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E-Drug Store and Medical Products Shopping — A Brief Study

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ABSTRACT: An android-based mobile app for online drug purchase is implemented in this study. This mobile application was created to make it easier to buy medications online by validating the user's submitted prescription and confirming the order. For the intermediary step to providing service through an Android mobile phone, this system contains web service providers, pharmacist interfaces, databases, and mobile application interfaces. The authorised prescription from a doctor must be uploaded in order for the user to make a purchase through a mobile app, and the prescription will be recorded in the database. The user then initiates the process by entering the name of the medication on the mobile application interface.If the medication is in stock at the pharmacy, the user is free to add it to their shopping cart. If the medication is not there, the mobile app will hold the process until the pharmacist responds with a proposal and receives approval to provide an equivalent brand of medication. The user's submitted prescription is matched to the shopping cart list, and the pharmacist must authorise it before the order can be placed. This system specialises on Android applications. When a user types a medicine name into the user application interface, the system uses the n-gram approach to expedite the search process. The drawback of existing system is online shopping or android apps are not user friendly. The proposed mobile app is user friendly by implementing the Bot Builder Framework for online medicine shopping.

KEYWORDS:android, web service, online medicine shopping.

I. INTRODUCTION

Patients frequently feel too drained to go to the pharmacy when they need medicine. This causes their bodies to develop improperly, causing them to suffer greatly and possibly delaying their recovery from disease or illness. Therefore, it is important to take the right medications in the right amounts at the right times. We integrate an Android-based patient application into the system. This programme will assist the user in taking the right medications in the right amounts at the right times. The user will be able to engage with the system and buy medications with the aid of this Android app. The user experience, easy internal communication, and other relevant information are the major objectives. Expected Outcomes saving time and money to reach individuals. People who live in rural areas can find medicines more quickly, and it is also convenient to find medicines anywhere, at any time. The N-Gram approach, which is utilised in this application to search for medications, is a crucial tool for finding a certain medication or product.

Online herbal medicine ordering has become possible thanks to modern information technologies. The entire herbal medicine sector has made extensive use of information technology, leveraging the benefits of source sharing and the quick adoption of knowledge [5].

Applications are created using the well-liked open-source operating system known as Android. Many smartphones have the Android OS pre-installed [6]. With the growth of the internet and e-commerce, an increasing number of businesses are posting information about their products online. Users can browse products by going to websites through the Internet, and if they are happy with the goods and pricing, they can immediately order them online [7]. The researchers choose to create this application for Android-based smartphones because it has never been done before.The goal of this article is to implement code to create a new Android application for ordering herbal medicines online. The concept is to process input on an Android device and match the appropriate herbal remedy to each condition. This application can automatically match each disease with the appropriate herbal remedy based on the user-provided data.

They must pay for the shipment when it is delivered either with cash on delivery or another payment option such as a credit card. This application's design, which is user-friendly, is what sets it apart from similar products. The users must then confirm the order in order to see how much of the goods they wish to purchase as well as the overall cost of the

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order. After confirmation, users must first log in; if they don't already have an account, they must create one. The users must log in again after the registration procedure is complete. Once logged in successfully, they may check the name, address, and status of their shipments in their account.

II. RELATED WORK

The project's implementation, which uses the chatbot concept and is termed "online pharmaceutical buying system," is made to help patients buy the medications they need. Assistant professors at Adhiparasakshi Engineering College in Melmaruvathur, A. Thirugnanasamb and Hamurthy, titled their paper Paper [1] Deterministic Online Medicine Purchasing for Geo Located Shops. The article explains how consumers can register their information using an Android application.

The initiative offers a wide range of medical services, including online registration of medication information. The user can enter information that will be kept in medical databases. This programme was created for smartphone users. Given how the market for smartphones has changed in recent years, there are other operating systems accessible, but we chose the Android OS to create this application because of its strong user base across the globe.This APP is compatible on different versions of Android, such as starting from the minimum SDK version of Android 3.0 (Honeycomb) to recent update Android 5.0 (Lollipop). The app functions well on the recent update of Android, but we support backward compatibility in view of the other users of Android versions.

Since the practise of buying medications online is relatively new, there is not much literature. Online purchases of medications and other medical supplies are the subject of fewer research studies. There are certain studies that demonstrate the advantages of online drug and medical supply sales. More people are using the internet more frequently, which increases their access to supplements and pharmaceuticals. However, there is little consideration given to factors related to online shopping.

Advantages:

There are several advantages of buying medicines online that will help buyer and seller both. These are listed below:

Save Time

One of the most precious resource time can be save by online order of medicines as it may not be possible that all medicines may available in a single medical shop.

Save Money

As order of medicines is online there will be no need to go to the medical shop and waste money. Also some websites provides discount coupons that can be used while buying medicines and other medical products. Coupons will give extra discounts as per the offer offered by the seller or any other co-partner of the firm. Sometimes it gives more than 20 percent discount on bill amount.

Save Fuel

As buyers do not need to go to market or any other place to buy medicines, so fuel will be saved. Sometimes one medicine may not be available in the market but buyers need it on urgent basis so he has to go to each and every shop to check the availability of that medicine. And when it will be delivered by the seller the courier boy delivers all nearby parcels in the same time so it also saves time and fuel.

Mobile Application

Android, IOs and Microsoft windows applications are available that can be download in mobile phones which makes online shopping of medicines more convenient and easy. It also allows quick online mobile access via internet.

Order Confirmation

Seller also provides order confirmation email and SMS to the buyers. And on the day of delivery buyer will get detail of the delivery person including phone number, amount of order and content of the parcel. Buyer can directly call to the delivery person for convenient time of delivery.

Prescription Requirement

One thing that is awesome about online medicines seller that they ask about prescription while someone buy medicine from their websites.

Online Advertising

Online advertisement also gives benefits to the seller as advertisements on seller's website or mobile application will provide extra money to the seller. Internet promoting is may be the most recognizable case of how firms utilize the rich information.

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III. PROPOSED SYSTEM

The Android-based Online Medicine System is an application. Users may add available medications along with their names and descriptions. The user should have registered themselves before beginning the login process in this step. They have access to all users on the admin side. The essential component of this system is the admin. Requests are approved by the administrator since medical stores cannot login without it.

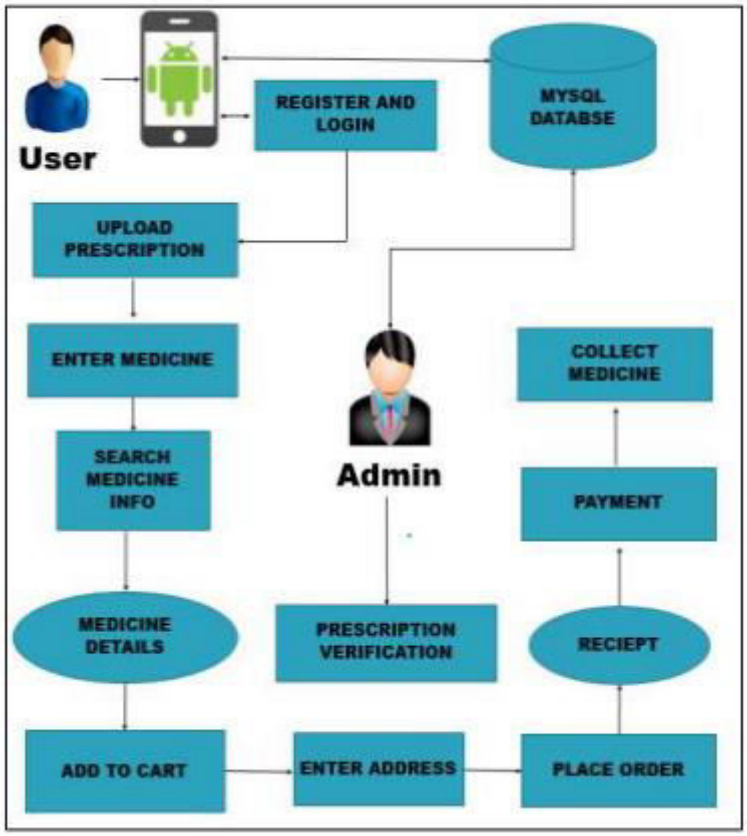

Figure: Architecture

IV. CONCLUSION

Online purchases of medications and medical supplies are unmistakably linked to pharmacies and medical supply companies. This study aids both the seller and the buyer in determining the benefits and drawbacks of online purchasing and selling of medications and healthcare products. It also supports the idea of a digital India because online shoppers tend to make larger purchases due to the discounts and time savings they receive. The seller of medications and medical items will have the option to make the necessary changes as a result of this study after reading the disadvantages in order to increase sales.

This essay introduces the creation of an Android app for ordering prescription drugs online. The plan is to integrate an online order system into the Android app. This programme uses Java Language and straightforward coding. The writers can draw certain conclusions from the description and the method used to apply this research. The system developed an application based on the Android platform that can be executed and accessible through mobile devices based on the Android operating system and was built using the Java programming language with the Android SDK.

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