

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one in front of the green one.

Health Care Reminder

Software Engineering Project

Group Members

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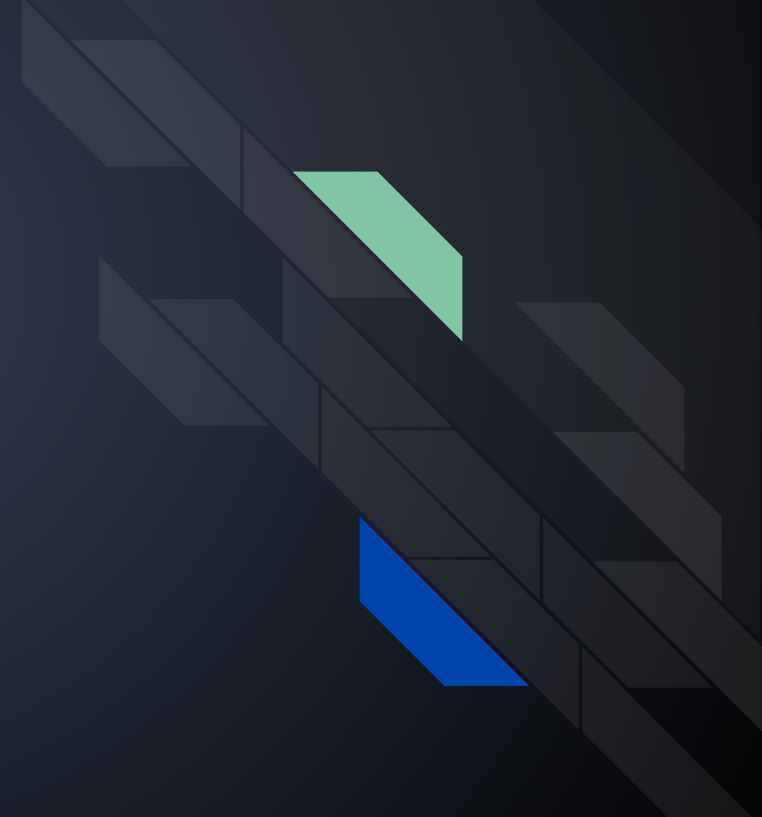
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Project Objective

To develop an android app to help individuals to set reminders for their health related activities such as:

- Medicine doses
- Exercise timings
- Water intake
- Other individual's specific reminders.





Functional Requirements

1. The system should be able to take input from user which includes the type of reminder i.e. water, exercise, medicine and general reminders.
2. Then further according to the type of reminder the system asks for time and other details of reminder.
3. The system must be able to synchronize with the device's clock and must display notification whenever the time in database matches that of the device.
4. System should be able to run in background so as to show the notification at desired time.



Tools and Technologies Used :

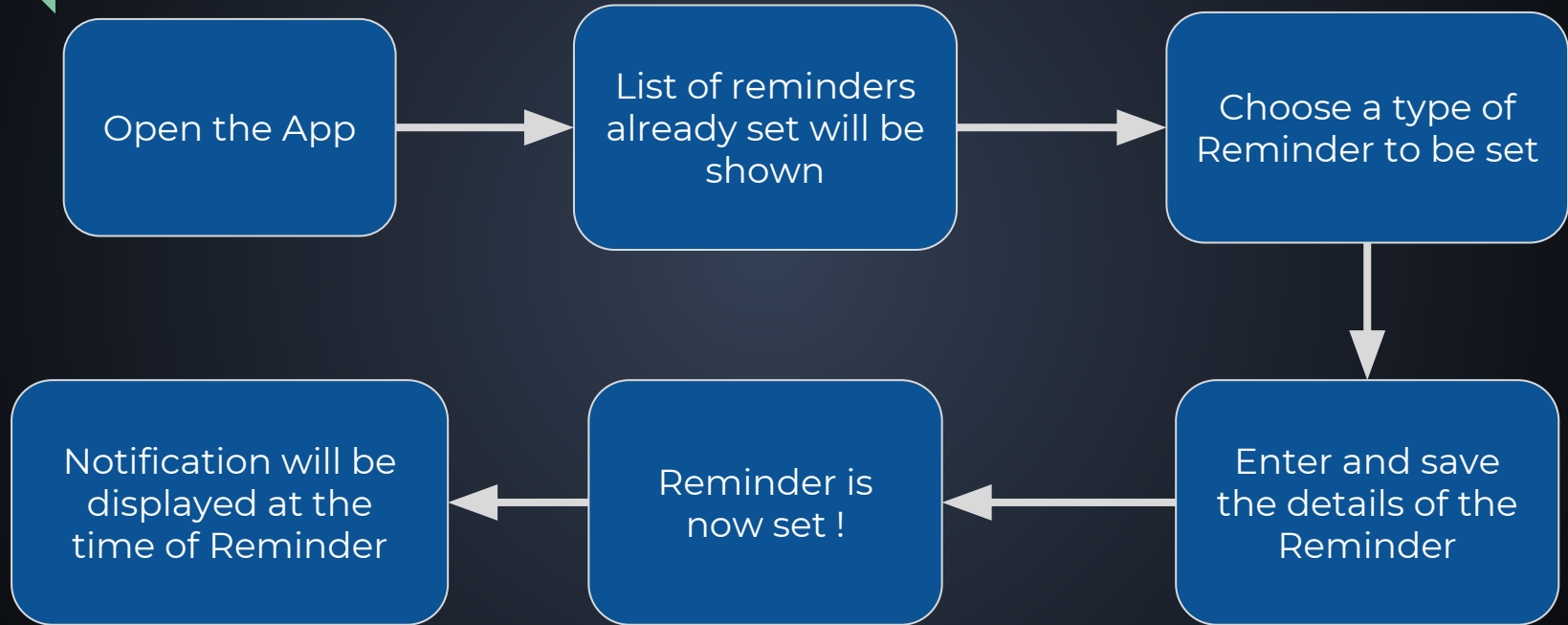
- IDE - Android Studio
- Front end - XML, Java
- Back end - SQLite, Java
- SQLiteManager - add on in Mozilla Firefox
- Android Phone



Database Design

Table Name	Attributes
hcr_table	ID, Type, ReminderID, Date, Time
water_table	ID, Start Time, End Time, Interval
exercise_table	ID, Name, Date, Time, Frequency
medicine_table	ID, Name, Date, Time, Frequency, DayFreq, Interval
general_table	ID, Name, Date, Time, Frequency

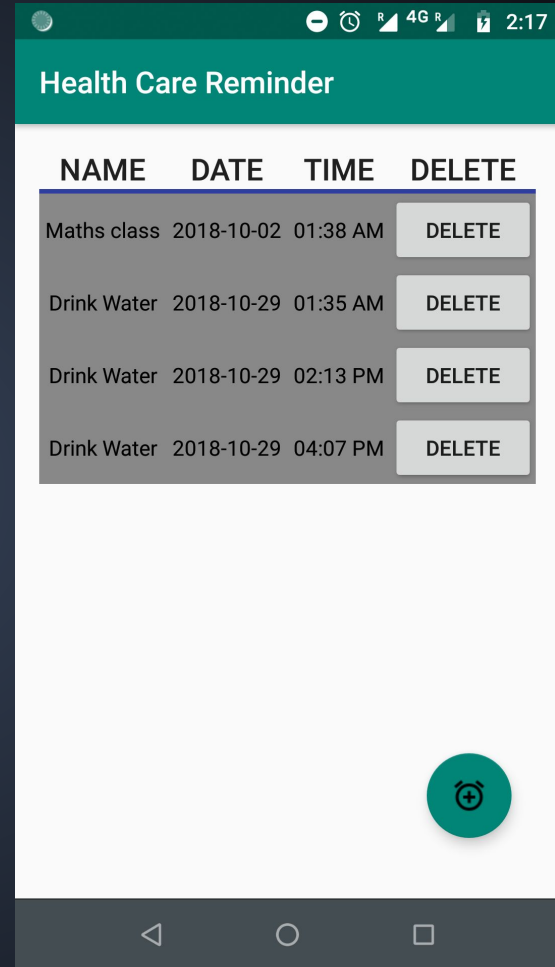
How to use the Application ..



Screenshots..



View page of all
Reminders :




Medicine Reminder :

Health Care Reminder


Name

Name of the medicine

Date

mm/dd/yyyy 


Time

00:00 

Frequency


0

Interval

00:00 

Health Care Reminder

Interval

00:00 

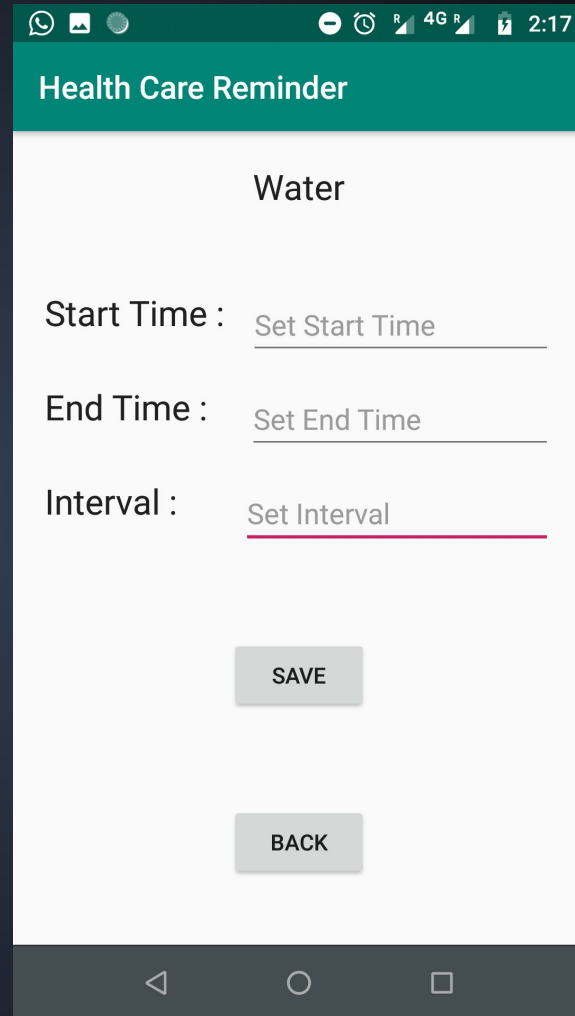
Day Frequency

0

ADD

BACK

Water Reminder :



The image shows a mobile application interface for a 'Health Care Reminder'. The app has a teal header bar with the title 'Health Care Reminder'. Below the header, the word 'Water' is centered. There are three input fields: 'Start Time' with a placeholder 'Set Start Time', 'End Time' with a placeholder 'Set End Time', and 'Interval' with a placeholder 'Set Interval'. The 'Interval' field is highlighted with a pink underline. At the bottom, there are two buttons: 'SAVE' and 'BACK'. The status bar at the top shows various icons and the time '2:17'.

Health Care Reminder

Water

Start Time : Set Start Time

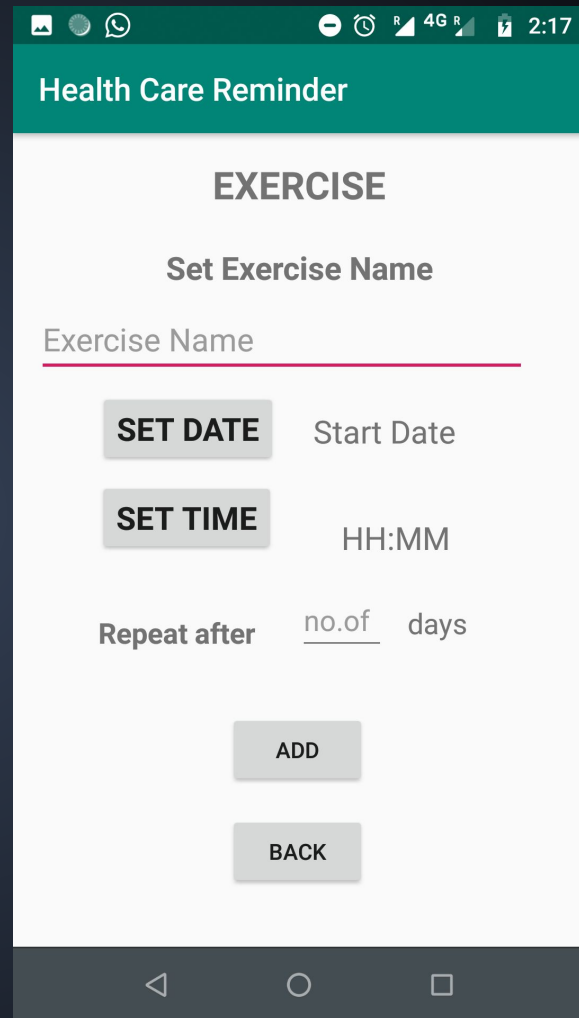
End Time : Set End Time

Interval : Set Interval

SAVE

BACK

Exercise Reminder :



The image shows a mobile application interface for a 'Health Care Reminder'. The app has a teal header bar with the title 'Health Care Reminder'. Below the header, the word 'EXERCISE' is displayed in bold. The main section is titled 'Set Exercise Name'. It features a text input field for 'Exercise Name' with a pink underline. Below this, there are two buttons: 'SET DATE' and 'SET TIME'. The 'SET DATE' button is followed by the text 'Start Date', and the 'SET TIME' button is followed by the text 'HH:MM'. There is also a label 'Repeat after' followed by a text input field for 'no.of' and the word 'days'. At the bottom of the form, there are two buttons: 'ADD' and 'BACK'. The app is running on an Android device, as indicated by the navigation bar at the bottom.

Health Care Reminder

EXERCISE

Set Exercise Name

Exercise Name

SET DATE Start Date

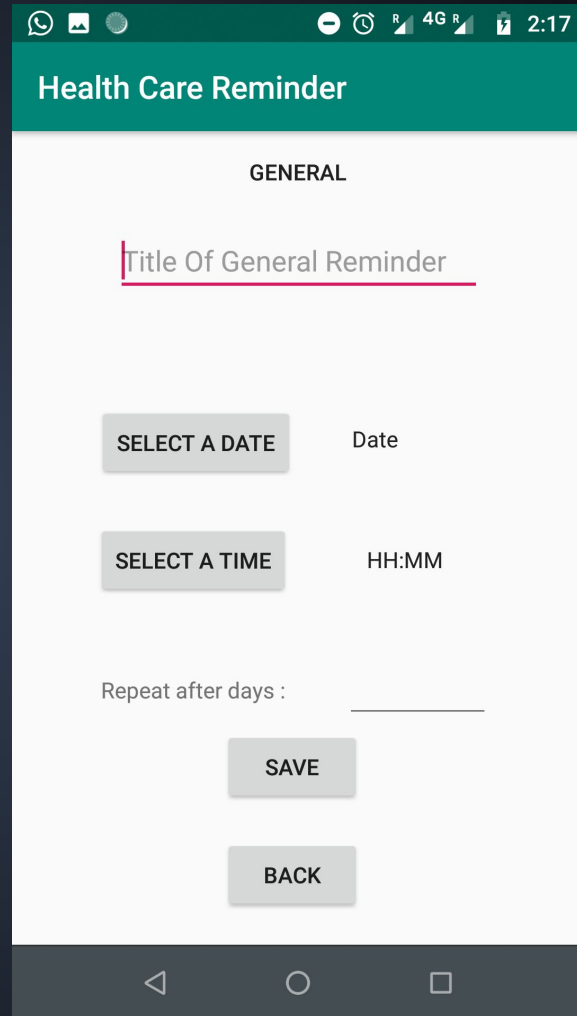
SET TIME HH:MM

Repeat after no.of days

ADD

BACK

General Reminder :



The image shows a mobile application interface for a 'Health Care Reminder'. The app has a teal header bar with the title 'Health Care Reminder'. Below the header, the section is titled 'GENERAL'. There is a text input field for the 'Title Of General Reminder'. Below this, there are two rows of date and time selection: 'SELECT A DATE' next to 'Date' and 'SELECT A TIME' next to 'HH:MM'. Further down, there is a label 'Repeat after days :' followed by a horizontal line for input. At the bottom, there are two buttons: 'SAVE' and 'BACK'. The status bar at the top shows various icons and the time '2:17'.

Health Care Reminder

GENERAL

Title Of General Reminder

SELECT A DATE Date

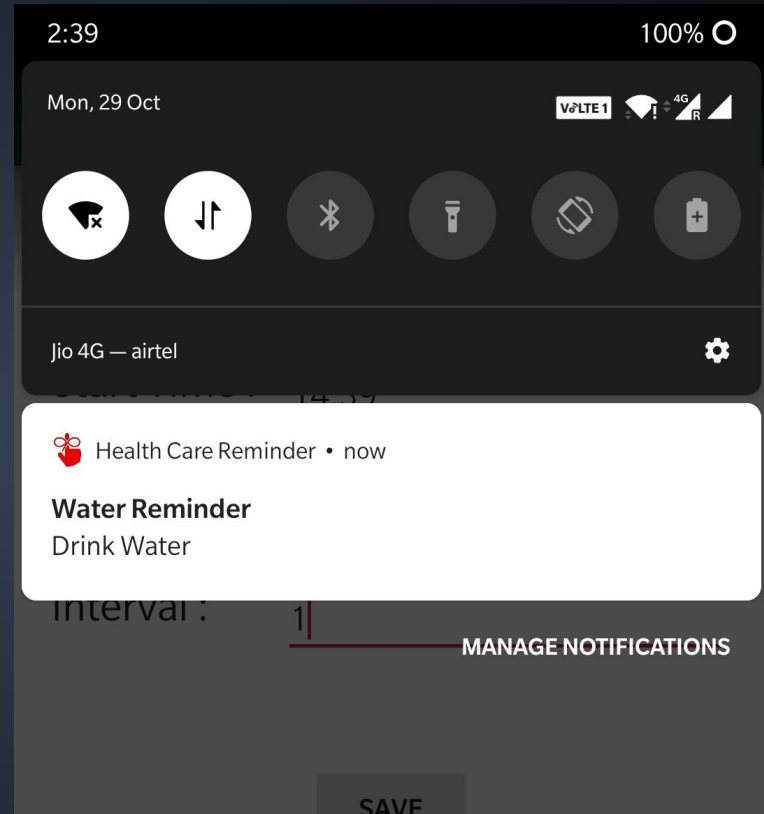
SELECT A TIME HH:MM

Repeat after days : _____

SAVE

BACK

Notification of Reminder :



Internal Workflow





Setting Reminder-

Once the reminder details are entered by the user, the corresponding methods are executed in the backend and data is stored in corresponding tables in the database.

Functions and Methods used-

- DatabaseHelper()
- SQLiteOpenHelper()
- InsertData()



Viewing all Reminders

- All the set reminders can be viewed on Main page of the app. Cursor is used for this purpose. The reminders are displayed in sorted order (by date).
- The Rows from Database Table are saved in an ArrayList, and then with use of Cursor displayed on the screen.
- Delete Option is also provided to delete the reminder.



Push Notifications

- With the Help of Sensor Service ,Android app is run in background even when the app is closed.
- Using TimeTaker function (in-built) ,the database is checked for a match of date and time.
- When found,the notification is created and displayed on screen with all the required details.

THANK YOU !

