Team Description Paper

Team Details

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Problem Statement

To know the current location of people or status. Some may have dangerous or demanding jobs which require them to be constantly updating their status. Since this would be troublesome to be done actively. We provide it as a passive ability with the help of a mobile application, this can be used to note the vehicle the person is driving, where he is and whether he is free or not.

The officer is given the choice to choose the location manually or passively without any interaction by the user with constant time difference.

An android application where the application's primary purpose is to collect data and sent to the **server** which will be used by the client for their data manipulation as per their requirement. The working of the application is quite simple on the front end,

1. Open App.
2. Start the process.
3. Select your mode of transport and time interval.
4. Application runs in the background with foreground notification, during this time the user can close, pause or stop the process.
5. When stopped the data is uploaded to server automatically if internet is present else prompts the user.

The application is used to obtain the location data and the location name from their longitude and latitude at equal specified(variable) time intervals.

Features:

- **Supportability:** The application is made so that it would be able to work on most versions of android and has taken into consideration on part of the future support also, for now all versions above 4.1.1 are tested and capable of running this application without issue.
- **Usability:** Focusing on the User Experience the app is made easy to use with a main control button which is used for most of the applicaions usage which is made self explanatory.
- **Notification:** Since the app is capable of running in the background, a notification is made to appear to show the presence of running of the application which allows the user to be aware of the app.
- **Connectivity:** The traffic data obtaining process requires a good location service with GPS or data network or Wi-fi but the app has limited this usage as to needing the internet facility only at the end for the uploading purpose.
- **Server:** With our server data is sent to as JSON format which is stored in a database for easy handling.
- + **Features:** The speed of the vehicle along with the starting and ending location of the current data collection process is found and provided to the user.

Answer the following Questions (Answer all Questions)

1. What components and mechanisms were used to build your solution?

   Android Studio, photoshop, xampp server, smart phone.

2. Any innovative ideas in your design that you think would give you an edge over others?

   It's an invention, there are no predecessors to this, showing way around the shop for required products.

3. In how many parts you can divide your working procedure? (Min-5, Please Specify)
   - Officers must sign up/
   - Upload their details.
   - Give constant updates directly or passive mode
   - Updates are noted on server.
   - With this we can view the map
   - The map corresponds each officers location and availability status.
   - You can choose and assign a free officer.

4. Who are your target audience for your solution?

All officers and workers who have jobs related to moving from place to place.

5. What is your expectation for **JIT Hackathon**[#2.0]?

A fun place to unsheathe your weapons.

TEAM DESCRIPTION PAPER

Every team should submit the TEAM DESCRIPTION PAPER on or before FEB 1 to hackathonjit@gmail.com in the given format.