**SYNOPSIS**

**Title of the project:** Railway station guide.

**Area of project:** Android application

**Project Team Members:**

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**Motivation of Project:**

We wanted to develop a Railway Station Guide Android App which will help user to locate some place/things quickly on unknown station platform.

**Scope Of project:**

So many people travel daily in train and came across so many railway station and platforms. There is always problem to locate a book stall, canteen, bathroom, waiting room etc. on unknown station/platform. So we wanted to build an android app which will inform you which will be the next coming station and what is the layout of stations, like how many platforms, where is police station on map/own display. This will help user to get to know the next station before reaching the station and help to locate whatever we need on that station. Will would also like to add one more feature like, app would show how much time train will stay on this station and remind the user30 sec before.

The scope does not involve the out of the station information except for the tourist places.

**External interfaces/library:** Standard Google Map Library.

**Module Wise Description:**

**1. Passenger Module**

1.1 Register:

The passenger can register to use the app creating id, password.

1.2 Login:

The passenger can login to the system with its own id and password created at the time of registration.

1.3 View next station:

The passenger will be receiving the notification of arrival of the next station.

1.4 View complete station layout:

The passenger can view the whole platform wise layout of a particular station.

1.5 Set reminder:

The passenger can set a reminder of the particular station, which when arrives, the application will send an alert sound or vibrate.

1.6 Train waiting time:

The passenger will be able to view the amount of time the train is going to wait at the particular station.

1.7 Notify the location:

The passenger’s location is sent to the people he/she is going to visit.

1.8 Bogie location:

The passenger is sent a notification on reaching the destination and the coach position on the platform.

**2. Station Master**

2.1 Login:

The station master can login to his account of his station.

2.2 Enter data of its station:

The station master can feed in data of his station.

2.3 Layout of its station:

The station master can feed in or update the layout of his station.

2.4 Send notification:

The station master can send important notification to the passenger on the station.

2.5 Report misplaced baggage:

If baggage is reported lost the immediately notify the station staff and the other station masters, where ever the train is going to stop.

**4. Services**

4.1 Complaints register:

Passenger can post complaints about the services in the train.

4.2 Alerts or alarms:

The passenger can receive alerts and alarms for protection against thefts to take precaution.

4.3 Tours and travel guide:

The passenger can access information about various tourist places at the particular station.

4.4 Booking a prepaid taxi or rickshaw:

The passenger can book a prepaid taxi or rickshaw at any station.

4.5 Entertainment:

There will be an entertainment section wherein user will be provided with games, latest songs and news reading facility.

4.6 Locker:

Passenger can book his locker on the station and its availability.

**5. Multiple users**

5.1 Stay connected and can know each other’s location

**6. Indian Railway Information**

6.1Train Arrival and departure schedules:

Displays the schedule of the trains arrival and departure

6.2 The price of the tickets:

Cost of tickets according date ,the train and the source and destination.

6.3 Delay Notification:

Whenever the train has been delayed the passengers will be notified of this delay and the new arrival time.

6.4 Train Running Status:

Current location of the train and the time it will take to

**Hardware Requirements:**

- System : Atleast Pentium IV 2.4 GHz with  Windows OS.

- Hard Disk   : 40 GB.

- Floppy Drive: 1.44 Mb.

- Monitor : 15 VGA Colour/LCD.

- Mouse : Logitech.

- Ram : 2 Mb.

**Software Requirements:**

- Operating system: Windows 7.

- Coding Language : Java 1.6

- Tool Kit : Android 2.2

- IDE : Eclipse

**Limitations and Assumptions:** Need GPS full time so battery consumption will be high.

**Future Enhancement:**

1. Reservations of seats.

-Booking(online payment )

-PNR Status

-Seats Upgrade

-Arrivals and Departures.

2. Ticket Checker

- Check the booking number of the passenger and verify it from the database of the train booking.

3. Goods

3.1 Booking for goods to send:

A booking can be made for the goods to be sent by the goods train.

3.2 Type of goods:

The booking can be made for types of goods and their source and destination is listed.

3.3 Status of the goods:

The status of goods i.e. where the goods have reached presently how far are they from the destination and what is the arrival time and date for the goods at their destination.

3.4 A notification departure and arrival:

Notification for the departure of the good and the reaching of the good at its destination is given.