



MED Healer Application

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ABSTRACT:

Healthcare practitioners now have access to a wide range of apps and technologies because to the quick advancement of technology. This project aims to solve these problems by giving users access to health-related information, enabling them to read, acquire knowledge to help them make decisions, and upload their own data. With this project, clinicians will be able to more easily schedule appointments, provide both in- and out-patient treatment, and seamlessly transition patients between providers in the event of a leave of absence. This creative project makes use of important tools and technology, including two Android programming languages—Kotlin and Java—and an Android app. Android Studio is the greatest integrated development environment (IDE) for creating Android apps. Usually, Android IDEs may be used with Windows, Mac, and Linux operating systems. The program is a vital resource for physicians alike, and it is both free and customized. This versatile and easy-to-use Android app has undergone thorough testing, with customizable features to accommodate a wide range of user requirements. An example of how technology may revolutionize and optimize accessibility and management is the Doctor application.

Keywords: Online Appointment System, Patient Record, Doctor Specialization

Introduction:

Create the idea for a doctor application that will assist the physician in finding patient information, assigning a duty physician, and scheduling lab tests. a platform that provides service providers authorized to deliver lab test details. Utilizing technology's ability to improve accessibility and efficiency is essential as it continues to change many aspects of our life. Our initiative is ready to tackle this important issue by creating a complete platform for doctors that puts an emphasis on user involvement, usability, and accessibility. Our concept promises an all-encompassing approach to doctor administration, from simplified appointment scheduling to a centralized database for preserving patient and doctor profiles.

Our mission is to ensure that doctors have easy access to dependable services and provide a directory of service providers approved to conduct diagnostic tests at regulated prices and with uncompromising quality. We aim to create an environment where healthcare is not just a service but an experience tailored to each individual's unique needs by embracing the latest technological advancements.

Problem statement:

The Med Healer Mobile Application ensures affordability and quality while addressing the difficulty of locating appropriate patient and diagnostic records. For seamless continuity of care, it provides physicians with a free, configurable platform to manage patient profiles for both in- and out-patients as well as patient handovers during leaves. With a varied user base, this software aims to improve doctor access and management while improving overall patient wellness.

OBJECTIVES

Examine how healthcare management apps affect the provision of medical treatment, paying particular attention to the functions and roles that physicians play. Examine the value of user-centered design in Med Healer apps and how it affects both in- and out-patient participation. Analyze how digital tools can improve the effectiveness of operations.

Draw attention to the necessity of strong security and privacy measures in order to guarantee the safety of patient data and adherence to pertinent laws.

Give medical professionals a single platform to easily manage both inpatient and outpatient treatment .

Create modules that give doctors access to lab results and patient data, encouraging a comprehensive approach to patient care.

Assist in streamlining healthcare processes so that physicians have a streamlined and effective experience.

Find and include features that complement physicians' workflow requirements to reduce interruptions and boost productivity.

PROPOSED METHODOLOGY

Examine the true effects of current apps on the productivity and time management of doctors. Evaluate the extent to which these apps have been successful in streamlining doctors' processes and lowering administrative responsibilities, and note any shortcomings. A mixed-method research technique will be used to collect and analyze both quantitative and qualitative data in order to meet these goals.

This creative project uses Java and Kotlin, two Android programming languages, together with essential tools and technology to create an Android app. Android Studio is the greatest integrated development environment (IDE) for creating Android apps. Usually, Android IDEs may be used with Windows, Mac, and Linux operating systems.

Interviews with physicians, duty physicians, and healthcare administrators will be conducted in order to ascertain how the application would affect their day-to-day operations.

Overview of the literature to give readers a thorough grasp of the most recent developments in medical applications and the effects of technology on the healthcare industry.

SOFTWARE REQUIREMENTS

The core tool for writing and running Java programs is the Java Development Kit (JDK). Notably, you can run multiple JDK versions on the same computer, albeit installing the most recent version will yield the best results.

Here's how to install JDK 8 on a Windows computer, step-by-step:

Steps for Installing JDK:

Step 1:

JDK 8 download

Go to Oracle.com and select "JDK Download for Java."

Step 2:

After accepting the license agreement, download

Please accept the license terms.

Select the 32- or 64-bit JDK version that you need, then click Download.

Select the 32- or 64-bit JDK version that you need, then click Download.

Step 3:

Open an Oracle account, if necessary

Examine and approve the Oracle Technology Network License Agreement if required. It might be necessary for you to create an Oracle account or log in.

Step 4:

Execute the Installer

Launch the JDK installer executable after downloading.

To proceed with the installation, click "Next".

Step 5:

Configure the Installation Path

Select the Java installation path on your Windows computer. Press "Next" to continue.

Step 6:

Finish the Installation

After installation is finished, select "Close." Configuring Variables in the Environment:

Step 1:

launch System Properties.

Click "My Computer" with a right-click, then choose "Properties."

Step 2:

Go to the Advanced System Configuration Then select "Advanced system settings."

Step 3:

Open the Environment Variables menu.

To access the "Environment Variables" window, click on it.

Step 4:

Configure the Path Variable

In the User variables section, select "New". Assign the variable name "PATH."

Make a copy of the JDK installation directory's "bin" folder path. In Variable Value, paste the path, then select "OK."

Step 5:

Make the variable CLASSPATH Follow a similar process to set the CLASSPATH variable if needed.

Step 6: Verify Installation

Open the command prompt and type Java commands. If Java is installed correctly, you'll see a confirmation screen.

By following these steps, you ensure that Java is not only installed on your Windows system but also properly configured through environment variables, facilitating smooth execution of Java programs.

Results:

SYSTEM STUDY

9.1 FEASIBILITY STUDY

System development starts with a comprehensive analysis to determine the project's viability, followed by the presentation of a business proposal, a general project plan, and cost estimates. To make sure the suggested solution fits the goals of the business without becoming prohibitively expensive, this analysis is essential. It is crucial to comprehend the primary system requirements at this stage.

The feasibility analysis encompasses three key considerations:

Economic Viability:

An evaluation is conducted about the framework's financial effects on the association. In light of the limited budget allocated for creative projects, supporting expenses is essential. The developed framework uses freely available innovations while adhering to budgetary constraints; only redesigned items incur expenses.

Technical Feasibility:

The specific requirements for the framework are the main focus of the technical feasibility assessment. The framework must avoid placing an excessive burden on available specialized resources, hence preventing excessive demands on the user. The designed framework is laid out with modest requirements, ensuring that little to no advancement is needed to carry it out.

Social Feasibility:

The level of client acknowledgement of the framework is evaluated by social feasibility. In order to ensure that clients are comfortable and perceive the framework as a necessity rather than a threat, client preparation plays a crucial role. Recognizing clients depends on effective training techniques, establishing trust, and enabling insightful feedback from clients who are ultimately the framework's end-clients. When it comes to the framework testing phase, the main goal is to identify errors and ensure that the product satisfies the requirements and client expectations. Testing entails examining every potential flaw in the work item, starting with the components and ending with the finished product. It is the most popular method of using the product to avoid disappointing results. Different types of tests assure full coverage by addressing certain testing requirements. The initial phases of a venture prioritize thorough research while considering achievability in terms of finances, expertise, and society. The purpose of the framework testing step is to

find and fix errors so that the final programming item complies with requirements and client expectations. This methodical approach contributes to the successful execution and enhancement of the framework.

Conclusion

Android Studio will be used to implement the suggested Doctor Application for application development. This work's tasks are broken down into modules. The suggested system features an easy-to-use interface and is effective. Future work will include adding the admin and doctor modules to the Android application. That would make it easier for the doctor to sign up and complete all of the app's requirements. Instead of utilizing the website, the admin would be able to manage the patient and doctor details using the app. When scheduling an appointment, users/patients may be charged a fee or a certain amount in order to deter unethical users. As many users merely register themselves just for fun and has no concern about arranging an appointment.

Through our analysis, we found that important information often seems to be missing while looking for information about emergency clinics. In an emergency, this could cause delays and confusion. Our web program offers a full answer to this issue in the present digital age by offering detailed information about medical facilities, including bearings. It is therefore a very useful tool to have on hand when things go tough.

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