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Analysis & Locating Branded and Generic Medicine Using GPS Navigation System

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ABSTRACT: Our proposed system will show all the details about the medical stores and medicines as per the user requirement. The real time location of user is tracked by using GPS (Global Positioning System). Our real-time tracking management system consists of three components, a GPS Tracking Device, a server and a database. The GPS tracking is done by GPS enabled android mobile that transmits the location to the server through the GPRS. Through this application user comes to know the name and availability of generic medicines in different chemist stores. Dijkstra's algorithm is used to find the nearest medical stores according to the location. On the other hand Data mining classification algorithm is used to give the generic medicine availability on behalf of branded medicine.

I. INTRODUCTION

This Project is totally based on the availability of the medicines like Branded medicine and Generic medicine. The customer or user will login the application and after that he or she will select the particular location to find out a medical store and different types of medicines which is not available in each and every store as per the location entry the application will show and give the information about medical stores and medicines.

If the user doesn't know about the place or you can say that user is unaware about the location so that application has a module of GPS location tracking that module uses to find out user location. The GPS will easily find out the customer location and as per the entered location the details of medical stores and medicines will be displayed. The system will also display the generic medicines as per the entered brand medicine name because the brand medicine and generic medicines having same formula.

II. RELATED WORK

We referred some paper and the short description of a paper is as below:

The real time location of the vehicle on the Google Map by using GPS & GCM (Google Cloud Messaging).

The existing system of vehicle tracking uses the tracking of the travelling device by using GPS and web server for showing the location on the Google Map whereas, our proposed system will show all the details about the medical stores and medicines as per the user requirement.

Our system which is tracking management is based on different components, a GPS Tracking Device, a server and a database, GCM & Client application. The tracking is done by GPS activated android mobile that transmits the location to the server through the GPRS.

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III. PROPOSED METHODOLOGY & DISCUSSION

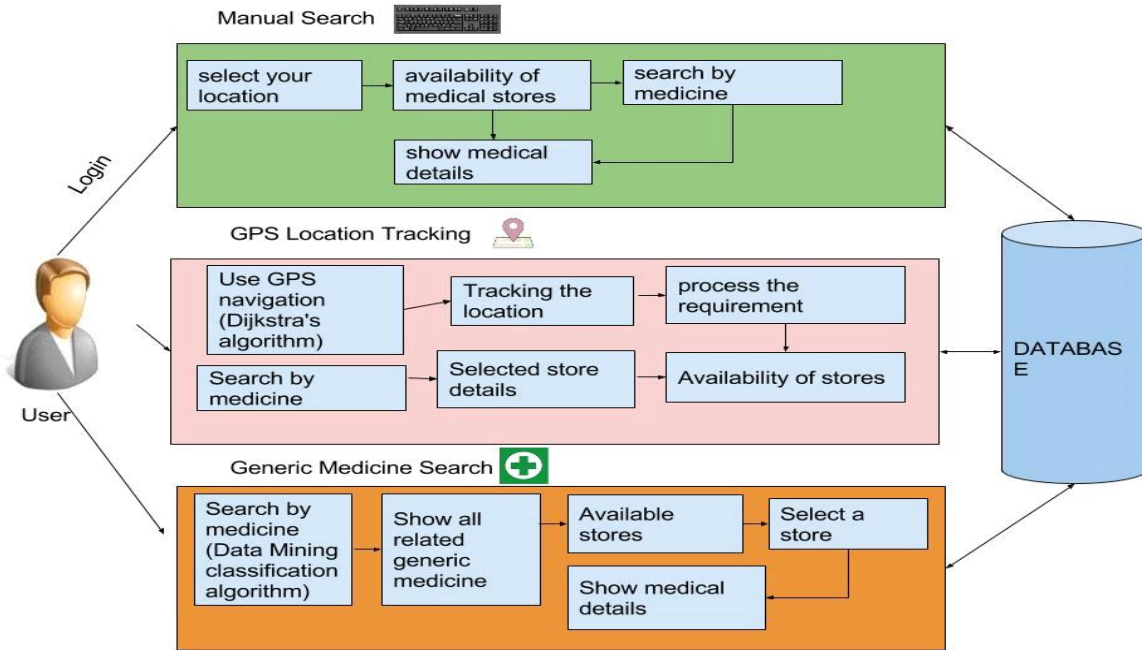


Fig1: System Architecture

A) Architectural Description

This system architecture involves three various components:-

- Manual search
- GPS search
- Generic medicines search

1) MANUAL SEARCH:

The customer or user will log in the application and select the particular location to find out the medical stores. The user will enter the medicine name and check whether the medicine are available in that medical store or not. If the medicine available in a particular store then show the medical details like address and contact. If customer only wants a medical store details then the application directly show the details of medical store to the user without searching about medicines.

2) GPS Location Tracking:

If the user is unaware about the location or the user is just a visitor or we can say tourist who is unaware about the location then the application will find the location using GPS navigation system. The user only select a GPS module that module automatically track the location of the customer and store the location into the system database and as per



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the location the application gives the information of medical stores and also the medicines, medical stores like address and contact.

3) Availability Of Generic Medicines:

If a customer searching any branded medicine so that the database will also display the generics which is available in a market same formula like branded medicines because sometime user doesn't have much money or user is in any kind of emergency so that at that time the application will be useful for finding generic medicines. This module will also be based on manual search as well as GPS search the main aim to including this module is to make the availability of generic medicines easy because people are very much familiar with branded medicines but not generic medicines, and the generic medicine is coming at low cost as compared to branded medicines that's why this concept will be useful.

IV. IMPLEMENTATION

The proposed system is the vital information regarding medical stores can be easily found by the customer or visitor on the front-end. The interface will display all the required information which is easy to use. A friendly interface will be easy for user to use. The data which is collected is used in a backend database (offline or tele-based) for providing details of medical stores and medicines details. No need for searching medical stores and medicine because the application will easily display the details of medical stores as per the entered location. The user who already has logged in the application will give the information on GPS based also manual based search.

V. CONCLUSION AND FUTURE WORK

User can easily find out the medicine as well as medical store nearby in emergency, If the customer or user not have that much money to buy a brand medicine so he or she can easily find out the generic medicine which is low in a cost and same formula like brand medicine, If the customer is unaware about the location then the GPS system will easily track the location and as per the location the app will show the required output.

The app can display the price of given medicine, The app can track the location of hospital or it show any hospitals chemist on GUI. App show the number of stocks available of the given medicine. The stock are depend on chemist owner so due to some reason if user didn't get the medicine on the shown medicine store then the app shows the terms and policy.

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BIOGRAPHY

Mr.Shafiqurrahman Shaikh, Sadiya Wagho, Samreen Shaikh, Ubaid Mukati and Sufiyan Tamboli are student in the Computer Engineering Department, Anjuma-I-Islam's Kalsekar Technical Campus, School of Engineering & Technology in fourth year . This project is under the guidance of Prof. Sameer Panwala , college guide has also done his masters in Computer Engineering.