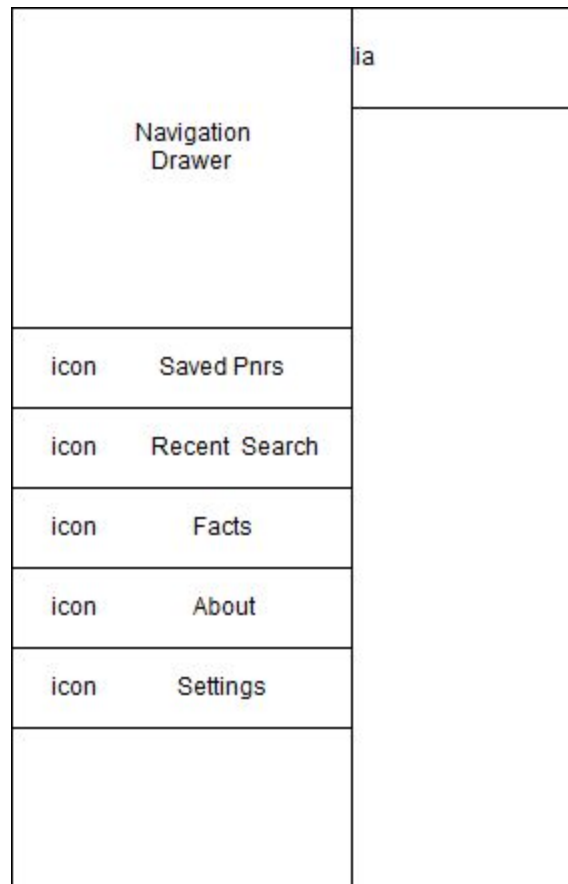
User Interface Mocks

Screen 1

MainActivity (Provides various app features)



Navigation Drawer to access given options



Layout for searching trains

←

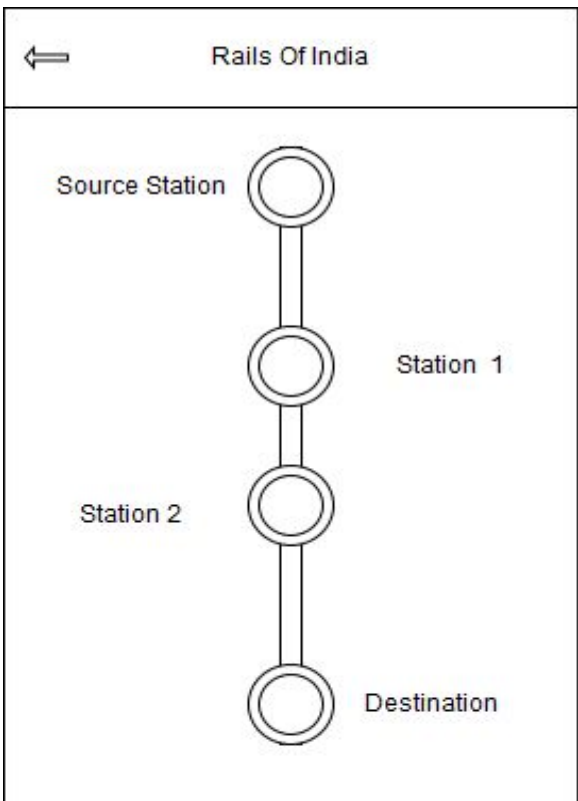
Rails of India

From

To

Date

Layout of Train Route



Screen 2

Layout of Seat Availability

←

Rails Of India

Train name

From station

To station

Train number

Date of Journey

Date	Seats available	class

Layout of App Widget

Rails Of India

Live Train Status

Cancelled Trains

Key Considerations

How will your app handle data persistence?

Data Persistence would be handled with the help of Content Providers and Shared Preferences.

Describe any corner cases in the UX.

1. In case of no internet connectivity, the user would be shown his recent search information. In case if there is no recent search then the user would be directed to activity showing some interesting facts about Indian Railways.

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

- 1.Retrofit : For Api calls
- 2.ButterKnife : For View Injection
- 3.Design support library : For Material Design
- 4.Google Maps Api : For showing Train Route
- 5.FireBase : For Notifications

Describe how you will implement Google Play Services.

Application will be using Firebase for notifications and Google Maps Api for Showing Trains Route.

Next Steps: Required Tasks

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

Task 1: Project Setup

- Create Project
- Configure libraries
- Create necessary packages
- Create Data models

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for Fragment
- Build UI for Navigation Drawer
- Build UI for Interesting facts Activity
- Build UI for all other features of app

Task 4: Technical tasks

- Fetch data from the Railway Api using Retrofit
- Persist data into database
- Use loader to load data from Content Provider and bind it to the views.
- Use AsyncTask for search feature in the app
- Implement Google Maps Api for Train route
- Implement notifications using Firebase

Task 4: App polishing

- Code Cleanup
- Improve UI with animations
- Handle Exceptions and App crashes

Task 5: Testing and Debugging

- Write Testcases and test accordingly
- Fix bugs if found

Task 6: Finalizing the App

- Publish app to Google Play Store
- Get feedback from users