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MedSearch- Smart Search of Medicines

*S.Naganandhini[*1], Deepalakshmi P[1], Poornima Devi G M[1], Priyadharshni V[1], Ramya Bala B[1]*

[1] Students - Department of Computer Science Engineering

*[*1] Associate Professor, Department of Computer Science Engineering*

PSNA College of Engineering and Technology, Dindigul - 624005, Tamil Nadu, India

Abstract - *Every person takes medicine in many form now a days. In many cases some medicines are not available in pharmacy, which leads people to spend lots of time manually searching for it in different medical shops. In the meantime, the patient's health might deteriorate. Thus, a mobile application, that helps in finding medical shops that have the desired medicine, will be useful in times of emergency. The database for the available medicines in the pharmacy will be periodically updated and managed. So, the people can reach out to the medical shop if they have the necessary medicine in stock. Hence, we design an android application that searches the medical shops in the city for the given medicine by the user, shows the description of the medicine so that the user can order it.*

I. INTRODUCTION

Every citizen of the country visits a doctor or hospital in his lifetime for different health-related reasons. In order to, treat the patient doctor prescribes drug which may be generic or unique which is purchased from a medical shop. It is often seen that patient has to visit several medical shops to fetch the prescribed medicine, as he is unaware of different options for a drug available to him. Therefore, an application can be developed wherein, the prescription from a doctor/hospital is digitalized and directly transferred to patient or caretaker, who may have an app to access the options and availability of the drug in the vicinity. This may require linking all brand names for a drug in a database which may be available to the doctor and the user.

II. MODULES

- **Admin**

MedSearch is developed using PHP and Android. The server-side application is developed using PHP a popular web scripting language. The back end is maintained on MySQL a popular RDBMS. The client-side application is developed using Android a popular mobile application platform. So, this application reaches every one easily.

- **New product**

The admin adds new product and can remove unwanted products. It contains name, brand, and description like Calpol, Ranbaxy, etc.… The added medicines are displayed in the view medicines screen. Unwanted medicine products can

be removed from the system. After the administrator adds the medicines, the added medicines are available in the site for both the medical shop and the clients. Later in the medical shop login, they can update the stock and price of the medicine.

- **View shop**

In this module, the admin can view the registered shops from the mobile app. The shops can be register from the application and the information is stored in the web. The medical shop owners can be displayed in this module. The administrator can remove the unwanted medical shops. The medical shop owners can register their information like name, address, mobile etc… from the mobile application.

- **Update Stock**

The shop owner can update the stock of the products he/she has. Moreover he/she can update the price of the medicines. Then the users can view the medicines available within the same vicinity. If no stock is available, then the shop is not shown in the search. After the medical shop owner login, the application, the medicine products are shown. Then the medical shop owner can select the available medicines in the shop and can update the stock and price.

- **View Request**

In this module, the shop owner can view the product request from the user. Then he/she can accept and complete the request after communicating with the corresponding user. The request comes from the user mobile application. Then the medical shop owner can know the details such as address, mobile of the user who sent the request.

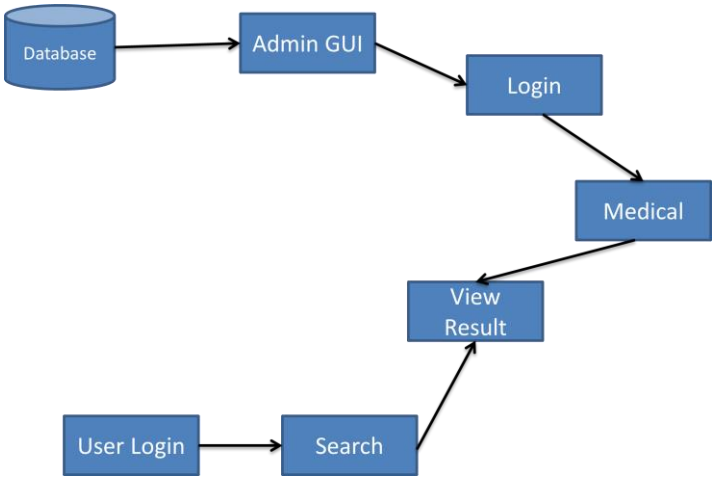
- **User Login**

User can freely register with the site and can login. The user gives information like name, address, city, mobile number etc… Then after successful registration, the user can login the application.

- **Search Product**

The user can select the category of product and can type the name of the product. The shops available in the area with the stock is shown to the user. Then the user can send a request. The request is then processed by the shop owner

III. ARCHITECTURE



Functional Architecture Diagram for MedSearch

IV. RELATED WORKS

- **Mechanisms for notification and surveillance of disease outbreaks**

The outbreak reporting mechanism was established with the Health Outbreak Law of 1969, and Ministerial Decree No. 949/2004. Following reports of an increase of certain disease cases or symptoms, an investigation team will review the epidemiologic trend and produce a plan of action to curb the outbreak within 24 hours. The MoH conducts surveillance for vaccine-preventable diseases (acute flaccid paralysis/polio, measles, diphtheria and TB), HIV and AI. The MoH has also implemented an early detection tool, the early warning and response system (EWARS), which is part of the surveillance programme. The data for EWARS are collected from the local area monitoring system (PWS) that collects data from health providers at puskesmas level.

- **Mechanisms for surveillance of the population's health and well-being**

There are several health-related surveys in Indonesia. The Indonesian Health and Demographic Survey has been conducted every five years since 1987. This survey is organized by the Central Statistics Bureau in collaboration with the National Family Planning Coordinating Board and the MoH. The latest survey was conducted in 2012 to collect data on demography, birth rate, death rate, family planning and the health of the Indonesian people over the preceding five-year period. The 2012 HDS covered 1840 census blocks in rural and urban areas, for a total of 46 000 households.

V. EXISTING SYSTEM

There are certain features limiting the process of the present system. In the existing system all processing are done manually. Voluminous registers are maintained in which all information is stored. It suffers from the serious raw backs including the medicines task involved every time during the shops, inaccuracy arising out of manual work and retrieving information requires lot of register reference and provide ambiguity. Mostly users buy medicines in medical shops in

person. Users will visit other medical shops if the medicine is not available in one shop. In some cases, the desired brand of medicine is not available in the shop he/she visits. The users are forced to purchase medicine of different brand but with same composition.

VI. PROPOSED SYSTEM

The proposed system, prescribing medical site overcomes the drawbacks of the present system. The medical shops helps the people who are in need of a medicines by giving them overall details regarding the donors with the same medicines and combinations and within their city. Making the search for the desired medicines is easy. So that the users can find the medical shops easily and the shop can get more customers.

VII. REQUIREMENTS

- **Hardware Requirements**

Processor	:	Intel(R) Core (TM) i3
Processor Speed	:	3.06 GHz
Ram	:	4 GB
Hard Disk Drive	:	250 GB

- **Software Requirements**

Technology Used	:	Android
Server	:	PHP
IDE	:	Eclipse
Database	:	My SQL

VIII. TEST CASE

Test Case	Description	Test Step	Expected Result	Status (Pass/Fail)
1. Usability	Ensure all links in the web page are working properly	Have admin click on various links on the page	Links will take the admin to respective page	Pass or Fail
2. Functionality	Username should accommodate up to 20 characters	Input a user id with 20 characters	All 20 characters in the user id should be accepted	Pass or Fail
3. Security	Verify password and its working	Input the password to check the validity	If the password is valid, the admin will be logged in, else it will show error.	Pass or Fail
4. Application	Ensure the admin is able to view, edit and manage the cities, medical shops and medicines	Have admin create a city/ medicine, delete a city/medicine	Cities and medicines being added after creating them and deleted after deleting them from the database	Pass or Fail

IX. FUTURE SCOPE

This project can also be added to smart card attendance system so that the controller gets the detail of absentee of a faculty and also can send message to doctor about the absence of faculty and alert another faculty to take position of that absented faculty. This flow control mechanism can be modified and can also be used in other fields such as chemical mixing. The devices used in our project can be replaced by any alternative or better mechanism can be used for pressing and the proposed work can be interfaced with keypad for better results. In future, the system can be extended to a distributed wireless network system. The flow control mechanism proposed can be modified and used in other various fields. Furthermore, with the development of embedded hardware, more complex embedded coding can be done. The sending and receiving speed of a security alert message is high, so this can be used to give more kinds of applications in the future.

X. CONCLUSION

Hence a user friendly and time saving application is developed using PHP and the Android. Since android is the only device used by all the population this application reaches very quickly than any other applications.

XI. REFERENCES

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