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Mall and Hospital Finder Using GPS Location Tracking Management.

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ABSTRACT

Mall & Hospital Finder Using GPS Location Tracking Management aims at improving the distance-based location management scheme for android application. It is applied only on positive weights. In earlier case we used Search meets Graph algorithm to get the location of places. Here we will be using MF Algorithm. The Global Positioning System is used and the position parameter is added in the Mall Finder Using GPS Location Tracking Management, from this the current position is retrieved at any point. By using this current position, the distance can be determined from one node to another node.

Keywords: *GPS, Tracking, Map, Resultant Detail Description.*

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INTRODUCTION

Current search engines fail to utilize one important aspect of the location of the user due to two fundamental motivations. Firstly, the area location of the user was not available because now days GPS phones are less frequently used. Secondly, the information in web is rarely attached with the location for which it would be relevant. Present an elective result alluded to Similarly as area. location based search engine based on the ideas in with the following useful results. For a provided for area (e. G. Starting with GPS),.we perform location-restricted based web query, analyze the web-pages found one by one(relevant by keyword), extract potential address information and compare them with the entries present in a gazetteer .Positive results are presented according to their distance relative to the user's location and plotting the target position on the map or giving navigational information to the location.

Related works

Ian F. Akyildiz , Wenye Wang: This paper tells us that a mobility tracking mechanism that combines a movement-based location update Arrangement for a particular paging plan. Movement-based area update is used for its simplicity. It does not require a mobile terminal to store information regarding the arrangement and the distance relationship.

Ian F. Akyildiz: In this Paper, An location-tracking instrument will be acquainted that consists of intersystem location updates and a intersystem paging. Intersystem overhaul will be actualized Eventually Tom's perusing utilizing the idea of boundary location area, that is determined by using a Progressive area upgrade approach for which those speed and the nature from claiming administration would made under account for a per-user basis.

Andrew V. Goldberg: In this they propose the shortest way calculations that utilize A* scan done blending with an new graph-theoretic lower-bounding technique that is based on landmarks and the triangle inequality. These algorithms Figure ideal most brief ways and worth of effort once whatever guided graph given. They give experimental results showing that the most efficient of their new algorithms outperforms previous algorithms.

Ben Liang: In this Concept, a mobile's future area may be predicted Eventually Tom's perusing the network, dependent upon the data gathered from the mobile's recent report of location and velocity. When a call is made, the network

SCOPE OF THIS PROJECT

In this project allow to search malls around Chennai and gives the shop list, Shop details within those malls and details about hospitals . Calculates distance from the users position to the mall by calculating the distance from user's current location. It also gives the information about the nearby hospitals present and their information.

PROBLEM STATEMENT

Location of data must be explicitly coded in the application. These are usually information such as hotel directors, restaurants lists or similar common services.

EXISTING SYSTEM

Location of data must be explicitly coded in the database. The Existing System uses Search Meets Graph Algorithm. Algorithms compute optimal shortest paths and work on any directed graph.

PROPOSED SYSTEM

This System is to find the current position of user and allows to search malls around localized area , shop list and Shop details within those malls & hospitals and doctors details. In this module ,it shows the

internal structure of the mall and what kind of stores are available and its name is demonstrated to the client. It also provides for the majority of the data. about nearby Hospitals and their respective details.

MODULES

- Login/Registration
- Database Creation
- User Interface Design
- Find current position
- Searching mall
- Find the store inside the malls

MODULES DESCRIPTION:

Login & Registration.

In this module we design to develop login and signup screen. Using Android xml to develop classical screens in our application. The modules describes signup page containing email id or user name, the individuals sort of subtle elements ought to be stored in database. Login screen contains email id or username and password and when the user uses it to login the information should be retrieved from the database.

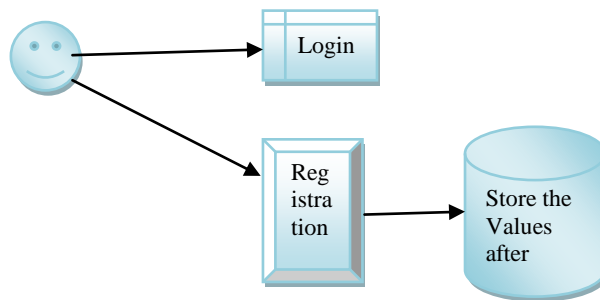


Figure 1: Dataflow of Login & Registration

Database Creation

User email id or user name and password has been stored after registration. Android uses SQLite Database for storing and fetching user application details

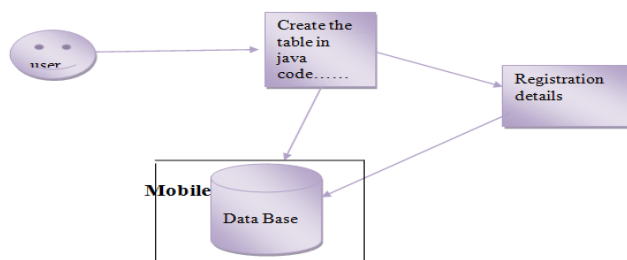


Figure 2: Dataflow of Database Creation

Find current position

This module is used to find current position of the user. We will create an Android application which will display current location in Google map using Google Map Android API V2. Google map is integrated with the Google play service, so we need to set up Google play service library for developing Google map

application. Here Google map will show using latitude and longitude without network connection like using GPS system.

Searching mall

This module is used to display nearby malls and hospitals in user’s current position. Google map with help of network connection or GPS system finds the nearby malls and hospitals near the user. Its fully integrated in Google play services. Here maps show the mall with mark and its name of the mall.

Find the store inside the mall

This module is used to show the internal structure of mall and what kind of store And shopping shops What's more its sake show of the client. That kind of thing will be displayed in the map. Here attached advanced technology to show your current position and your targeted position between exactly to show how much of kilometer or meter. It also shows nearby hospitals located near the user.

MF ALGORITHM

In the distance-based scheme, the location update is triggered by two possible events: (i) the boundary crossing due to the MT’s movement, or (ii) the call arrival towards the MT. According to the location update mechanism, we now express $T=T(X, \Omega, \lambda, k)$.

Let $\tau \triangleq \tau(X, \Omega, k)$ denote the first exit time that the MT first hits or crosses the boundary $\partial\Omega$. Then $\tau(X, \Omega, k)$ is given by

$$\tau(X, \Omega, k) = \inf \{t \geq 0: Y(0) = X \text{ and } Y(t) \notin \Omega\}. \quad (19)$$

Let ζ be the call arrival interval with parameter λ . Then, the mean location update interval is equal to the mean of the minimum of the call arrival interval and the first exit time, i.e.,

$$T(X, \Omega, \lambda, k) = E(\min\{\zeta, \tau(X, \Omega, k)\}) \quad (20)$$

Since ζ is independent of τ , we have

$$T = E(\min(\tau, \zeta)) \quad (21)$$

$$= \int_0^\infty P(\min(\tau, \zeta) \geq t) dt = \int_0^\infty P(\tau \geq t) P(\zeta \geq t) dt$$

Let $G(X, t) = P(\tau(X, \Omega, k) \geq t)$ and $G \triangleq G(X, t)$. If ζ is an exponential random variable, (21) is rewritten as

$$T = \int_0^\infty e^{-\lambda t} P(\tau \geq t) dt = \int_0^\infty e^{-\lambda t} G(X, t) dt \quad (22)$$

and we have

$$\int_0^\infty e^{-\lambda t} \partial_t G dt = -1 + \lambda T \quad (23)$$

SCREENSHOTS

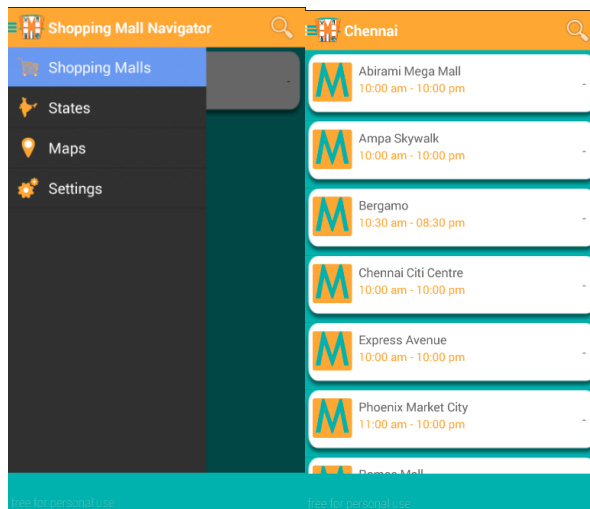


Figure 3: Snapshot of Home screen

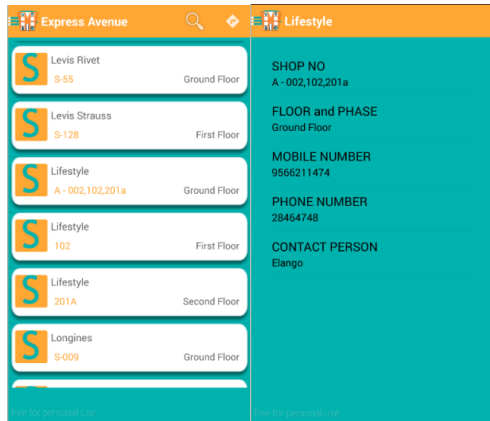


Figure 4 : Snapshot of List of search resultant



Figure 5 : Snapshot of Map view

ARCHITECTURE

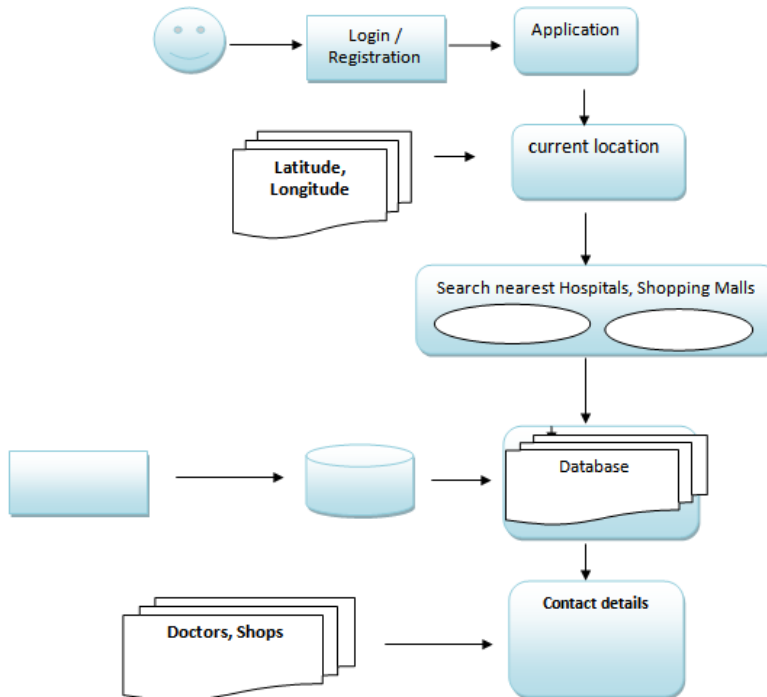


Figure 6 : Architecture



FUTURE ENHANCEMENT

For future work, we plan to allow to search malls around world cities and shop list Shop details within those malls. Calculates distance & give you direction guide to the mall or Hospital from your current location and also includes online shopping. It also allows users to update their health records in the database.

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