



# ANDROID PLATFORM USER LOCATION AND INFORMATION PACKAGE TRANSCIEVER

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## ABSTRACT

*We apprehend that humanoid software system with regard to mobile phones have captured Brobdingnagian space in market in nowadays date. Among several applications of transportable one application is to spot the situation wherever the user is and track that user by victimization technology among that device. Technology is GPS, GPRS, IMEI,IP. however the GPS would be best choice to trace. however whereas victimization humanoid system we've to submit our personal data to the appliance which might be harmful to our security. we all know that this method conjointly don't have alter info to store data that causes the matter of knowledge management and movableness. conjointly we tend to ar unable to create secure 2 means communications between internet server and humanoid internet application. And this humanoid Platform User Location and data Package Transciever (APULIPT) is planned for removing on top of mentioned issues. this method uses java as artificial language for developing user humanoid application, PHP artificial language as internet server developing language, external info for storing knowledge is of MySQL, JSON as intermediatery between user application and internet server. It conjointly uses cryptography whereas transmission of data between humanoid application and internet server.*

## 1. INTRODUCTION

Today's age is that the world of technologies, wherever uncountable inventions and discoveries have created everybody to suppose the employment of latest technology. wittingly or unwittingly we tend to ar taking the good thing about the technology. nowadays one will share data with others victimization the communication technology. One will apprehend what's happening in numerous components of the planet among a click. it's attainable owing to the event within the web services through that one will share the knowledge with the remainder of the planet. web has brought revolution within the field of communication. One will use web for varied functions relying upon the character of labor. however the most uses of the web in currently ar sharing of data. the most application of web is internet services wherever web plays a very important role. Another helpful development within the technology is that the mobile devices. the employment of mobile devices is increasing day by- day. several enhancements are created, like quicker processors and higher battery life, have enabled notebooks and smartphones to become powerful devices, giving United States of America the flexibility to fully modification the means we tend to work. Today's mobile devices not solely comes with the feature of speech communication and sending/receiving messages however conjointly has the options of web, Bluetooth, Image capturing, video, GPS facilities so on. varied good phones ar offered within the market, specifically Samsung, HTC, Motorola, Apple iPhone, Android, Blackberry product so on. Among them, humanoid has been gaining quality and its market share within the mobile software system market is apace increasing. in keeping with Gartner (2010) [1], humanoid is poised to become second worldwide mobile software system within the nearer future. victimization the technology – good phone and web, individuals ar sharing data to people however they're undecided if their data is firmly transmitted or not.

The main objective of this paper, on the very best level, is to speak with a PHP server that stores the knowledge sent through the humanoid device in encrypted kind and viceversa that finally establish a secure 2 means communication between humanoid device and internet server. the most highlight of our work is listed below:

- 1) Connect with the external info MySQL to take care of a centralized info. For achieving this goal, we'll use JSON as AN negotiator to send the info from humanoid device and PHP to insert that worth to the external info MySQL.
- 2) move with the webserver and maintaining security whereas sharing location and message. For achieving this goal, we'll use 2 approaches, {the information|the knowledge|the knowledge} sent by the humanoid application is initial hold on in an exceedingly info in encrypted kind victimization JSON and PHP as negotiator and decipher data whereas extracting from info. And similar method is followed whereas causing data from webserver to device. All ar encrypted whereas causing and key's required to decipher this data before reading from the info.

- 3) to search out the present location, trace the trail and track the individuals. For achieving this goal, current location is obtained from GPS enabled humanoid device and is shipped to webserver and webserver can show location position and path on the net victimization the.

## 2. BACKGROUND

This section presents the background atmosphere for location and message sharing system.

- A. GPS Technology world Positioning System (GPS) [2] may be a global navigation satellite system deployed by the United States of America Department of Defense and maintained by the United States of America Air Force. GPS may be a area based mostly radio navigation system that has correct location and temporal order services to anyone with a GPS receiver.
- B. Google humanoid The humanoid Platform may be a software package stack [3] for mobile devices together with AN software system, middleware and key applications. Developers will produce applications for the platform victimization the humanoid SDK. Applications ar written victimization the Java artificial language and run on Dalvik, acustom virtual machine designed for embedded use, that runs on prime of a Linux kernel. (Google, 2008) [4].
- C. PHP and MySQL PHP [5] (recursive descriptor for PHP machine-readable text Preprocessor) may be a widely-used open supply general scripting language that's particularly fitted to internet development and may be embedded into markup language. rather than uncountable commands to output HTML(as seen in C or Perl),PHP pages contain markup language with embedded code that will "something". The PHP code is clathrate in special begin and finish process directions that permit you to leap into and out of "PHP mode."MySQL [6] may be a computer database management system that runs as a server providing multi-user access to variety of databases. it's named when developer archangel Widenius'daughter, The MySQL phrase stands for Structured source language. MySQL may be a key a part of LAMP (Linux, Apache, MySQL, PHP / Perl / Python), the invasive open supply enterprise software package stack.

## 3. CONNECTED WORKS

The varied researches are done and ar happening Location based mostly project and within the same magnitude relation various Applications are developed on location-based and Message sharing system. the assorted locating technology as represented in [10] ar Summarized as follows:

- 1) **GPS:** It locates a user through a tool that's in Communication with a constellation of satellites.
- 2) **Wireless Position:** It locates a user victimization each non-public and public local area network access purpose, users is mapped in keeping with the situation of those access purpose.
- 3) **Cellular Identification:** It locates victimization cellular knowledge of mobile phones.
- 4) **IP Location:** It locates users victimization the IP address of the web network. Among the assorted location technologies, GPS is that the most and correct thanks to find user. It locates a user through a tool that has GPS practicality like transportable. varied location sharing applications is gaining quality owing to the expansion of the GPS equipped smartphones. With the emergence of the GPS capable Mobile, users began to write alittle application passing Location knowledge to a central server to create their location offered to alternative users [11, 12]. Chandra A, Jain S, Qadeer M A [13], has planned a location sharing system supported GPS and GPRS victimization J2ME, PHP and MySQL which supplies the user's current Location, send this location victimization SMS and think about them on Google map. however the applications they need planned has Implementation drawback, accuracy drawback, has no Centralized info similarly as some security issue and don't have any 2 means communication between webserver and device. As represented in [14], the works ar principally targeted on a way to handle the situation, a way to show google map on humanoid devices and eventually concerning categories and functions used for location services. the situation based mostly service as in [15], has outlined 2 parts: shopper and server. shopper facet is developed supported technique: Mobile SVG based mostly JSR226 and JSR179 specification, map slicing, map layering and J2ME. Server facet is developed victimization XML, J2EE and MySQL. This platform provides services of map phase querying, shortest path to destination question by Dijkstra formula, route question and route navigates. As represented in [16], they need planned a GPS navigation system which is able to facilitate to trace the friend position, read scenic spots from good phones so on.

## 4. STYLE AND OPERATION

This section describes the system design, operating principles of the system and varied functions used whereas coming up with the system. design of APULIPT describes the whole method of our system containing login, client, ALMMS, internet server and info that is holding our user's complete data of location and transmitted data.



## 5. EXPERIMENTAL RESULTS

The software system for good phone is humanoid a pair of.2. Programming languages are Java (version: 1.6.0\_25) and PHP (version 5.2.8). MySQL (5.1.30) is employed because the info. we've used Eclipse (version: Greek deity Service unleash 2) as a Java Development Tool in Windows, Macromedia Dreamweaver (version: 8) for PHP programming. we tend to initial used AN humanoid aper to run shopper application and native server as webserver for conducting AN experiment. to get the latitude and meridian, we tend to use `getLatitude` and `getLongitude` functions severally along side the options of `LocationManager` and `LocationProvider` categories. when getting the situation values, these values were send to info in encrypted kind. And providing the acceptable decipherment key, location is displayed on google map in internet. we tend to use `HttpPost` to attach to the webserver and humanoid aper, `JSONObject` to line the worth to send to webserver, `HttpClient` to send data set by `JSONObject`, `ResponseHandler` to handle the response from the server, `StringEntity` to convert `JSONObject` variable to string before causing to server. In server facet, we tend to use `file_get_contents` to receive worth from shopper and `json_decode` to decipher the receive worth. To receive the knowledge sent from server to shopper, we tend to use `HttpEntity` to handle the response from the server, `HttpResponse` to execute `HttpPost`, `JSONArray` settle for encoded data from the server. In server facet we tend to use `json_encode` to cypher worth before causing to shopper. In between the method of causing and receiving knowledge we tend to use stellate cryptography technique [9] within the server facet to make sure the protection of data. All the knowledge within the info is hold on in encrypted kind. and data is decrypted whereas making an attempt to browse the info from info. when the winning testing within the aper and native server, we tend to used real humanoid good phone HTC want G7 with humanoid Version a pair of.2 and on-line webserver.

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