



GPS Based Human Tracking

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► GPS Based Human Tracking

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ABSTRACT : There is a single central PC to which a mobile phone is connected via serial or USB port, F bus, or DATA cable. The person we want to monitor via mobile must have a GPS-enabled phone that runs on J2ME.

When a user clicks on a search button, an SMS is sent to the GPS mobile, and the GPS mobile sends an automatic response.. And that will be detected by the central computer, from which we will obtain the area's longitude and latitude.

This form of SMS is sent to that person's mobile phone on a regular basis from the central PC's mobile phone. Such texts are regularly sent, and the responses provide us with the current time, date, longitude, and latitude, which are then stored in a database. All of this database data is fed into the java script. calculates the person's position in the Google map using the longitude and latitude axis points

Keywords:

Thing speck cloud server and fritzing software Arduino UNO Ultimate Adafruit GPS (Global Positioning System) shield ESP2866 WiFi module Arduino IDE software (design circuit diagram)

I. INTRODUCTION:

Many cases of missing people in public places have been identified, and prompt identification is in high demand. This condition is often seen as a result of natural disasters such as earthquakes, tsunamis, and other natural disasters. Another situation in which people are constantly on the move, such as during the annual hajj season, when a large number of people travel in a group from one place to another, may lead to a tendency to go missing. a community of people that includes friends' spouses and siblings. Another famous daily newspaper storyline is the "getting a hold of one guy" scenario. This condition can be found all over the world.

Language / Tools that may be used:

Google Maps and a phone with GPS and J2ME support

ii.LITERATURE REVIEW



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iii.METHODOLOGY



Under open sky, GPS-enabled smartphones, for example, are normally accurate to within a 4.9 m (16 ft.) radius (view source at ION.org). However, near houses, bridges, and trees, their accuracy deteriorates. Dual-frequency receivers and/or augmentation devices are used by high-end users to improve GPS accuracy.

iv.Architecture diagrams

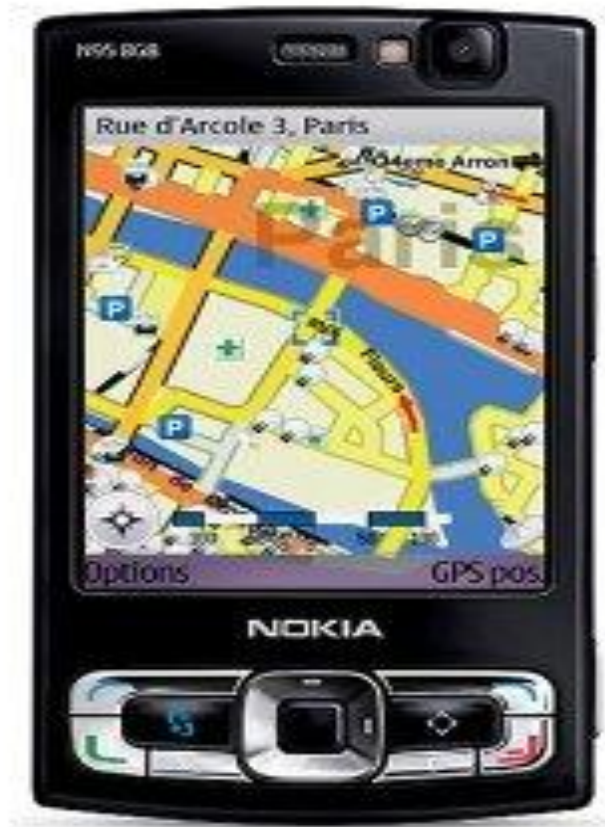
THE IMPROVEMENT OF GPS TECHNOLOGY ALLOWS GPS DEVICES TO BE USED NOT ONLY AS NAVIGATION AND ORIENTATION TOOLS, BUT ALSO AS INSTRUMENTS FOR CAPTURING TRAVELLED ROUTES: as sensors that track operation on a city or regional scale. In three European city centres, Norwich, Rouen, and Koblenz, TU Delft created a process and database architecture for collecting data on pedestrian movement., and in a one-week experiment in Almere (The Netherlands) to obtain activity data from 13 families. The research question in this paper is: what is the importance of GPS as a "sensor technology" for measuring people's activities? The conclusion is that GPS is a widely applicable tool for collecting useful spatial-temporal data on a variety of scales and in a variety of

environments, while also introducing new layers. While the application of GPS technology and the implementation of GPS devices has brought new awareness to urban studies, future research will face significant challenges.

V. System Implementation Technologies

- This gps-based human tracking system proposes a cost-effective method of tracking human movement by combining two technologies: GPR and GPS.
- The whole system allows users' mobility to be monitored using a monile phone that has an internal gps receiver and a gprs transmitter..

Architecture diagrams



Future scope:

System Implementation Technologies

- This gps-based human tracking system proposes a cost-effective method of tracking human movement by combining two technologies: GPR service and global positioning system.

The whole system allows users' mobility to be monitored using a single phone with an internal GPS receiver and a GPS transmitter.

Conclusion

- '' This paper describes our work on a normal gps-based human tracking system for a net project report, as well as blind person tracking in an inexoensive assisted living environment. We've seen how GPS data can be used to automatically update important locations. WE've also shown how to use a markovchain algorithm to integrate these locations into a predictive model of a user's movement. based on the difference in walking steps

References

Version 3 of the GPS Cycle Computer ".. 7 November 2008, Axivo Inc. This page was last updated on 22 April 2014.

"The Eriadne.org tracking system is completely free." On 9 January 2010, it was archived from the original. The date was 3 December 2010. "open-gpstracker is an open-source GPS tracker.

An Android GPS monitoring app that is both extensible and free ".. Retrieved on the 11th of October, 2009.

"Traccar Client" is a free, open-source Android tracker. "Budget Committee of the State Opposes GPS Monitoring Extension," retrieved 15 August 2012.

The Wisconsin State Journal is a publication dedicated to the state of Wisconsin. 14 January 2014, retrieved.