(ABSTRACT CLASS) Automobile -

Attributes:

Registration Number

NumberOfSeats

Gear

Speed

ServiceDate=""

Method:

Start() ;

Stop() ;

ApplyBreak();

ApplyAcceleration();

ChangeGear();

printDescription();

Two-Wheeler

Attributes:

Cadence

//////////////////////

Alternate idea - Separate class for helpline workers who have notifications(): ArrayList<String Message,Location loc>

Acquaintance - Sends driver location using getDriverLocation()

Driver - Sends his location using getDriverLocation()

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(ABSTRACT CLASS) USER -

Attributes:

Methods:

Login();

Change password();

UpdateDetails();

PlanTrip(); // enter dest location in-term of latitude,longitude && calculate distance using location class

Driver

Attributes:

Notifications(): ArrayList

Methods:

FixServiceDate(); //relate with automobile

CheckServiceStatus();

Driver's Acquaintance

Attributes:

Notifications(): ArrayList

Methods:

getDriverLocation();

Service Provider

Attributes:

ArrayList<ArrayList<DriverObj,ArrayList<vehicleObject,date>>>ServiceQueue;//when serviced ServiceP. changes dos to null

// when this happens using check service method user can be notified.

Methods:

GenerateBill();//when element from serviceQueue is popped, the DriverObj is sent payment notification.

Mobile safety application

Attributes

License no.

Date of Release

Methods

ABSTRACT CLASS Sensor

HeartbeatSensor

Attributes

intervalMeasure

Pulse Rate

Scale

<https://www.researchgate.net/publication/313810920_On_the_Correlation_Between_Heart_Rate_and_Driving_Style_in_Real_Driving_Scenarios> **RESEARCH PAPER**

Methods

giveAlert(); //Alerts if heartbeat goes out of normalrange

getPulseRate(); //may-be used by circuit

displayMood(); //Mood based on beat range

HelmetSensor

AlcoholSensor

Attributes:

thresholdConc

recordedConc

Methods:

checkIntoxication

Circuit

Attributes:

energySource??

Frequency??

isTriggered : boolean

Methods:

startAutomobile();

stopAutomobile();

checkCircuitState();