Android Application for Health Book

Ms. Manjiri Malakari Mashale[1], Ms. Saloni Mahadev Pawar[2], Ms. Shravani Bajrang Shevatekar[3], Ms. Shreya Mallinath Solse[4], Ms. Nisha Santosh Waghmare[5]. Ms. Raksha Dilip Mutha, Mr. Kashinath chormale

[1]Diploma Student, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, manjirimashale@gmail.com [2]Diploma Student, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, pawarsaloni2008@gmail.com [3]Diploma Student, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, shravanishevatekar13@gmail.com [4]Diploma Student, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, shreyasolshe157@gmail.com [5]Diploma Student, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, nishawaghmare270@gmail.com [6]Lecturer, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, rakshamutha14@gmail.com [7]Lecturer, Department of Information Technology, Shri Siddheshwar Women's Polytechnic, Solapur, kashinath.chormale@gmail.com

I. ABSTRACT

Heath Book is an Android health book app designed to store all health-related information in one place. It helps users maintain personal details, medical history, allergies, and vaccination records safely. The app also allows saving prescriptions, medical reports, and lab test results for easy future reference. It supports tracking doctor visits and ongoing medicines, making health management simple and organized. Overall, Heath Book provides quick access to important health records anytime, especially during emergencies or hospital visits.

II. INTRODUCTION

Heath Book is an Android-based health book application developed to help individuals store, organize, and access their complete health-related information anytime and anywhere. In many cases, patients keep medical records like prescriptions, reports, and discharge summaries in paper form, which can be lost, damaged, or forgotten during hospital visits. Heath Book solves this problem by maintaining all important health details digitally in one place, making it easier for patients and families to manage health records properly and share the correct information during emergencies or regular checkups.

The application allows users to save and manage personal health details such as basic patient information, medical history, allergies, blood group, vaccinations, previous illnesses, and ongoing treatments. It also supports uploading or saving medical documents like lab test reports, prescriptions, scan reports, and consultation notes so that users can refer to them whenever required. By keeping records in a structured format, the app reduces confusion and helps patients track their health progress over time

Another key feature of Heath Book is the medicine reminder module, which helps users take medicines on time. Patients can enter medicine name, dosage, timing, and duration, and the app sends reminders/alerts at scheduled times. This is especially helpful for elderly people, chronic patients, and anyone who needs to follow a strict medication routine. Overall, Heath Book is designed to make healthcare management simple, organized, and efficient by combining health record storage, appointment handling, doctor interaction, and medicine reminders in a single mobile platform.

III. LITERATURE SURVEY

Personal Health Record (PHR) applications are designed to provide patients with a digital platform to store, manage, and access all their health-related information in one place. This includes personal details, medical history, lab reports, prescriptions, allergies, vaccinations, and

records of doctor visits. Studies have shown that PHR apps significantly improve patient engagement, enhance communication between patients and healthcare providers, and ensure that critical health data is accessible during emergencies or routine checkups. Usability, accessibility, and robust data security are considered essential factors for the effectiveness of such systems.

Medication reminder apps are particularly important for improving adherence to prescribed treatments, especially for patients with chronic illnesses or complex medication schedules. By sending timely alerts, tracking doses, and providing reminders, these apps help reduce missed doses and ensure patients follow their treatment plans. Research indicates that apps that combine reminders with tracking and educational support provide better long-term health outcomes and improved patient compliance.

Online appointment booking systems in healthcare have been shown to streamline scheduling and improve operational efficiency. They allow patients to request appointments digitally and enable doctors to accept or reject requests based on availability. These systems reduce waiting times, minimize missed appointments, and enhance overall satisfaction for both patients and healthcare providers. Integration of automated reminders with these systems further improves attendance rates and patient adherence to follow-ups.

While many existing healthcare apps focus on only one of these features—either record management, medicine reminders, or appointment scheduling—there is a clear need for a comprehensive solution. Heath Book addresses this gap by combining all three key functionalities into a single, user-friendly platform. By integrating health record management, appointment booking with doctor approval, and medicine reminders, the app provides a holistic approach to healthcare management, supporting both patients and doctors, and improving accessibility, convenience, and efficiency in day-to-day health monitoring and treatment.

IV. PROPOSED METHOLOGY
There are 3 modules such as
1.Patient
Module
2.Doctor
module
3.Admin

The Heath Book application is designed using a modular approach, dividing the system into three main modules: Patient Module, Doctor Module, and Admin Module. Each module serves a specific purpose and interacts with the others to ensure smooth functioning of the system.

The Patient Module serves as the main interface for users who want to manage their personal health records. Patients can register and maintain their personal information and medical history, store health-related data such as lab reports, prescriptions, allergies, vaccinations, and doctor visit notes. They can also book appointments with doctors and receive updates regarding acceptance or rejection of requests. Additionally, the module allows tracking of medicine schedules through built-in medicine reminders, ensuring timely medication, and provides access to consultation results, reports, and recommendations shared by doctors after appointments.

The Doctor Module is designed for healthcare providers to manage patient appointments and records efficiently. Doctors can accept or reject appointment requests based on availability, access patient health records, previous reports, and medical history for better diagnosis, and provide consultation notes, test results, and treatment recommendations directly through the app. The module also enables doctors to monitor ongoing treatments and communicate important instructions or alerts to patients as needed.

The Admin Module is responsible for overseeing the overall system and ensuring data integrity. Administrators manage user accounts for both patients and doctors, monitor appointments and records to maintain smooth operations, implement proper security measures for sensitive health data, and generate reports and analytics to track system usage and performance.

This modular methodology provides a clear separation of responsibilities, improves system maintainability, and ensures a secure and user-friendly experience for both patients and doctors.
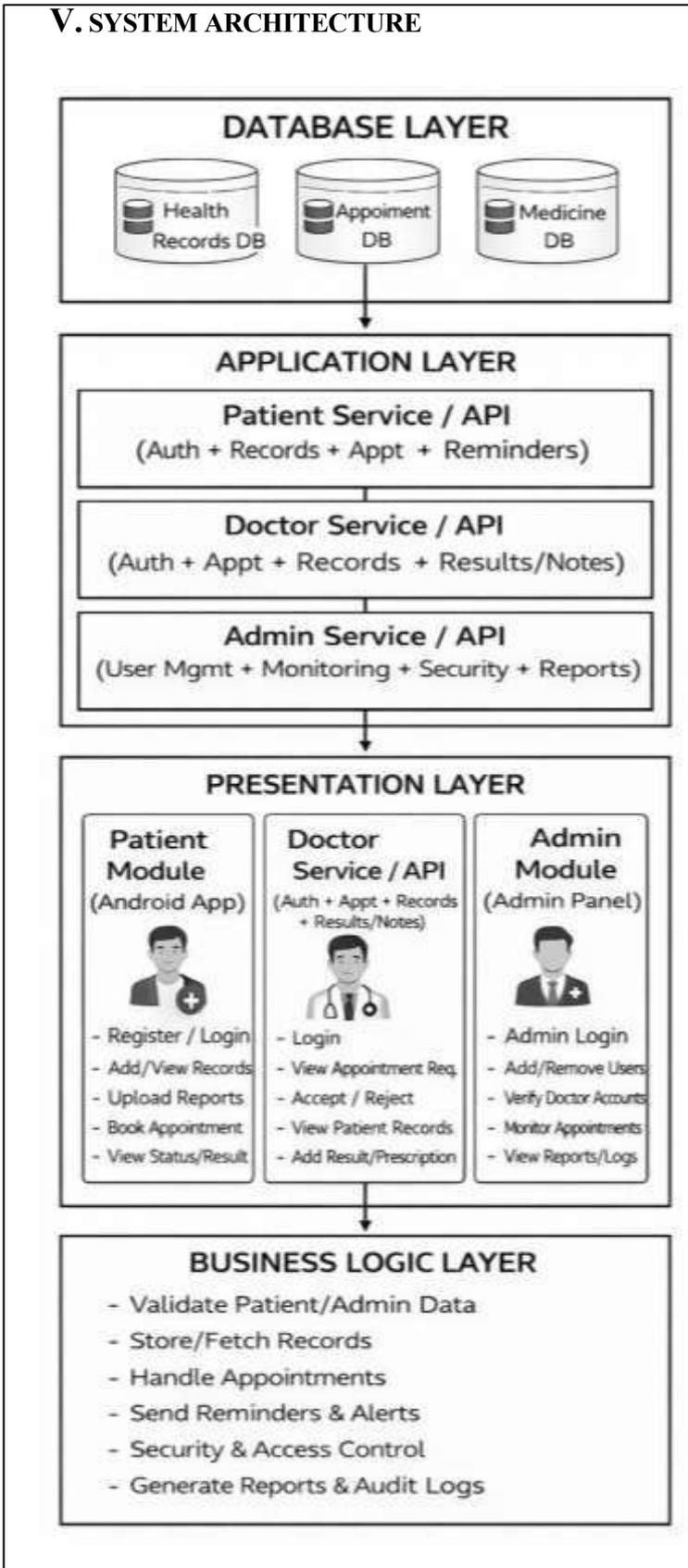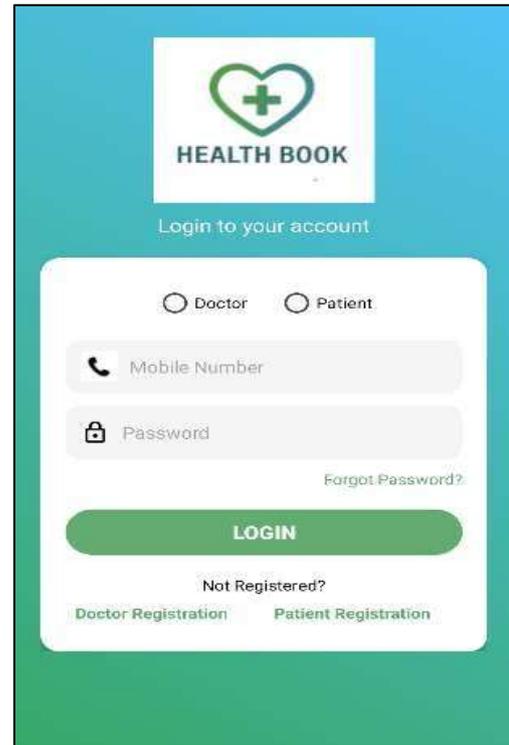
V. SYSTEM ARCHITECTURE
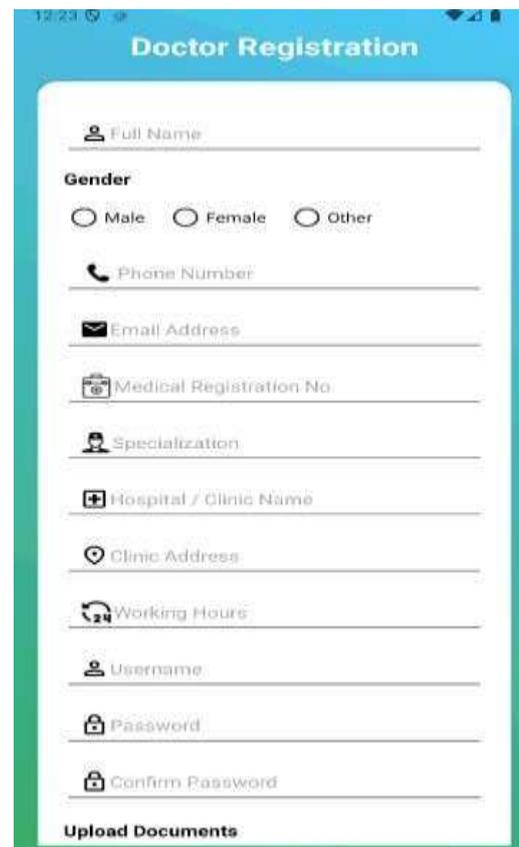

Figure 1- System

Figure 2- login page
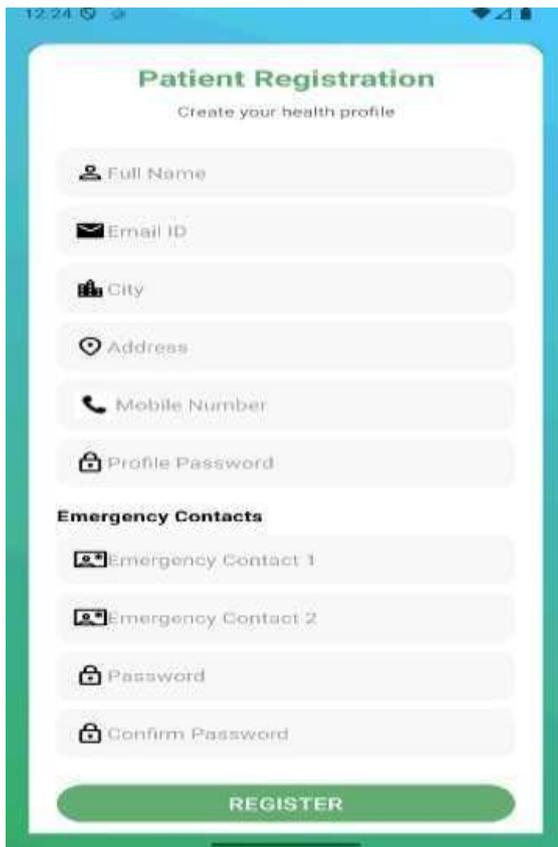

Figure 3- Doctor Registration

Figure 4- Patient Registration

Figure 6- Doctor Profile

Figure 5- Doctor Dashboard

Figure 7- Patient Dashboard

VI. RESULT DISCUSSION

The Heath Book Android app, developed using PHP, MySQL, JavaScript, HTML/CSS, and Android Studio, provides a seamless and efficient platform for managing health records.

Key results include:

1. **COMPLETE HEALTH MANAGEMENT:** Patients can store personal details, medical history, prescriptions, and lab reports.

2. **APPOINTMENT HANDLING:** Patients can book appointments and doctors can accept or reject requests easily.

3. **MEDICINE REMINDERS:** Users receive timely notifications to take medicines, improving adherence.

4. **SECURITY AND DATA PROTECTION:** Patient and doctor data is securely stored in a centralized database.

5. **FUTURE IMPROVEMENTS:** The app can be enhanced with additional features like advanced analytics, teleconsultation, and health tracking charts.

VII. CONCLUSION

The Heath Recorder application is a comprehensive and user-friendly platform designed to manage personal health information efficiently and securely. By combining health record management, appointment scheduling, and medicine reminders in a single app, it enables patients to maintain complete medical histories, track medications, and easily communicate with doctors. This integration reduces reliance on paper-based records, minimizes the risk of missed appointments, and ensures timely adherence to prescribed treatments, thereby improving overall healthcare management.

The app also provides doctors with easy access to patient records, previous medical reports, and treatment history, supporting better diagnosis and informed decision-making. The admin module ensures data integrity and security, maintaining trust in the system. With its intuitive interface and centralized database, Heath Recorder enhances

convenience, efficiency, and accessibility for both patients and healthcare providers.

Overall, Heath Recorder demonstrates the potential of mobile technology in streamlining healthcare processes, improving patient compliance, and supporting effective health monitoring. In the future, additional features such as teleconsultation, health analytics, and advanced tracking could further enhance the app's utility, making it a complete digital healthcare solution.

VIII. REFERENCES

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