

A Survey on Route Management System Apps

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Abstract— Now-a-days people are facing many security related problems while travelling. In such situations, they are helpless and don't have any way to protect them or inform it to their family member. Hence there should be a system to protect them in such times. So this Route Management system helps them to seek help in any critical situation. For that, the system contains GPS to detect location and GSM mechanisms to pass their current location to anyone of the trusted contacts as a google map link. So that, an Android Application is deployed with initial registration of Mobile numbers. An Application which is deployed in the mobile devices can be able to Track the current location of the vehicle. If the location of vehicle route changes is been analyzed with the GPS and the data are sent to the parent Phone number. In this paper, both the logic of tracking the vehicle using its number that is been registered with the authorized mobile number. The registered mobile numbers can get the SMS alert from the vehicle location. This process is reworked continuously to track the android mobile phone. The motivation for every location based information system is: "to assist with the exact information, at right place in real time with personalized setup and location sensitiveness". Such needs can only be catered with the help of location based services. As the use of Smartphone, tablets, pamphlets based on android operating system is increasing, many scenarios related with location tracking system have already been proposed and many software based on vehicle tracking have also been developed, but most of these software are not freely available and it's difficult to identify the location by just using technologies like sensors. This vehicle tracking application presents a technique to track the location of college transport using an application present in a mobile devices the scenario proposed in this work is totally dependent on the GPS and SIM card of your Smartphone which would contain application for sensing over the particular location. Once this software is installed, it will work in the background, stores the vehicle number with the application. Software which would continuously keep checking through GPS. The enviable advantage of this software is that it is very easy to configure and keeps running in the background without interrupting the user which aids in identifies the location of vehicle.

Key words: GPS, Location, Android, Smartphone

I. INTRODUCTION

The roots of Vehicle Tracking Systems lie in GPS (Global positioning System). They required some sort of system to determine where each vehicle was at any given time and for how long it travelled. Initially vehicle tracking systems developed for identify the exact location. In passive tracking system a hardware device installed in the vehicle store GPS location, speed, heading and a trigger event such as key on/off, door open/closed and where is tis been connected with the mobile application. When vehicle returns to a specific location data is been passed to the registered mobile number.

Real time tracking system like GPS required to transmit the collected information about the vehicle after regular intervals or at least could transmit the information when required by monitoring station (smart phones). Active systems were developed that transmit vehicle's data in real time via cellular or satellite networks to a remote computer or data center. Many vehicle systems that are in use now days are some form of Automatic Vehicle Location (AVL). It is a concept for determining the geographic location of a vehicle and transmitting this information to a remotely located server. The location is determined using GPS and transmission mechanism could be a satellite, terrestrial radio cellular connection from the vehicle to a radio receiver, satellite or nearby cell tower. After capture, the tracking data can be transmitted using any choice of telemetry or wireless communications systems. GSM is the most common used service for this purpose. In this project a microcontroller is used for interfacing to various hardware peripherals. The current design is an embedded application, which will continuously monitor a the location of a particular vehicle data that is been sent to the authorized (registered mobile numbers) Vehicle tracking system is widely used all over the world to assure their parent's that their wards are safe from suspicious actions in today's world. Over 80% of the world population in the age of seven or eight owns smart phone. The proposed system includes tracking the child movements outside from the home. This is due to reason one of them is the remarkable features and capabilities that new smart phone offers especially android based smart phones. GPS offers outstanding capabilities in locating positions and this can be used to developed resourceful application that helps in accessing the presence of child location through vehicle number from the android mobile application. This project is designed to be used by parents and aimed to help locating missing or lost children. In this paper GPS is combined with one of the basic service of a smart phone which is GSM more specifically SMS in one system.

II. RELATED WORKS

- 1) YunusOzen, OguzhanOzdemir, NeclaBandirmaliin the year 2015 described the requirements behind first responding monitoring are usually tight due to the intrinsic characteristics of the job. To understand end-users requirements, an online survey and a workshop have been organized with firefighters and relevant authorities. The outcomes of those activities outlined several requirements that need to be met by a tracking system. Rapid evaluation of wireless technologies has provided a platform to support cost-effective systems in the domain of location tracking. Mobile devices such as mobile phones are common and mobile internet access is possible everywhere in daily life in most of the cities. Background location tracking is important for next generation location based applications. Monitoring of a user continuously needs energy-efficient tracking

algorithms. Walk The Droid is a location simulator based on an android emulator to test location tracking algorithms. Hybrid positioning techniques try to reduce energy consumption by only using the most energy efficient approach as long as the accuracy is sufficient. In proactive tracking scenarios, hybrid optimizations are promising. Bareth and Küpper use a hybrid hierarchical positioning system with an underlying static heuristic to reduce energy consumption whereas Lin et al use a dynamic model in an otherwise similar approach. It stores location changes when internet access is not possible and synchronizes as soon as the mobile device is connected to internet. Monitoring application alerts when one of the clients does not send location data at predefined interval to server and becomes unreachable. If client device's battery is nearly empty, monitoring application alerts the monitoring user about client's last location and time, then it stops working. It stores location changes when internet access is not possible and synchronizes as soon as the mobile device is connected to internet.

- 2) Salvatore Tedesco, lasurbekKhodjaev, Brendan O'Flynn in the year 2015 described the inhalation of smoke and toxic gases due to indoor fires affects more than 100,000 people in Europe every year. Some of these gases are undetectable by humans and may cause long-term injuries. Many of the existing fire safety systems are designed to detect and respond only to smoke and heat. However, these elements are mainly present during the latter stages of the fire cycle when the silent gas killers have been already released. In addition, current fire cells are based on expensive optical detectors, have large form factor and do not provide information about the location of people in the flaming building. Nonetheless, firefighters constantly put their lives at risk. Hence, these workers should be equipped with reliable, wearable personal health monitors, which are able to detect multiple hazardous gases at low concentrations, monitor person's health conditions and track its indoor locations. Sunlight, while ultrasounds require line-of-sight. Cameras or night-vision are small and low-cost, and represent a good alternative when maps are not available. Tracking rescuing personnel within buildings in emergency situations and providing reliable communications among them is a problem which has attracted considerable attention in recent years. The firefighter position is estimated on the server through a robust tracking algorithm, which may be based on different approaches, such as least squares, Kalman filter, particle filter, and so on. This system requires the workers to drop anchors in specific points inside the building during rescue operations, which is not practical for real scenarios.
- 3) Ashraf Mohamed Ali Hassan in the year 2016 this system utilizes the integrated Bluetooth modules in any today's mobile phones to specify and display the location of the individuals in a certain building. The proposed system aims for location tracking/monitoring and marketing applications for whom want to locate individuals carrying mobile phones and advertise products and services. It is an integrated embedded and desktop system that helps the user to get the location of customers/inhabitants/employee within a certain region. The system is composed of a Server Module which is a java application that runs over desktop PC and is used to display the locations of the nearby mobile phones and send location based advertising message. This paper is aimed also to enhance the system positioning estimation accuracy by choosing the suitable number of neurons used in the neural network. The proposed system consists of a server module which is a java application that runs over desktop PC and is utilized to display the locations. The system also consists of locating modules which can be written in C and run over the Bluetooth-enabled boards which are used to periodically collect the Bluetooth addresses of the nearby devices/mobiles accompanied with their sensed signal strengths. Three rules provide a starting point for the guided trial and error process, with the help of the visual tool "Neuroph Studio". A bias input always has the value of 1. Without a bias, if all inputs are 0, the only output ever possible will be a zero.
- 4) Subhanjan Saha, Samrat Chatterjee, Amit Kr. Gupta, Indrajit Bhattacharya, Tamal Mondal in the year 2015 describes about power consumption of a GPS unit is much more than any other sensors in a smart phone. Worse, the GPS unit cannot be switched off even if the smart phone is in sleep mode. GPS, in addition, is not effective in indoor locations because suitable number of satellites cannot be obtained for acceptable communication. To overcome these problems, in this work, we have proposed a low power and low cost fast location tracking system for a smart phone device that is effective in tracking continuous locations of a moving device with very good accuracy. The inbuilt sensors of a smart phone like the accelerometer, the magnetometer and the gyroscope have been utilized, instead of the costly GPS unit, to track the continuous locations of a mobile device. Distance covered between any two time instants is calculated using the accelerometer readings, while the magnetometer readings give the direction of movement of the mobile device. These sensors are used to get an initial estimate of the number of foot counts and the average foot length of the person that carries the smart phone. The system has been tested on both indoor as well as outdoor locations without any observable differences in performance measures. Huge savings in terms of battery power consumption, as high as 20 percent for a run of 3 hours, have been found, with savings increasing rapidly with the increase in time of run of our system. The initialization step starts by asking the user to provide some initial information to calculate the foot-count and foot step length. The implemented system has been tested in both indoor and outdoor locations without any observable differences in performance.
- 5) Dr.Velayutham.R, Sabari.M, SornaRajeswari.M, in the year 2016 explains about them is behavior against children and women are increasing day by day. They are under the threat of easily being kidnapped. In such unsafe situations there must be a mechanism that is easily affordable to handle those situations. Hence this system

combines both GPS and GSM technology to provide a hand in such situations. The GPS is used for identifying the locations and GSM is used for sending them as a message. Basically, a pattern has been framed using the change of acceleration due to gravity when a footstep is taken. These values are then used to continuously find the location of a mobile person carrying the device. The system based on these sensor measures has been implemented on Android based smart phone devices. Implementation results have generated an accuracy level of as low as 2 meters distance. These signals are received by the GPS receiver to calculate user's exact location using the methodology called "Triangulation" In order to calculate its position and time, the space based GPS receiver receives the time stamp or time on atomic clock, satellite's position and arrival time at different points from the satellite which are all in view. The problem of feeling helpless in a missed situation can be solved by this system. This system is required in situations like being kidnapped by strangers or being missed somewhere. In "GPS and SMS-Based Child Tracking System Using Smart Phone", the child cannot send its location by itself.

- 6) Lei Zhang, Student Member, IEEE, Jiangchuan Liu, Senior Member, IEEE, Hongbo Jiang, Member, IEEE in the year 2013 explained about the core enabler of most location tracking applications on smartphones, GPS incurs an unacceptable energy cost that can cause the complete battery drain within a few hours. Although GPS is often preferred over its alternatives, the coverage areas of GPS are still limited (GPS typically cannot function indoors). To this end, our goal in this paper is to improve the energy-efficiency of traditional location tracking service as well as to expand its coverage areas. In this paper, we introduce Sense and track, a location tracking service that leverages the sensor hints on the smartphone to reduce the usage of GPS. Sens Track selectively executes a GPS sampling using the information from the acceleration and orientation sensors and switches to the alternate location sensing method based on WiFi when users move indoors. A machine learning technique, Gaussian process regression, is then employed to reconstruct the trajectory from the recorded location samples. We implemented a prototype on an Android smartphone that can sample the related sensors during the user's movement and collect the sensor data for further processing on PCs. Evaluation on traces from real users demonstrates that Sens Track can significantly reduce the usage of GPS and still achieve a high tracking accuracy. The core enabler of most location tracking applications on smartphones, GPS incurs an unacceptable energy cost that can cause the complete battery drain within a few hours. An Android smartphone that can sample the related sensors during the user's movement and collect the sensor data for further processing on PCs. The GPS are still limited (GPS typically cannot function indoors). To this end, to improve the energy-efficiency of traditional location tracking services. Location based applications still cannot assume continuous and ubiquitous location access

in their design because of the high energy expense for localization.

- 7) Sourav Bhattacharya, Henrik Blunck, Mikkel BaunKjærgaard, and Petteri Nurmi in the year 2013 explains about the Mobile location-aware applications require the sampling of trajectory data accurately over an extended period of time. However, continuous trajectory tracking poses new challenges to the overall battery life of the device, and thus novel energy-efficient sensor management strategies are necessary for improving the lifetime of such applications. Additionally, such sensor management strategies are required to provide a high and application-adjustable level of robustness regardless of the user's transportation mode. In this article, we extend and further analyze the sensor management strategies of the End-Tracked system that intelligently determines when to sample different on-device sensors (e.g., accelerometer, compass and GPS) for trajectory tracking. Specifically, we propose the concept of situational bounding to improve and parameterize the robustness of sensor management strategies for trajectory tracking. We demonstrate the effectiveness of our proposed approach by performing a series of emulation experiments on real world datasets collected from different modes of transportation (including walking, running, biking and commuting by car) on mobile devices from two different platforms. Thorough experimental analyses indicate that our system can save significant amounts of battery power compared to the state-of-the-art position tracking system. Applications provide trajectory and/or position error thresholds for tracking based on their requirements. The position of the target cannot anymore be ensured to be within a certain error threshold (or distance) E-Position from the previous estimate. Optimizing energy-efficiency alone, however, is not sufficient for tracking applications as they usually require also guarantees on the robustness of tracking.
- 8) IonutConstandache, Romit Roy Choudhury and Injong Rhee in the year 2014 described about the idea is not fundamentally different from ship or air navigation systems, known for centuries. Nonetheless, directly applying the idea to human-scale environments is non-trivial. Noisy phone sensors and complicated human movements present practical research challenges. We cope with these challenges by recording a person's walking patterns, and matching it against possible path signatures generated from a local electronic map. Electronic maps enable greater coverage, while eliminating the reliance on Wi-Fi infrastructure and expensive war-driving. Measurements on Nokia phones and evaluation with real users confirm the anticipated benefits. Readings can produce a directional trail that is matched against walkable path segments within a local area map. Using only infrequent Assisted-GPS (AGPS) readings, the phone can periodically recalibrate its location, and use it as a reference for subsequent position estimation. Skyhook targets urban regions near roads and streets, CompAcc is focused on areas not close to drivable roads or devoid of WiFi infrastructure. Direction change is possible not only at path

intersections, but also at the end of linear segment in a polyline.

- 9) Moustafa Youssef, Mohamed Amir Yosef, Mohamed El-Derini in the year 2010 describes about the constrained battery on cell phones, energy-efficient localization becomes an important challenge. In this paper we introduce a low-energy calibration free localization scheme based on the available internal sensors in many of today's phones. We start by energy profiling the different sensors that can be used for localization. Based on that, we propose GAC: a hybrid GPS/accelerometer/compass scheme that depends mainly on using the low-energy accelerometer and compass sensors and uses the GPS infrequently for synchronization. We implemented our system on Android-enabled cell phones and evaluated it in both highways and intra-city driving environments. Our results show that the proposed hybrid scheme has an exponential saving in energy, with a linear loss in accuracy compared to the GPS accuracy. We also evaluate the effect of the different parameters on the energy-accuracy trade-off. One of the main drawbacks of GPS is that it is an energy-hungry device that can drain the battery of the phone in a few hours. Sensors that can be used for localization available on the HTC Dream Android-based phone namely: the GPS, accelerometer, and compass. The current drained is not proportional to the data rate. We choose to use the Normal data rate as it fits our need and consumes the least amount of power. The accelerometer chip power consumption is not a linear function of the data rate.
- 10) Radhika Loomba, Lei Shiy, Brendan Jennings in the year 2010 explained about these applications rely heavily on mobile devices, present in locations of interest, to offload raw or processed sensor data in order to accurately capture, recognize and classify the surrounding real-time context. However, continuous sensing and offloading of large volumes of mainly redundant sensor data significantly impacts energy constrained mobile devices. This results in a trade-off between sensing accuracy and the energy consumed by these devices. We propose the use of application-specific state machines that encode the context of interest to determine when sensed data should be offloaded to the cloud. Our control algorithm, 'Assisted-Aggregation' applies frequent pattern mining to reduce the number of active devices by sharing sensed data between multiple applications. Our evaluation shows an improvement in terms of the residual energy of the mobile devices, the number of devices actively offloading and the volume of the offloaded data. Myriad of sensor information that can be collected using smartphones, wearables and other IoT devices greatly benefits context-aware applications. The use of application-specific state machines that encode the context of interest to determine when sensed data should be offloaded to the cloud. The sensed information present for any sensor does not vary much during a time interval and does not affect how we address the application requirements. These static sensors do not directly connect to the middleware and only interact with

the mobile devices present in the request location for security reasons.

III. SYSTEM DESIGN

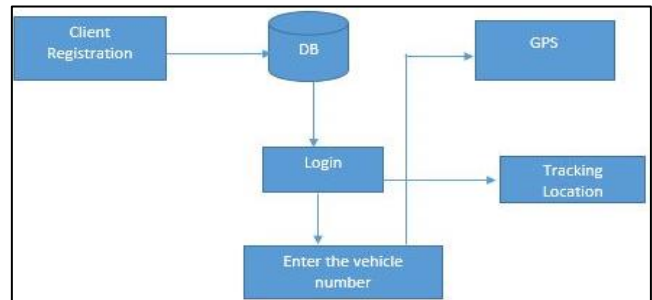


Fig. 1: System Design

IV. PROPOSED METHODOLOGY

A. Mobile Client

Mobile Client is an Android application which is created and installed in the User's Android Mobile Phone. The Application's First Page Consist of the User registration Process. The user login page is creating with the help of text field & button in the android mobile. While creating the Android Application, we have to design the page by dragging the tools like Button, Text field, and Radio Button. It get completed designing, by writing code for each. After creating the full mobile application, it will generated as Android Platform Kit (APK) file. This APK file will be installed in the User's Mobile Phone an Application. Using this APK user will be registering with the server by providing Authorized (parent) mobile number.

B. Server

The Server Application which is used to communicate with the Mobile Clients. The Server can communicate with their Mobile Client by GPRS and GPS. User will be initially registering with the server. Server will track the location.

C. Tracking Vehicle Number

In this module, if the location of vehicle varies it is been tracked through GPS which is directly associated with the sim card of authorized person through the mobile application The data is transferred to the parent mobile through gps where the data (location) of the particular child can be analyzed through mobile application .

D. Google Earth Initiations & Sms Alert

In the section if the location misplace then the location of the vehicle is traced by the GPS application in the mobile so that it update every movement of vehicle location and send the location value to the parent mobile. SMS alert the GPS location of the vehicle that is sent to the parent so that they can easily trace the location of the particular transport by the data of an SMS Alert.

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