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Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

GitHub Username: indiandollar

Rail Track

Description

This app is for users who wants to track the train information live from their phones. Users can check train status, seat availability, live train tracking, ticket information etc. The main focus of this app is to provide the most recent data to the user whenever possible. Users are able to save the trains information locally for offline view.

Intended User

Indian users looking for train schedules, fares, live train tracking etc.

Features

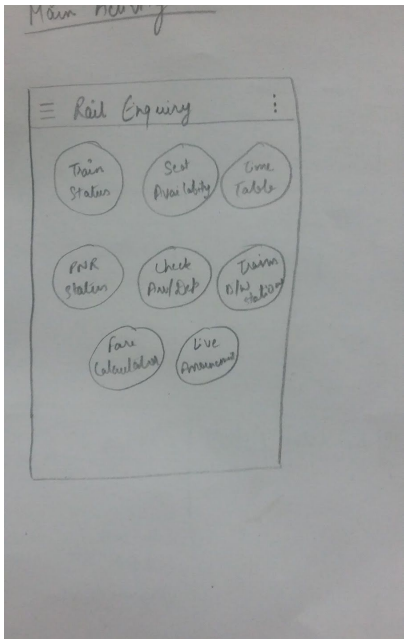
List the main features of your app. For example:

- Check train's current status.
- Seat availability
- View Train's timetable
- Check passenger & ticket details, provided the PNR id number.
- Option to find all the trains between two stations
- Check fare details for different coaches

User Interface Mocks

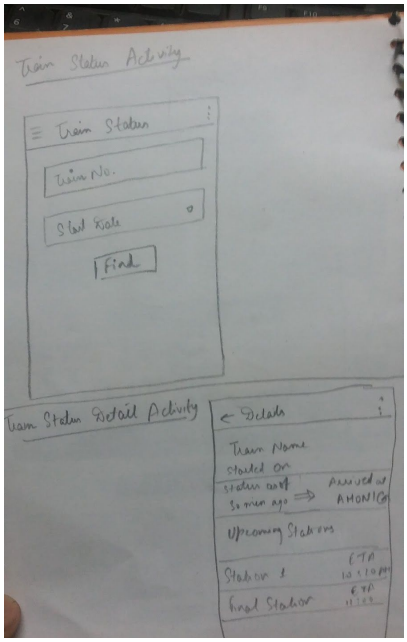
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



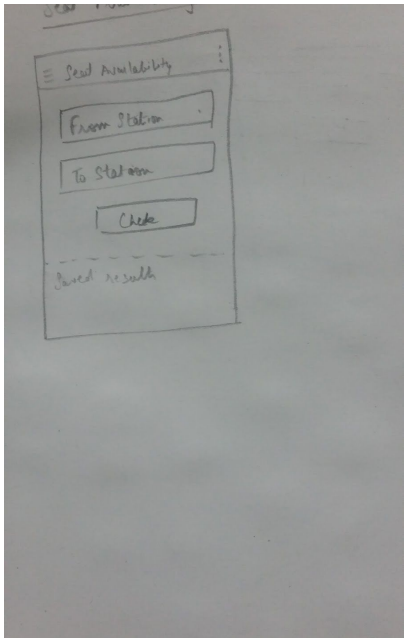
This activity has the buttons for each action this app provides.

Screen 2



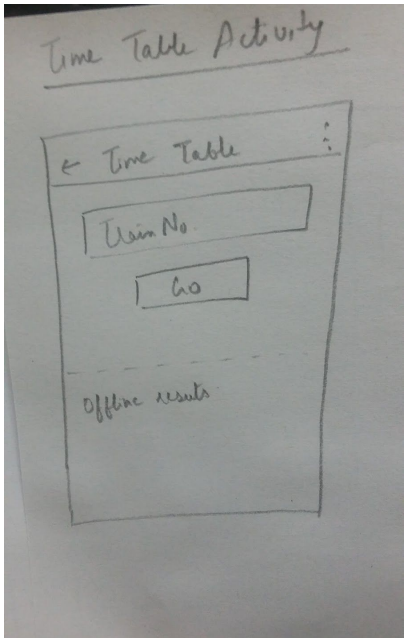
Users can check the train status by providing the train number and the departure date.

Screen 3



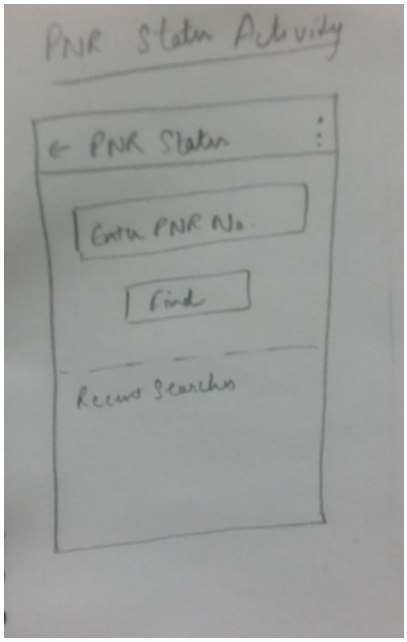
This activity provides the option to check the seat availability of trains by providing the from/to station information.

Screen 4



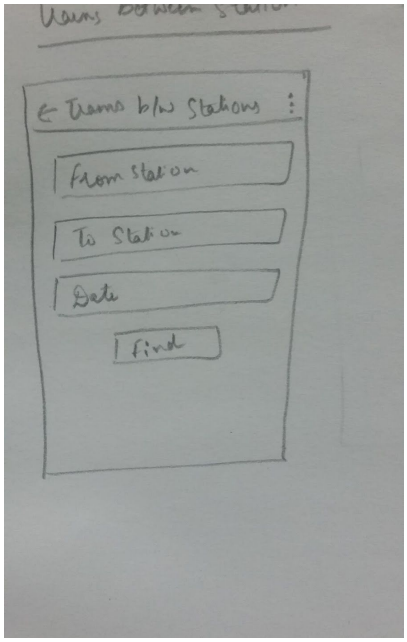
User can check the timetable of a particular train by providing the train number.

Screen 5



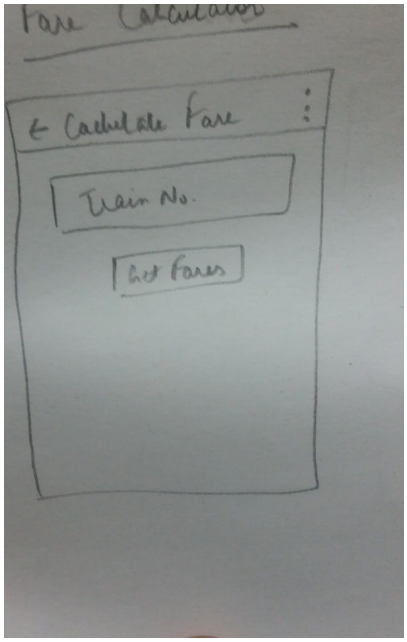
Activity to check the passenger ticket details by providing the PNR number

Screen 6



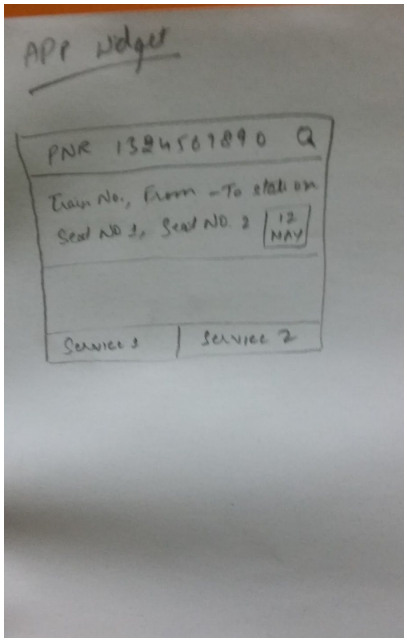
Activity to find all the trains running between two stations.

Screen 7



Check the fare details for particular train by providing the train no.

Screen 8



App widget provides the information about the passenger seats.

Key Considerations

How will your app handle data persistence?

The data is fetched from the api and I am planning to save all the searched information to user device for offline view. Users will have option to remove the data if that's of no use. I am going to use content providers for this.

Describe any corner cases in the UX.

Not available.

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

I will be using butter knife mainly.

Describe how you will implement Google Play Services.

Google Mobile Ads for free version.

Google maps to provide live train 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: Implement UI for Each Activity and Fragment

Build UI for MainActivity
Build UI for TrainStatusActivity
Build UI for SeatAvailableActivity
Build UI for ChecKPNRActivity

Task 2: Data Persistence

Fetch data from rest API when user searches something.
Implementation of IntentService to call the rest API
Create content provider to do database tasks.
Store the data in local database.
Create recyclerviews and adapters to display searched data.

Task 3: Testing

Defining tests
Running tests
Verify results

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