International Journal of Scientific Research in Engineering and Management (IJSREM)
Volume: 08 Issue: 04 | April - 2024 SJIF Rating: 8.448 ISSN: 2582-3930

An Android Based the Medicine Delivery App & Health Services

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Abstract - In today's fast-paced world, prioritizing health often takes a backseat. This research explores the potential of a comprehensive mobile application that addresses this challenge. The proposed application integrates three key functionalities: medicine delivery with prescription verification, online lab test booking, and personalized diet plan generation. This paper delves into existing literature on medicine delivery apps, online lab testing services, and the role of technology in personalized dietary planning. The methodology section outlines the proposed app's development process, encompassing user interface design, integration with licensed pharmacies and labs, and secure data management practices. Finally, the conclusion explores the potential benefits of such an application for improved healthcare accessibility, convenience, and personalized health management.

***Key Words*:** Html, CSS, Java, PHP, JavaScript, Json, xampp Server.

1. INTRODUCTION

The Intersection of Convenience and Proactive Healthcare Management. The modern world presents a unique challenge for maintaining optimal health. Busy schedules and demanding lifestyles often leave individuals with limited time and resources to prioritize their well-being. This research explores the potential of a novel mobile application that addresses this challenge by integrating three key functionalities: convenient medicine delivery with robust prescription verification, online lab test booking for proactive health monitoring, and personalized diet plan generation for tailored nutritional guidance. This application bridges a critical gap in the current healthcare landscape. Existing medicine delivery apps offer undeniable convenience in acquiring medications, but concerns persist regarding prescription accuracy and medication adherence.

This proposed app addresses these concerns by partnering with licensed pharmacies and requiring prescription uploads for controlled substances. Access to essential medications should be as easy and reliable as ordering your favorite meal or hailing a ride. That's where our Medicine Delivery App steps in, revolutionizing the way you access your prescriptions and over-the-counter medications. Our Medicine Delivery App is designed with one primary objective: to make your life simpler, healthier, and more stress-free. We understand that picking up medications from a pharmacy or waiting in long queues can be a daunting task, especially when you or your loved ones are unwell. That's why we've harnessed the power of technology to provide a seamless, on-demand solution for all your pharmaceutical needs.

2. EXISTING SYSTEM

In the current healthcare landscape, individuals typically obtain their prescribed medications through traditional methods, which primarily involve physically visiting brick- and-mortar pharmacies. While this approach has been the conventional way of accessing medications, it poses several challenges and limitations:

Limited Accessibility: Many individuals, especially those living in remote areas or with limited mobility, face difficulties in accessing pharmacies due to distance or transportation constraints. This can result in delays or barriers to obtaining essential medications, particularly for individuals with chronic conditions requiring regular medication refills. Time-consuming Process: Visiting a pharmacy to fill a prescription often requires a significant time investment, especially during peak hours or when faced with long queues. This can be inconvenient for individuals with busy schedules or those seeking urgent medication refills. Dependency on Others: Some individuals may rely on family members, caregivers, or friends to pick up their medications from pharmacies, adding an additional layer of complexity and dependency to the process.

3. Literature Review:

As the mobile communication technology is developing rapidly, there is much work in the literature in this regard.
Mobile health apps, also known as mHealth apps are becoming increasingly popular, for improving healthcare access promoting medication adherence and aiding in disease management. This review of research papers combines insights to discuss the creation and use of a medicine delivery app that includes features like purchasing medications booking tests online and providing disease specific diet plans.

This paper delves into mobile health applications used for managing medications, such, as apps for medicine delivery. Assesses how well they work in helping patients manage their medication. It covers aspects like features, user friendliness and the impact on outcomes. A study is conducted to design and evaluate an app specifically created to enhance medication

adherence by incorporating features like medicine delivery and reminders.The assessment includes looking into usability, functionality and the effects on patient care. A randomized controlled trial investigates how a medication management app impacts adherence to medications by incorporating features like medicine delivery

Key Objectives:

Accessibility: Make it simple for people to buy drugs and healthcare products, especially those who are immobile or in distant locations.
Convenience: Allow customers to purchase medicines and other health care products online at home or even when on a trip; they do not have to visit their neighborhood drug store**.**
Wide Range of Products: A variety of medical kits, medicine, wellness products and other items that are needed in the health sector should be made available.
User-Friendly Interface: The interface should be easy to use as it is designed in such a way that users can browse through items ordered, make orders, track deliveries and deal with prescriptions with ease.
Prescription Management: People making the prescriptions need to be allowed upload their responses, request refills, and receive reminders for medication refills among other options concerning prescription management.
Real-Time Tracking: One can track real-time tracking of their order including estimated delivery time and notifications of any changes in status of the order.
Secure Payment Options: There should payment methods such as cash on delivery (COD),
Personalized Recommendations: Give custom-made product recommendations depending on a customer's preferences, purchase history and medical history.
Health Information and Education: Where possible provide information on healthy lifestyles.

4. METHODOLOGY

Frontend Technologies

HTML, or Hypertext Markup Language, is the standard language for creating and structuring content on the web ,HTML helps organize information through elements like headings, paragraphs, and lists. It allows for the inclusion of hyperlinks to navigate between sections or external sources. HTML also supports multimedia integration, ensures accessibility, aids discoverability through metadata, and enables interactivity for engaging readers. Overall, HTML serves as a fundamental tool for presenting research effectively online.

CSS for Cascading Style Sheets stands. It is a sheet-style language used to define the appearance and format of a markup document. It gives HTML a supplementary function. Used with HTML, the style of user interfaces and webpage is changed. It may also be used in XML documents of any form, including simple XUL, SVG and XML documents. In most websites, CSS is used with HTML and JavaScript to develop web-based user interfaces and user interfaces for a variety of mobile applications.

JavaScript or JS is an object oriented light weight language used for web page scripting by various online sites. The HTML document is a fully interpreted computer language allowing interactivity dynamically on web pages. In 1995, it was launched to add software to Netscape Navigator's web pages. All other graphical web browsers have been embraced since then. Users may construct contemporary web applications with JavaScript so that they can interact without refreshing the page at all times. Js is used in the conventional website for various sorts of easiness and interaction

JSON (JavaScript Object Notation), A lightweight, human-readable data interchange format for structured data. Often used to exchange data between web servers and web applications, but can be employed in various contexts for data storage and transmission. Characterized by key-value pairs enclosed in curly braces, with values being strings, numbers, arrays, or Booleans

PHP, A server-side scripting language primarily used for creating dynamic web content. Processes code on the web server before sending HTML, CSS, or JavaScript to the user's browser. Popular for building interactive websites and web applications, often in conjunction with databases like MySQL.

Java, A general-purpose, object-oriented programming language known for its platform independence ("write once, run anywhere"). Used to develop a wide range of applications, from web servers and desktop software to mobile apps and enterprise systems. Offers rich libraries and frameworks that streamline development.

Backend Technologies

XAMPP Server, A free and open-source Apache distribution that includes essential components for running a web server environment on your local computer. Packages Apache HTTP Server, MySQL database management system, PHP scripting language interpreter, and Perl support into a single stack. Enables development and testing of websites and web applications before deployment to a live server.

5. SYSTEM ANALYSIS

Processor: At least later than Intel Atom processor.
Ram: At least $GB
Space: At least 2GB space is ideal to run.
Operating System: MacOS, Windows (Win 7 or later), or Linux.
Software Requirement: Android Studio and Xampp Server
Frontend: Html, CSS, Java, XML,
Backend: Xampp Server.

6. SYSTEM DESIGN

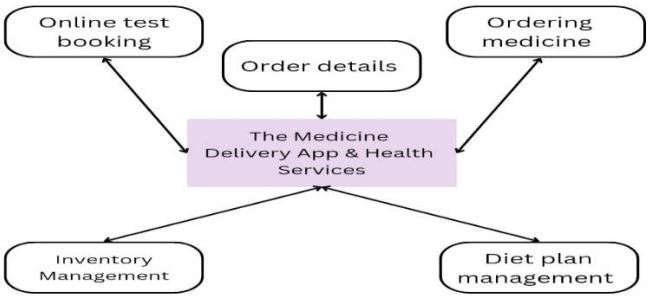

Fig-1: Data Flow Diagram

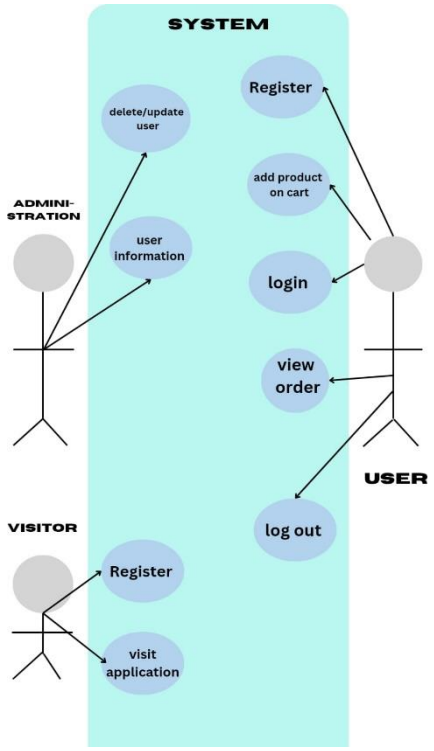

Fig-2: Use Case Diagram

10. RESULT

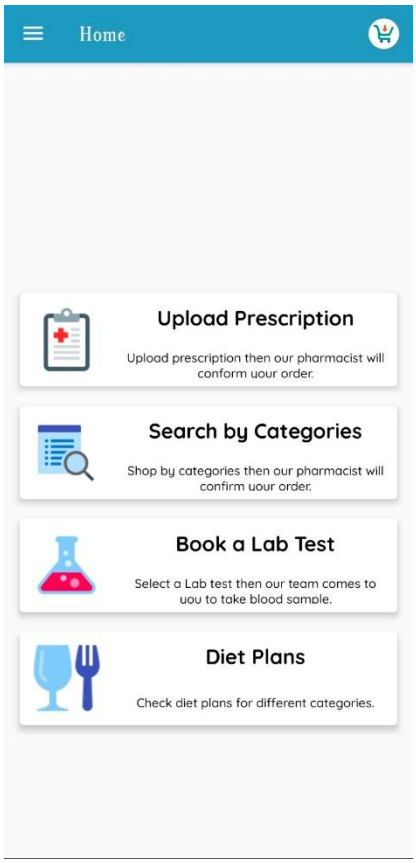

Fig-3: Homepage

11. CONCLUSIONS

This comprehensive healthcare application has the potential to revolutionize how individuals manage their health. By integrating medicine delivery, online lab test booking, and personalized diet plans, the app empowers users to take charge of their well-being with greater convenience and control. Further research can explore the long-term impact of such applications on medication adherence, preventive healthcare practices, and overall health outcomes. Ultimately, this multi-functional application has the potential to bridge the gap between convenience and proactive healthcare management, fostering a future of empowered individuals taking charge of their health with greater ease and control.

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