DOCPRO DOCTOR APPLICATION

RAKSHITHA M

Department of computer science and

engineering

Presidency University

Bengaluru

CHANDAN RAO KV

Department of computer science and

engineering

Presidency University

Bengaluru

D CHANDAN

Department of computer science and

engineering

Presidency University

Bengaluru

ABSTRACT - The rapid evolution of technology, has offered access to a variety of applications and technologies to healthcare professionals. This project addresses these challenges which provide information to the user about health issues, allowing a person to read, gather resources to make decisions, but also to introduce its own data. This project resolves to help doctors plan their appointments, out-patient & in-patient care, handover of patients in case of leaves for seamless continuity of care.

Keywords: Doctor, Appointments, in-patient, out-patient, healthcare

1. INTRODUCTION

Develop the concept of a Doctor Application that helps the doctor looking patient details or appointing any duty doctor and lab test. A platform that offers service providers approved for details of Lab tests. As technology continues to redefine various facets of our lives, it is crucial to leverage its potential to enhance the efficiency and accessibility. Our project is poised to address this critical problem by developing a comprehensive doctor platform that prioritizes usability, accessibility, and user engagement. From streamlined appointment booking to a centralized database for storing doctor and patient profiles, our project envisions a holistic approach to doctor management.

By embracing the latest technological advancements, we aspire to cultivate an environment where healthcare is not just a service but an experience tailored to the unique needs of each individual, our mission is to ensure that the doctor has easy access to reliable services, while also offering a directory of service providers approved to conduct diagnostic tests at regulated prices and with uncompromising quality

2. PREVIOUS WORKS

In the dynamic and demanding landscape of healthcare, the need for streamlined processes and efficient communication among healthcare professionals has never been more crucial. Recognizing the challenges that doctors face in managing appointments, outpatient and inpatient care, and the seamless handover of patients during

leaves, we present "DocPro" – a groundbreaking mobile application designed to empower doctors in optimizing their time, enhancing patient care, and ensuring uninterrupted continuity even in the face of unexpected absences,."DocPro" is driven by the motivation to empower doctors with a tool that enhances their planning capabilities. By providing a centralized platform for outpatient and inpatient care management, appointment of duty doctors and checking of lab reports, our app aims to liberate doctors from the administrative burdens, allowing them to focus on what truly matters – delivering quality healthcare.

3. METHODS

3.1. Technologies Used

3.1.1. BACKEND

JAVA: The backend utilizes Java, providing a fast and scalable runtime for prompt-based interactions.

SQLITE: SQLITE serves as the database, offering flexibility in data storage for doctor app interactions .

3.1.2. FRONTEND

XML: The frontend is developed using XML, a library known for building dynamic and responsive user interfaces.

3.2. Doctor app

3.2.1. OBJECTIVE

The platform prioritizes in-patient and out-patient care, diagnostic test reports and allotment of duty-doctor, fostering engagement through personalized experiences and knowledge exchange between doctors and duty-doctor. Confirming appointments with patients is effortlessly streamlined. The scope encompasses creating an intuitive system that revolutionizes the healthcare experience for both doctor and duty-doctor

3.2.2. MOTIVATION

"DocPro" is driven by the motivation to empower doctors with a tool that enhances their planning capabilities. By providing a centralized platform for outpatient and inpatient care management, appointment of duty doctors and checking of lab reports, our app aims to liberate doctors from the administrative burdens, allowing them to focus on what truly matters – delivering quality healthcare.

3.3. FUNCTIONALITY

3.3.1. Admin Functionality:

Administrators are central to the effective functioning of healthcare management applications. Their responsibilities encompass logging in, viewing patients, check Appointments, assign duty doctors in case of absence Additionally, administrators play a vital role in adding and updating healthcare lab report information. A responsive system that ensures data security is essential in fulfilling the evolving needs of healthcare administration.

. 3.3.2. Doctor Functionality:

Doctors using the application have the ability to log in, access appointment schedules, accept or reject appointment requests, and update their availability status. Effective doctor-patient communication is vital, and the literature highlights the value of healthcare applications in enabling doctors to manage their appointments electronically. This improves scheduling efficiency and patient satisfaction.

3.3.3. Duty Doctor Functionality:

Doctors using the application have the ability to log in, access appointment schedules and the lab tests. This improves scheduling efficiency and doctor satisfaction. In case of emergency the specialized main doctor Absence the duty doctor will be assigned to the take care of the patient.
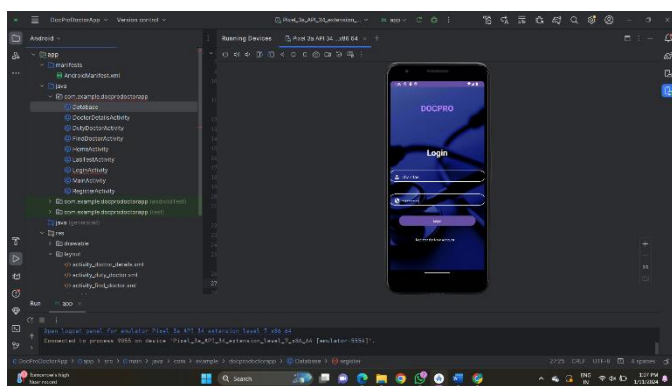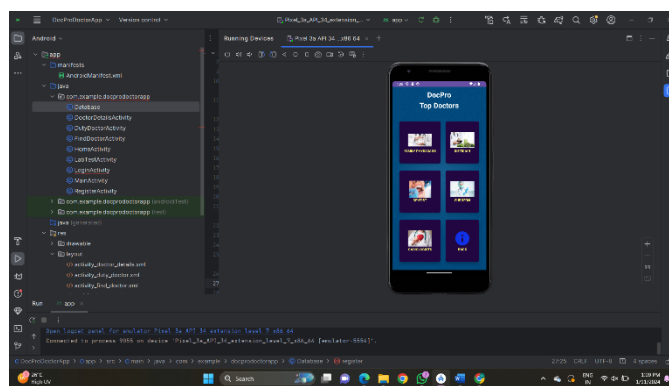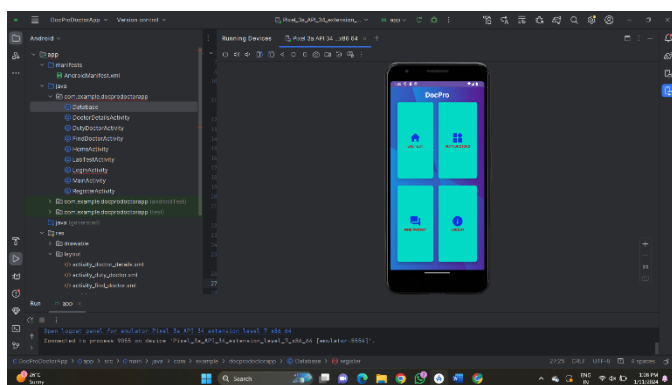
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Fig -2: Figure

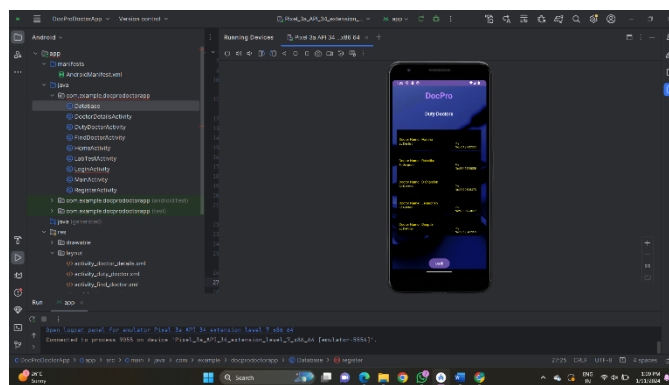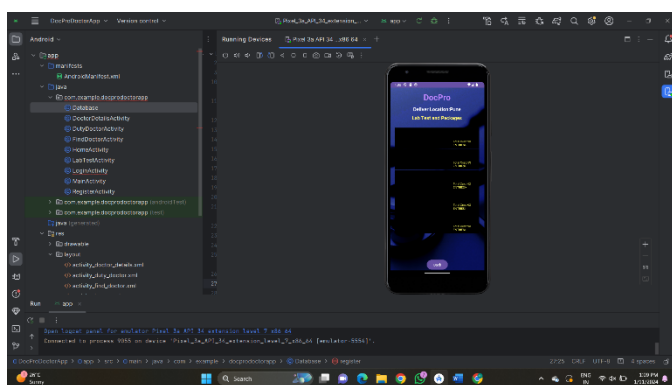**Fig -3**: Figure

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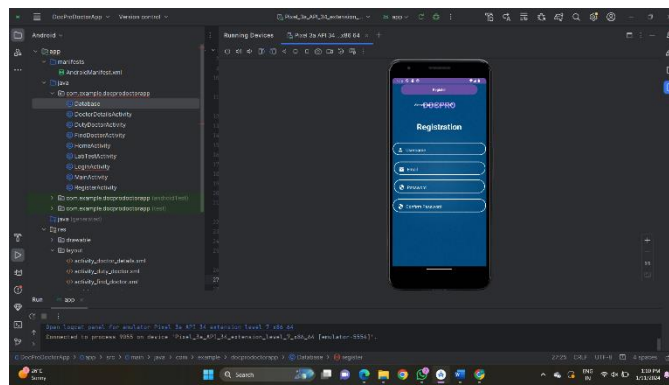

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Fig -6: Figure

4. FUTURE WORK

The future enhancements in mobile care services hold promising possibilities for a more seamless and effective healthcare experience. One potential avenue for improvement lies in the integration of advanced artificial intelligence (AI) algorithms. Implementing AI can enhance diagnostic capabilities, streamline administrative processes, and provide personalized health recommendations based on individual patient data.

Additionally, the incorporation of telemedicine technologies can further revolutionize the delivery of care. Real-time video consultations and remote monitoring tools can bridge geographical gaps, ensuring that patients, regardless of their location, have access to timely medical advice and intervention. This not only expands the reach of healthcare services but also promotes continuity of care

5. CONCLUSION

The proposed Doctor Application will be implemented in android studio for application development. The tasks involved in this work are divided into modules. The proposed system is efficient and has friendly user interface. Addition of the admin and doctor modules in the android application are included in future work. That would help the doctor to register on the application and perform all the tasks on the app. The admin would be able to use the app for managing the details of the patients and the doctors instead of using the website. A payment or some amount may be charged to the users/patients while making an appointment to avoid the unethical users. As many users only register themselves just for fun and has no concern by making an appointment.

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