DECLARATION

We HEMALATHA.N.K (4HG20CS009) and VINAY.N (4HG20CS033) students of 6th semester B.E, CSE, Government Engineering College, here by declare that the project entitled **"MEDICINE REMINDER "** has been carried out by me, under the supervision of **HARSHITHA H R** faculty, Dept of CSE submitted in partial fulfilment of the requirements for the award of the degree of computer science and engineering by the Visvesvaraya technological university during the academic year 2022-23. This report has not been submitted to any other organization/university for any award of degree certificate.

BY
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ABSTRACT

Medicine Reminder Android App Project is a native android application meant to aid the forgetful and busy with remembering to take their daily medications. It is designed for users who need a little help keeping track of their medication schedule and who are dedicated to keeping the schedule. The application allows the user to store pill objects and multiple alarms for those pills. Alarms have one time of day and can occur on multiple days of the week. The user is able to view their pills in a today view and can select date to view medicines. In addition,the application stores the history of when each medication was taken; this will aid the user in keeping track of their medication usage.

ACKNOWLEDGEMENT

The completion of any project involves the efforts of many people. We have been lucky to have received a lot of help, support from all directions during this project, so with the gratitude we take this opportunity to acknowledge all those who guide and encouraged us.

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Chapter 1

Introdution

Medicine Reminder Android App Project is a native android application meant to aid the forgetful and busy with remembering to take their daily medications. It is designed for users who need a little help keeping track of their medication schedule and who are dedicated to keeping the schedule. The application allows the user to store pill objects and multiple alarms for those pills. Alarms have one time of day and can occur on multiple days of the week. The user is able to view their pills in a today view and can select date to view medicines. In addition, the application stores the history of when each medication was taken; this will aid the user in keeping track of their medication usage.

1.1 Problem Statement

The aim of the medicine reminder Android app project is to help users manage their medication schedules effectively, reduce the risk of missed doses or overdoses, and ultimately improve health outcomes.

1.2 Objectives

The objectives of a medicine reminder application may includes:

- **Remind Users to Take their Medication:-** The app should send reminders to users when it is time to take their medication, helping them to stay on track with their medication schedule.
- **Track Medication History:-** The app should allow users to track their medication history, making it easy to monitor adherence to their prescribed medication schedule.
- **Provide Medication Information:-** The app should provide information about each medication, including the name, purpose, and potential side effects, to help users understand their medications better.
- **Ensure User Privacy and Security:-** The app should ensure the privacy and security of user data to protect sensitive information.

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1.3 Advantages

- **Improve Medication Adherence:-** One of the primary advantages of using a medicine reminder app is that it significantly improves medication adherence. The app sends timely reminders to users, ensuring they take their medications as prescribed by their healthcare providers. This helps avoid missed doses, leading to more effective treatment outcomes.
- **Empowering Patients:-** Medicine reminder apps empower patients by putting them in control of their medication management. With the app, users can take an active role in their healthcare and adhere to their medication regimen independently. This fosters a sense of responsibility and ownership over their health, promoting self-care and improved medication adherence.
- **Medication tracking and history:-** A medicine reminder app can also serve as a medication tracker, helping users keep a record of their medication history. This feature is especially beneficial for individuals who need to monitor their medication intake.

- **Flexibility and accessibility:-** Medicine reminder apps are available on Android smartphones and tablets, making them easily accessible to users at any time and from anywhere. Users can carry their medication management tool with them, ensuring they never miss a dose even when they are away from home.
- **Easy to Use and User-Friendly Interface:-** Android medicine reminder apps are designed to be user- friendly and intuitive, catering to individuals of varying technological proficiency. The app typically has a clear and simple interface, making it easy for users to set up reminders, add medications, and access important information.

1.4 Organization of Report

The organization of the report in the Medicine Reminder app focuses on providing users with a clear and concise overview of their medication history and adherence. The report is designed to be intuitive and user-friendly, presenting essential information in a structured manner.Overall, the organization of the report in the Medicine Reminder Android app aims to empower users with a comprehensive and visually appealing overview of their medication regimen. By providing essential information and visual cues, the app promotes better medication management, adherence, and ultimately, improved health outcomes.

Chapter 2

Requirement Analysis

2.1 Hardware Requirements

Minimum hardware specification

Processor	Intel or AMD
Hard Disk	512 GB
RAM(Random Access Memory)	8 GB or more

Table 2.1: Hardware Requirements

2.2 Software Requirements

Minimum software specification

Operating system	UBUNTU/windows
Programming language	Java/Kotlin
Software	Android studio
Database	SQLite

Table 2.2: Software Requirements

2.3 Functional Requirements

- **User Registration:-** Allow users to create an account by providing basic information such as name, email address, and password.
- **Medication Schedule Management:-** The app should allow users to input their medication schedules, including the name of the medication, dosage instructions. Users should be able to add, edit, and delete medications as needed.
- **Reminder Notifications:-** The app should send timely reminders to users to take their medications according to their scheduled times.
- **Medication Tracking:-** The app should provide a mechanism for users to mark medications as taken once they have consumed them. This functionality helps users keep track of their medication schedule.

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2.4 Non Functional Requirements

- **Performance:-** The app should have fast response times, ensuring that reminders are displayed promptly to users and that the app operates smoothly without significant delays or lag.
- **Reliability:-** The app should be highly reliable, ensuring that reminders for medication are delivered consistently and accurately to users.
- **Scalability:-** The app should be designed to accommodate a growing user base and handle increased data storage and processing requirements without compromising performance or reliability.
- **Usability:-** The app should have a user-friendly interface that is intuitive and easy to navigate, allowing users to set up medication reminders effortlessly and access information about their medications without confusion.
- **Security:-** The app should prioritize the security and privacy of users' medical information, employing encryption and robust authentication measures to protect sensitive data from unauthorized access or breaches.

Chapter 3

Proposed Methodology

This chapter explains details of methodology being used in software development.

The Medicine Reminder App utilizes a simple yet effective methodology to ensure timely medication adherence. Upon installation, users input their medication schedules, including medicine name and dosage and. The app then sets up personalized reminders based on the user's preferences, such as push notifications or alarms. These reminders are triggered at the designated times, prompting users to take their medication. The app also tracks medication history. By combining user input, personalized reminders, and tracking mechanisms, the medicine reminder app promotes medication adherence and helps users maintain their health and well-being.

3.1 Summary

The proposed methodology for implementing the Medicine Reminder App enhance medication adherence through a comprehensive set of features.users input their medication schedules. Personalized reminders are then generated based on user preferences. These reminders are triggered at designated times to prompt users to take their medication. To further support adherence, the app includes tracking mechanisms, allowing users to track their progress and identify any missed doses. This feature can help users stay accountable and motivated in their medication routines. By combining user input, personalized reminders, tracking mechanisms, and additional features, the medicine reminder app aims to empower users in maintaining their health and medication routines.

Chapter 4

Design

Medicine Reminder App designed to ensure optimal adherence to medication schedules. With its sleek and user-friendly interface, it simplifies the process of managing medications, empowering users to take control of their health. The app allows users to input their medication details, including dosage, frequency, and duration, and sets customizable reminders to notify them when it's time to take their medicine. Additionally, it provides comprehensive medication information, including potential side effects and interactions, offering users valuable insights to make informed decisions. With it, staying on track with medications has never been easier, promoting healthier and more compliant. lifestyles. The main objective during the input design is as given below:

Add Medicines: The user has to add the medicine and its details.

Add Reminder: The user can add reminders when it is time to take medicines.

View/Update Time: The user can view and update the medication schedule.

View/Update Reminders: The user can view and update the reminder details.

4.1 Data flow diagram

A Data Flow Diagram (DFD) is a graphical representation of the flow of data within a system. In the context of a Medicine Remainder App, the DFD provides an overview of how data moves through various processes and entities within the system. Here is an example of the information that can be included in a DFD for Medicine Reminder App.

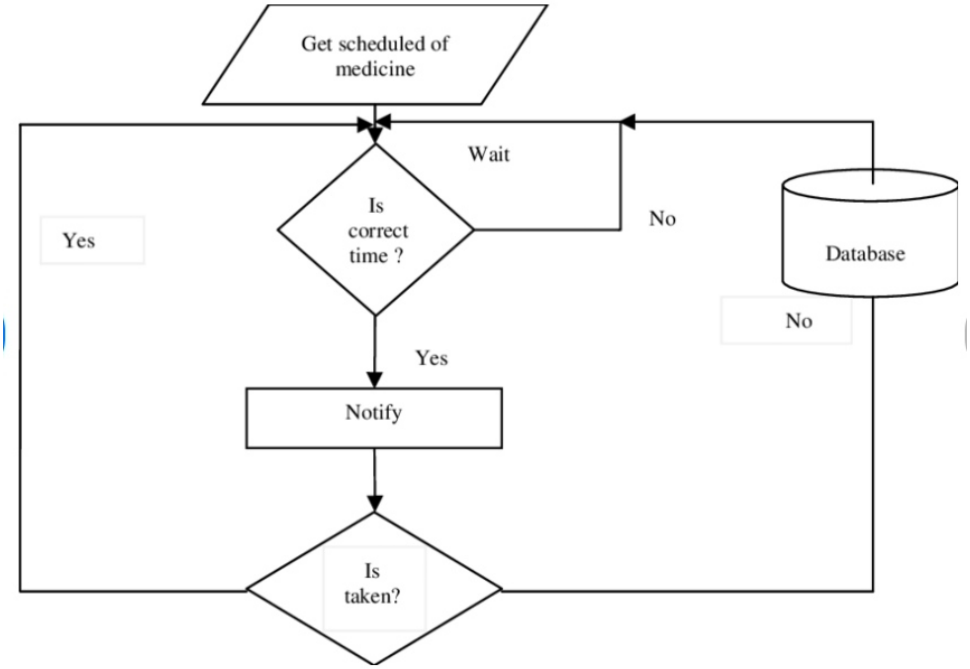

Figure 4.1: Flow Chart diagram

4.2 Summary

In the design involves the illustrates the flow of information. It involves users inputting their medication schedule, the app sending reminders, and users confirming medication intake, ensuring timely and accurate medication management.

Chapter 5

Implimentation

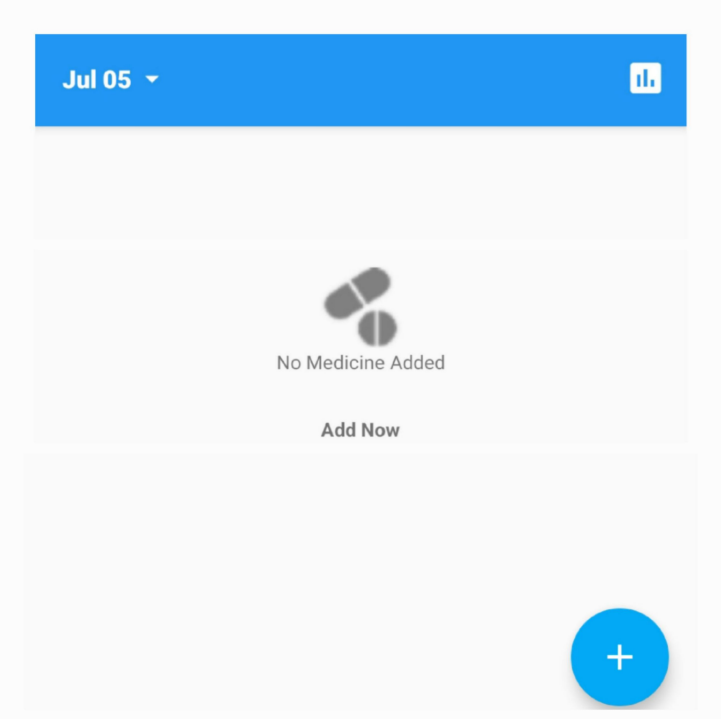

Figure 5.1: Home Page

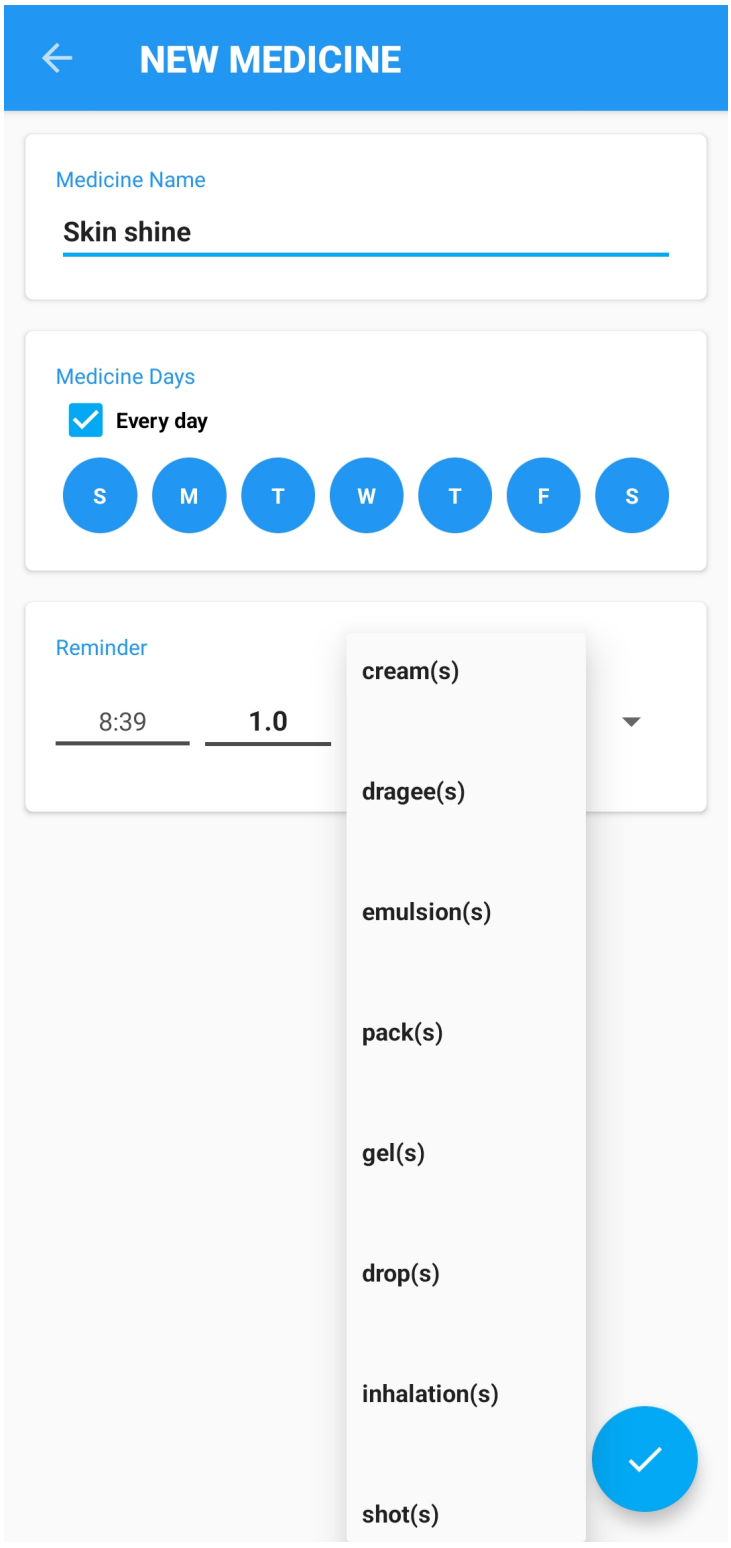

Figure 5.2: Add New Medicine

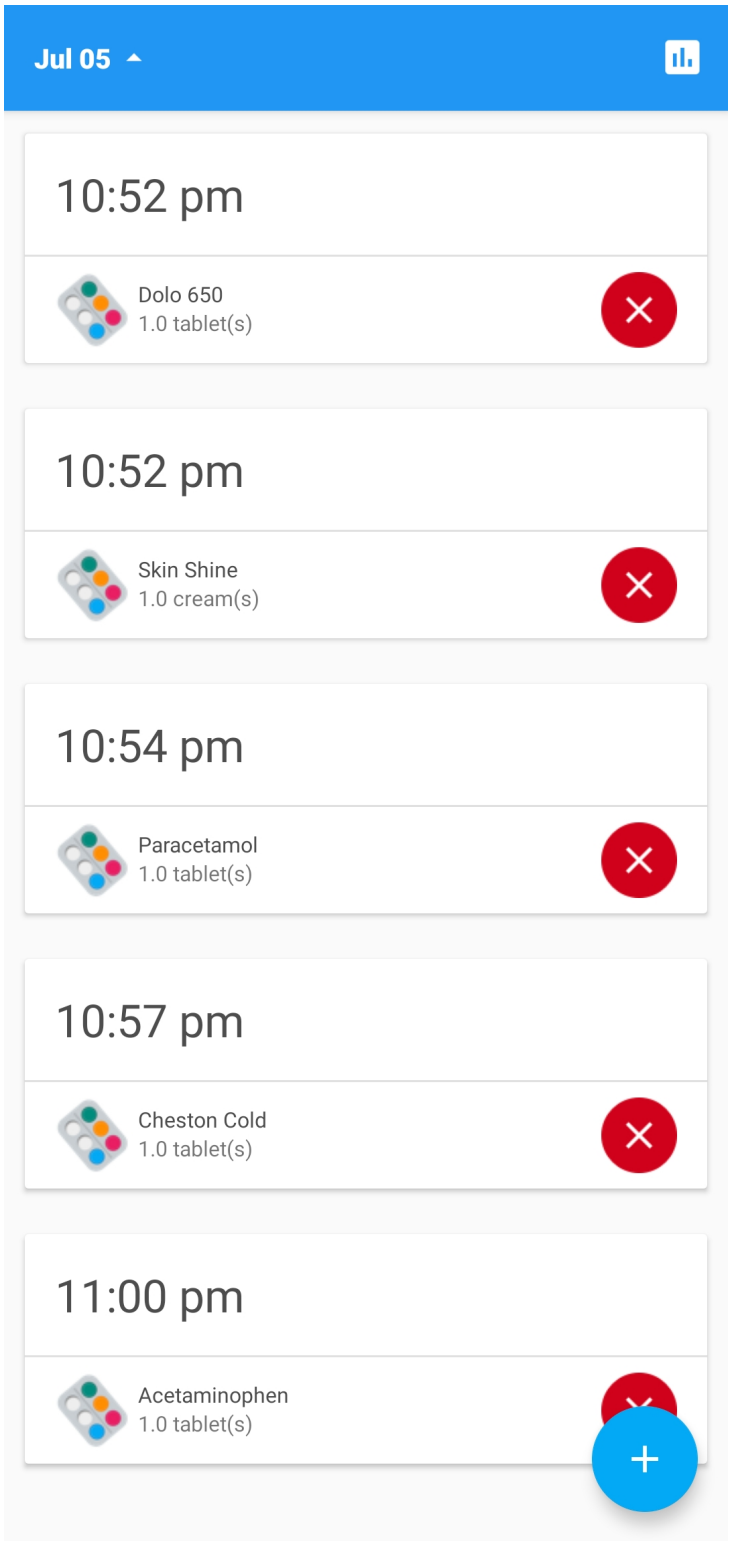

Figure 5.3: Medication Schedules

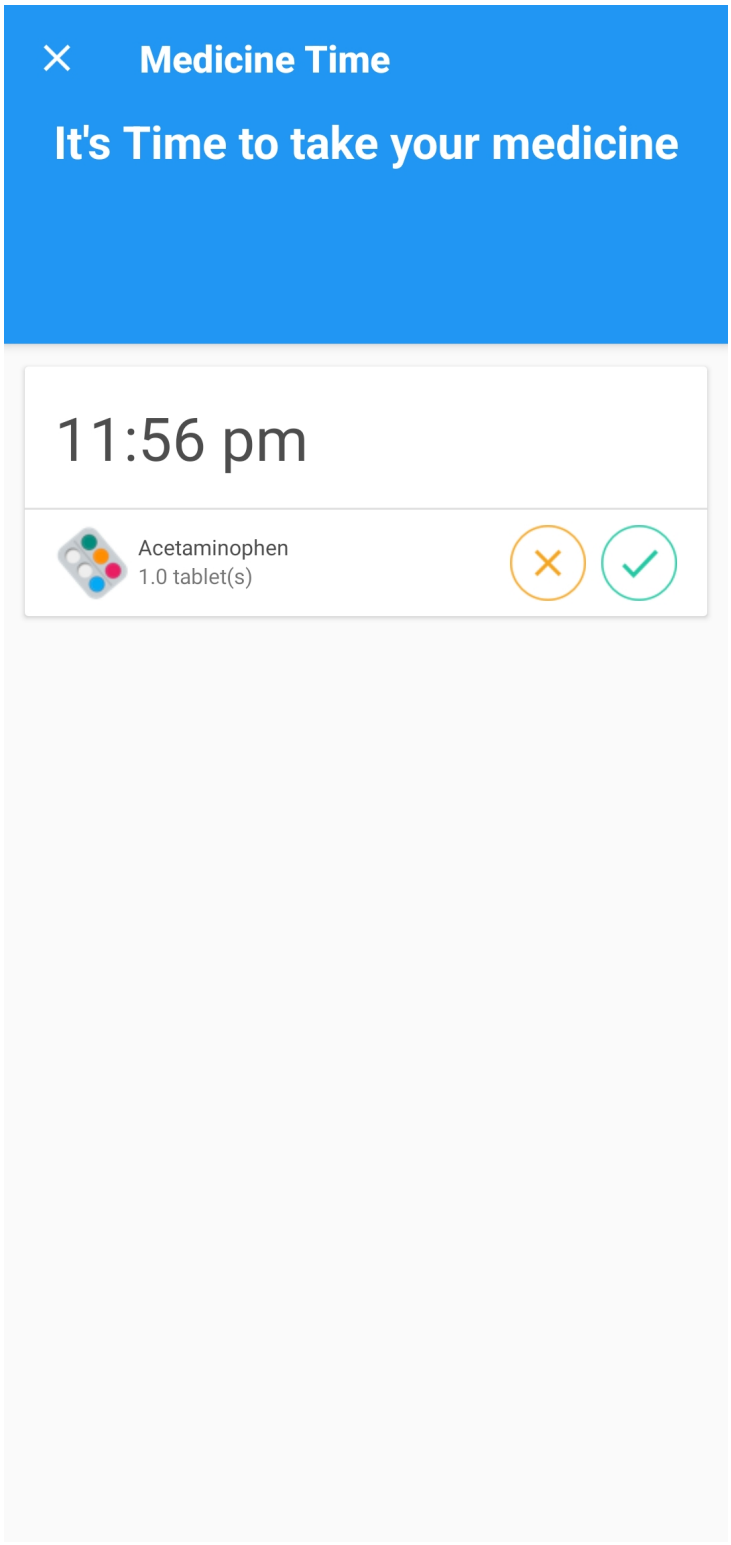

Figure 5.4: Medicine Remainder Page

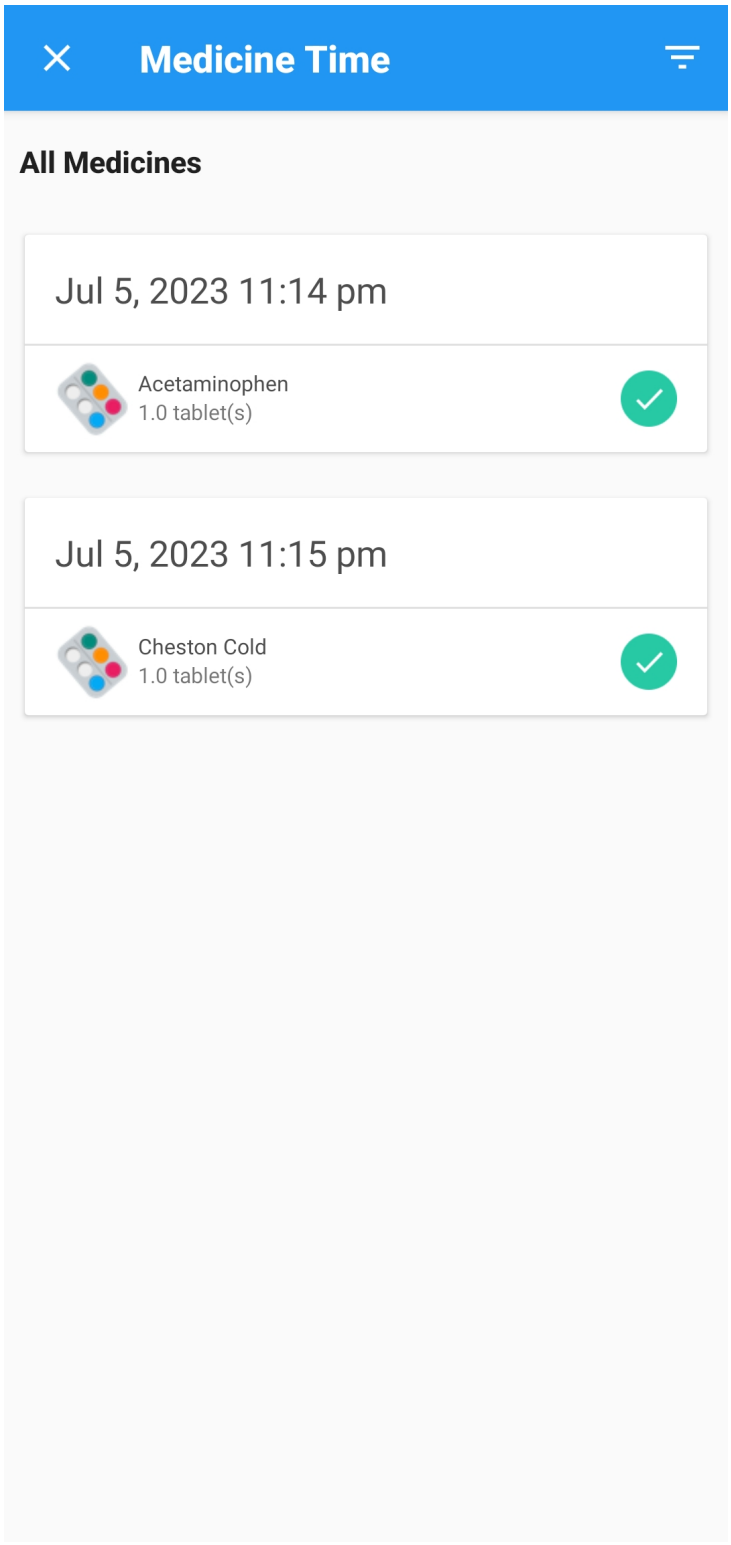

Figure 5.5: Medicine History

5.1 Summary

In this chapter, the interfaces of the system that help the user to interact with the system. Other than PHP language, JavaScript language for web-based system is used to develop this system. Besides that, the testing approach is the methods that are used for test the functional and non-functional of the system for each main module on the system by using test case.

Chapter 6

Conclusion

In conclusion, the medicine reminder Android app project aims to provide a user- friendly tool to help users manage their medication schedules effectively, reduce the risk of missed doses or overdoses, and ultimately improve health outcomes. The project has several objectives, including providing medication information, sending reminders, tracking medication history, and ensuring user privacy and security.

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