

Implementation of Android Based Medicine and Medical Product Searching System

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ABSTRACT

Data and Communication Technologies are generally utilizing medicinal services associations around the world. The Android working framework based electronic gadgets, for example, Smartphones and PC tablets are broadly utilized for some, reasons like texting, gaming, word preparation, Internet and download number of utilizations on the web. A quick development of android telephones has empowered to supplant PC's product and other authorized programming advancement innovations. There are various types of human services applications created in android Smartphones which help patients and their parental figures to lessen time and cost proficiency. Right now, application is built up that finds the closest clinical shop with the ideal clinical or product required. The closest situation of medical clinics is determined with an inherent component of the Global Positioning System (GPS) in Smartphones and finds the course from their present area through Google Map application Program Interfaces (API). With the assistance of this application, a client can discover the closest shop or clinical pharmacy to get the ideal product or medicine.

Keywords : Healthcare, Pharmacy, Prescription, Android, Online Medicine Shopping

I. INTRODUCTION

The most recent Smartphones made emotional achievements in handling power, higher arbitrary access memory, and optional stockpiling alongside the number of additional highlights like we get to have opened ways to an expansive scope of utilizations improvement. An Android working framework (AOS) normally utilized by Smartphone makes since it is an open-source working framework dependent on the Linux bit and structured essentially for contact screen cell phones, for example, Smartphones and tablet PCs. The inward equipment of Smartphones particularly sensors like closeness, accelerometer and spinner

sensors are utilized by certain applications to react to extra client activities.

There are various (applications) classes accessible for download from the online Google play store. Ordinary a large number of new applications are transferred in their online database. Various applications identified with social insurance are accessible in the clinical classification which is useful in the analysis of fundamental sign parameters, immunizations plan, medicine update and so on. These sorts of utilizations are lies in portable wellbeing (m-wellbeing) innovation. A few applications decide the area of wellbeing facilities, human services communities and

city medical clinics. Search the closest clinic with the strength in the city of Karachi is one of a kind thought of this application. Valid and state-of-the-art data are accessible about every medical clinic and specialist.

This Product is an online medicine search application. This application permits a guest to scan for medicine and addresses of clinical stores where the medicine is accessible. This application is an answer. Thus, this web application is intended to create dependent on the necessities of the customer.

The customer is a little scope pharmaceutical organization that is dispersing conventional medicines to crisis medicines and having a decent system of clinical (retail locations. The principle need of the customer is to set up an online application to help the poor individuals in finding the accessibility of the medicine and a rundown of clinical stores where the medicine is accessible. The guest can rapidly discover the closest clinical store by choosing the territory in the hunt devices.

This application likewise gives a login record to an enrolled clinical store. Utilizing this record an individual from the clinical store can refresh the rundown of medicines and their stock every day insightful. This abstains from giving obsolete information to the guest. The following is the foundation data about picking the AOS stage for this application.

II. Related Work

A. Android Devices

By and large, AOS gadgets are accessible with a merger of open source programming and restrictive programming however with AOS source code discharged by Google Inc. under the open source licenses understanding. Initially AOS was created by Android Inc. in October 2003 that Google bolstered

monetarily and later bought it in 2005. Android was uncovered in 2007 related to the establishing of the Open Handset Alliance; a relationship of equipment, programming and media transmission organizations committed to direct open norms for Smartphone and other cell gadgets.

Android is mainstream in a wide range of specialized fields that require an easy to understand, minimal effort and adaptable programming or applications for cutting edge gadgets. Because of Android open source style, it supported programming engineers worldwide and gave them to utilize the Android stage as a base for Smartphones and PC tablets related tasks that include new highlights for cutting edge clients. The other working framework's designers are likewise making their venture in AOS for android gadgets to make more progress. This sort of achievement made an objective for patent case as a major aspect of Smartphone wars between innovation producers.

AOS based gadgets discover more customer requests similarly to Microsoft Windows, Apple iOS and Mac OS X gadgets consolidated in most recent three years. Starting at July 2013 the Google Play store has had more than one million android applications distributed and more than fifty billion times applications downloaded. An engineer review has been directed in April–May 2013 where 71% of applications designers create for Android gadgets. In 2014, Google Inc. unveiled that there were more than one billion Android clients that have been dynamic for a month, up from 538 million in June 2013.

B. GPS in Smartphone

Worldwide Positioning System (GPS) empowered route in gadgets that correctly decides topographical area by accepting GPS co-ordinates data from the GPS satellites. Initially, it was just utilized by the United States military, yet later this administration is accessible unreservedly worldwide and now most

beneficiaries are incorporated into Smartphones, PC tablets, planes, GPS beacons and cars. At present, individuals feel progressively helpful to simply utilize their Smartphone worked in GPS as route apparatuses rather than a different GPS gadget. Smartphone route regularly gets free and quick programmed refreshes as contrast and business GPS gadgets. Likewise GPS is generally utilized for following the youngsters and maturing individuals experiencing dementia and Alzheimer's ailments.

C. Google Map APIs

Google Maps are usually used to decide the goal area, ascertain remove and inexact time to arrive at a goal point from your present area. Fundamentally, Google Maps have a broad exhibit of utilization program interfaces (APIs) that let you implant the incredible usefulness and adequacy of Google Maps into your Smartphone applications. Google gives by methods for Google play a library for utilizing Google Maps into Smartphones application. At present, Google Maps Android API V2 are accessible that gives upgrades to the more established API adaptation.

The Google Map library gives the `com.google.android.gms.maps.MapFragment` class and the `MapView` class for showing the guide part. To get to the Google Maps servers through the Maps API we need to add a Maps API key to Smartphone application. The key is free and can be utilized with any application that calls the Maps API, and it underpins numerous clients. Maps API key can be accomplished from the Google APIs Console by giving use of marking declaration and its bundle name. The key is remembered for the application by including a component `AndroidManifest.xml` record.

III. Motivation

Even in today's world where we have extensive existence of technology everywhere, there are few things which need a specific focus. We do have online

pharmacy, Online Medical equipment seller who give us the door step service. It will take minimum of 24 hours to deliver the product. In case of emergency, if we need to find the medicine or medical equipment's, we need to search it manually, which is a time consuming Task. We propose to overcome this issue in our proposed system "MediSearch". The System aims to achieve the following goal:

- To develop a module for shop owner for maintain the inventory.
- To make available the inventory of all the connected shops for searching.
- To develop an android app for users, where they can search the medicine/medical equipment's.
- To locate the shop using GPS.
- To provide the result in sorted order, based on shortest distance from current location.

IV. Implementation Details

The proposed application will help the user to search and view all his pharmacy and shops for medical products anywhere in anyplace of the world through online. The proposed system gives a convenient and time saving solution for the existing system. It provides the facility to search all the nearby pharmacy and shop information in one place and also it provide the availability of the medicine/product in that shop, and also the application is so powerful that it can easily able to find your current location and then rout you to the selected shop without putting any extra effort. Global Positioning System (GPS) enabled navigation in devices that precisely determines geographical location by receiving GPS co-ordinates information from the GPS satellites. This service is available worldwide and now most receivers are integrated into smartphones, PC tablets, airplanes, tracking devices and automobiles. At present, people feel more convenient to just use their Smartphone built-in GPS as navigation tools instead of a separate GPS device. Smartphone navigation typically gets free and speedy

automatic updates as compare with commercial GPS devices.

This system is one of the best life savior application as this system will help to solve all the medical related issues from the smartphone only. All the details related to almost every medicine will be available in this system. Whenever the user search for a medicine shop nearby to his place, then this system will help the user to find the shop as soon as possible.

This research work was conducted in two steps. The first step was an inventory and billing system for the shops and it is implemented to gather the latest information about availability of product or medicine in the shop. The second step was to implement an application for android Smartphones, so that it will be available to all android users. Figure 1 shows the flowchart of the whole project.

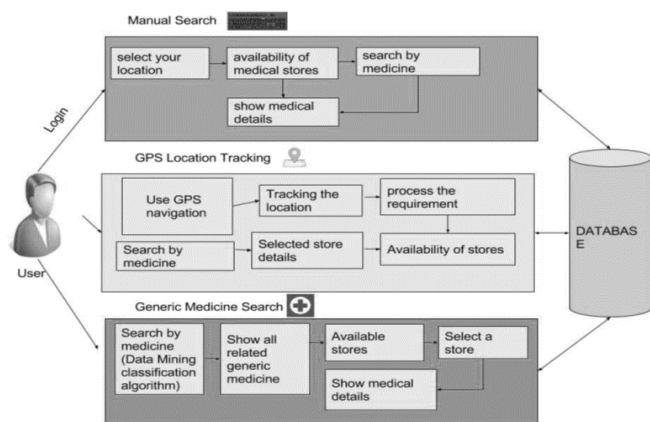


Figure 1. System Architecture

V. Conclusion and Future Scope

The research work presented in this involves new service based design approach for implementing two of the popular consumer applications on Android system. One of them is utility search places application for medicine, and second is the web based system for inventory and bill management system for the shops. This study makes a basic and up-to-date medical category application is designed to help the patients

and users to determine the nearest pharmacy with a specific medicine or product. The shop names along with their address and route are determined by Smartphone GPS receiver over Google Map Service. With the help of Google Map, the distance and route to each of the shop is calculated for the user. This application is greatly useful in emergency cases as well as for the non-resident person of the city.

The future scope of this application is to develop and determine the availability of specialist doctor on a real-time basis near patient's location. This development will also give an opportunity to book online appointment which facilitates the patients by saving the time propose prototype implementation of home automation system that uses Wi-Fi technology and android OS.

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