Mobile Phone Application To Provide A Safe Driving Using Global Positioning System

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Abstract: The project is entitled as “Mobile Phone Application to Provide A Safe Driving using Global Positioning System” is an android application used to provide the safe drive for the drivers. Most of the accidents were occurred due to the usage of mobile phones during driving. In the existing system, the user can reject the call with normal message by sending the notification that the user is driving just call back later. In the proposed system, the user opens the application when the user starts driving, if the bike speed reaches more than 30km/hr the mobile will automatically have switched to silent mode so that the user can not able to reach the mobile if receives any call during driving. The addition feature of the application that the user can able to send an urgent message with a present location to the given two contacts numbers during registration by simply making a call to that number. The advantage of this feature is used to intimate the location to the particular persons. The project is designed using Java7.1 as front end language and SQLite 3 as back end language.

Keywords: Employee Details; Sales Details; Product Details;

1 INTRODUCTION
The project is mainly used is to provide the safe drive for the drivers during traveling. The user wants to register into the application using the details such as username, email id, contact 1, contact 2 and password. Then the user login into the application with the details such as username and password. After login into the application, the user gets a home page which promotes to choose either the user wants to Phone communicate vehicle page or Location track and SMS page. The user can select the options to move to the next module based on the user propose. In Phone communicate vehicle module, when the user reaches above 30km/hr speed the mobile will automatically switch to silent mode. In Location track and SMS, screen provides the user to send a message in two ways such as SMS through GPS and SMS through the network. When the user selects the contact buttons, the application will make a call to the particular user and while calling the location message also send to that user.

2 OBJECTIVES
- The main objective of the project is to provide the safe drive for the drivers during traveling
- When the user starts driving, if the bike speed reaches more than 30km/hr the mobile will automatically have switched to silent mode
- This feature is essential because that the user can not able to attend the call during driving
- The user can able to send an urgent message with a present location to the given two contacts numbers during registration
- It is very useful to avoid most of the accidents occurred during driving and also used to share the present location

In regular days, most of the people were using mobiles for the daily purpose. The most of the accidents were occurred due to the usage of the mobile phones. Even though there are many applications available for the mobile phones during driving. Those applications are not providing an efficient use for the user. The Samsung brand is providing the Sbike mode for the Samsung mobile users. The Sbike mode is useful while driving the vehicle. The activation of Sbike mode is done manually. When the Sbike mode is on, the user can’t able to attend the calls while driving. So that the user can’t able to attend the call when the user starts driving the vehicle. When the Sbike mode is turn off the user can get the notification related to related to calls and messages. The Sbike mode only supports for the Samsung brand mobile and it does not support another brand mobiles. The application mainly used to switch the mobile to silent mode when the user’s vehicle reaches above 30km/hr speed during the travel. The user can share the present location with the particular person by typing the approximate location. But this application uses to share the exact location with the latitude and longitude points to the particular location which can be sent through the normal text message.

4. MODULE DESCRIPTION
- Registration And Login Page
- Home Page
- Phone Communicate Vehicle
- Location Track And SMS
- Phone Call Screen
- Message Sending Screen

4.1 Registration And Login Page
A new user has to register in the application with the details such as User Name, Email, Contacts and Password. Once registered, an account has been created to the particular user and the user gets a benefit of the application. Log in the user account using the username and password which leads to the particular account. After log in into the particular account, it leads to the Home page.

4.2 Home Page
Home screen is the second module of the application which is mainly used to choose either the user wants to Phone communicate vehicle page or Location track and SMS page. The user can select the options to move to the next module based on the user propose.
4.3 PHONE COMMUNICATE VEHICLE
In Phone communicate vehicle module, the module can be get started when the user’s vehicle is get started. When the user reaches above 30km/hrs speed the mobile will automatically switched to silent mode. If the mobile reaches to silent mode so that the user cant able to the calls while driving.

4.4 LOCATION TRACK AND SMS
Location track and SMS screen provides the user to send a message in two ways such as SMS through GPS and SMS through network. SMS through GPS sends the location as per the status of the GPS location and SMS through Network sends the location with the help of network presents.

4.5 PHONE CALL SCREEN
When the user presses the button of the first contact then promotes to make a call to the first user while calling the location message also send to the that particular contact. When the user presses the button of the second contact the same process will be done.

4.6 MESSAGE SENDING SCREEN
Message sending screen will send a message to the contacts which are given during the registration. The message will be send with the approximate location of the user with latitude and longitudes points to the given contacts.

5 EXISTING SYSTEM
In regular days, the Samsung mobile users can use Sbike mode while driving to avoid the calls and the Sbike mode will not support for all other brand mobiles. The user can reject the call with a normal message by sending the notification that the user is driving just call back later. The user can share the current location by sending the normal text message which takes some time for typing during driving.

Disadvantage
- The existing application does not support all brand types of mobile
- The user takes more time to operate
- Does not give the present location

6 PROPOSED SYSTEM
In the proposed system, the user needs to register the details such as Username, Contacts, Email and password. The successful registered person can login with Username and Password and the application gets started while driving. The bike speed reaches more than 30km/hrs the mobile will automatically switched to silent mode. The additional feature of the application that the user can able to send an urgent message with a present location to the given contact numbers.

Advantage
- Cost efficient for simple users
- Time consumption and gives an exact location for the user
- Access to all kinds of android mobile users

7 SYSTEM ARCHITECTURE

8 CONCLUSION
The main goal of the project is used to protect the drivers who cross the speed of the vehicle beyond the limit. When the user crosses the 30km/hrs the speed limit the mobile automatically switched to silent mode. So that the user can not able to attend the calls received during driving. The user can also send the present location to contacts given during registration. The location message can be sent in normal text format. This is useful to get the present location of the driver.

9 REFERENCES