ONLINE CAB BOOKING SYSTEM

Prateek Mishra, Mihir Garg, Shubham Singh, Vishal Yadav, Rohan Srivastava

Abstract

This project addresses the study of the recently launched Google Android platform, and its online application marketplace, called the “Android Market.” The project examines the paths to success for third-party developers building applications for Android by comparing them with application development for the Apple iPhone. In addition, the project also includes a study of the Android business ecosystem. This project describes a practical model for routing and tracking of vehicles in a large area outdoor environment, based on GSM i.e. Global System for Mobile Communication and GPS i.e. Global Positioning System. The supporting device GPS continuously move with the vehicle and records the position of the vehicle. It can be communicate with the help of GSM modern which is installed in both transmitters and receivers, when it is required by the owner.

The main goal of this project is to develop an accessible and comprehensive Eclipse structure application, can potentially assist individuals to book a taxi from a phone and for the company to maintain a database for booking and sending driver details.

About

A Cab Booking/Hiring is a system that can be used temporarily for a period of time with a fee. Hiring a car assists people to get around even when they do not have access to their own personal vehicle or don't own a vehicle at all. The individual who want to hire/rent a car must first contact the cab hiring company for the desire vehicle. This can be done online. At this point, this person has to supply some information such as: dates of rental, and type of car. After these details are worked out, the individual renting the car must present a valid Identification Card. Most companies throughout the industry make a profit based of the type of cars. The hiring cabs are categorized into economy, compact, compact premium; premium and luxury & customers are free to choose any car of their choice based on their purse and availability of such car at the time of reservation.

LITERATURE REVIEW

Literatures on the prior research work done by accredited scholars in the Ubiquitous Computing domain are reviewed. Challenges and solutions proposed are in specific to context aware location based service are presented here.
Ubiquitous Computing is an emerging technology and has lot of challenges in design, modelling and user interaction which are identified and implemented in this organizer application

SOFTWARE PROGRAM

The software programming is done in 'HTML5 with php' language. Data (co-ordinates) received by GPS from the satellites is defined in the software. The mobile number of the user should be included in the software programming to receive the location values from the SIM card which we are using in GSM modem.
These messages are ASCII character set. GPS receives data and present it in the form of ASCII comma – delimited message strings. '$' sign is used at the starting of each message.
The locations (latitude and longitude) have the format of ddmm.mmmm. i.e. .degrees minutes and decimal minutes. The software protocol consists of the GGA (global positioning system fixed data) and GLL (geographic position latitude/longitude).

Main Module's

- Sign up
- Driver And Customer booking
- New Booking and cancel booking.
- Confirm booking xi
- Transaction Status

Application

Call Taxi System is used to maintain the user database in the format. It also very easy to retrieve the accurate data from a database, here all the information about the user are maintained securely and also here we achieve the confidentiality for the data's stored in the database. Concerning the actual execution of the database update, once the system has verified that the Booking be safely inserted to the database the data can be easily accessed and be used for further purposes and also the transactions can be done both the ways. Its applied by retrieving information from the database and storing through the android application.

Highlights of the Project

A system which can be used for user to login to connect a database is proposed. The user can just login to the system over internet, and book the taxi from location to location. With the help of the proposed system, user can book taxi without making phone call, which takes time to wait to call in. In the proposed system, checking the data that are entered in the databases does not violate privacy, and performs such verification without seeing any sensitive data of an individual. Under this approach, the entire tuple has to be revealed to the party managing the database server, thus violating the privacy of the user. Another possibility would be to make available the entire database to the user so that the user can verify himself if the insertion of his/her data violates his/her own privacy. This approach however, requires making available the entire database to the user thus violating data confidentiality.

FUTURE WORK

Invocation of web server and retrieving the relevant discount information into a mobile device is in progress. Thus marching towards building a complete location based service .In the same way one control the other applications by means of GPS locations. It will be very useful for security purposes and to control the activities of the users in a certain area.

System Specification

The hardware and software requirements for the development phase of our project are:

Software Requirements :

Hardware Minimum Requirements :

PROCESSOR : PENTIUM IV 2.0 GHz, Intel Core 2 Duo.
RAM : 512 MB DD RAM
Phone : Android Phone
KEYBOARD : STANDARD 102 KEYS