

THE UNIVERSITY OF TEXAS AT ARLINGTON

CSE-6324 ADVANCED TOPICS IN SOFTWARE ENGINEERING

PROJECT: PERSONAL HEALTH MONITORING SYSTEM



Personal Health Monitoring System aims to provide a service for users to track, maintain and edit their health records. This includes setting adding diet information, tracking vital signs, adding medications, Appointments details and Setting Reminders for upcoming appointments.

TEAM 02

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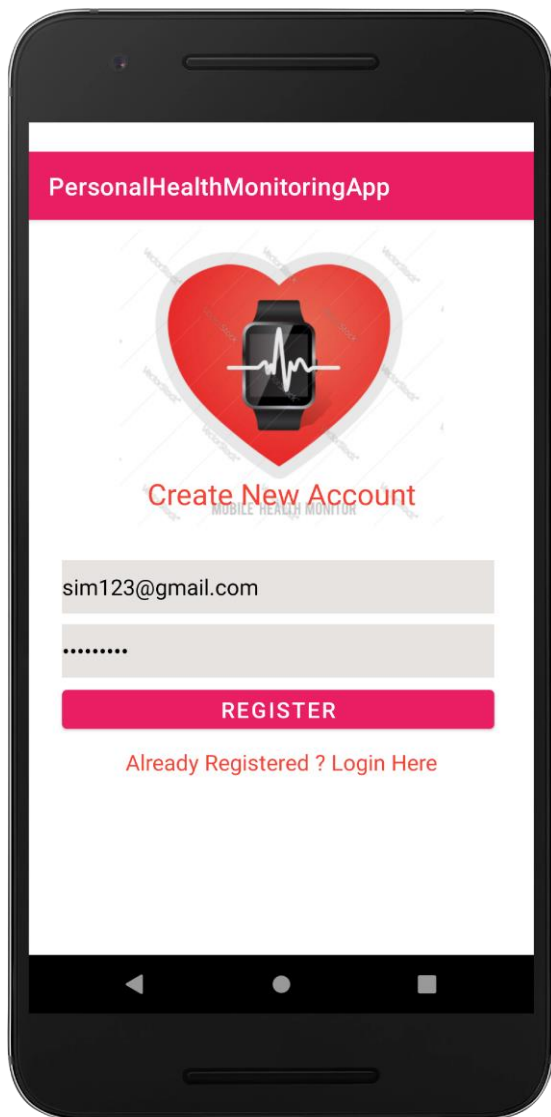
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PROJECT SUPERVISOR: PROFESSOR KHALILI BAHRAM

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Registration:

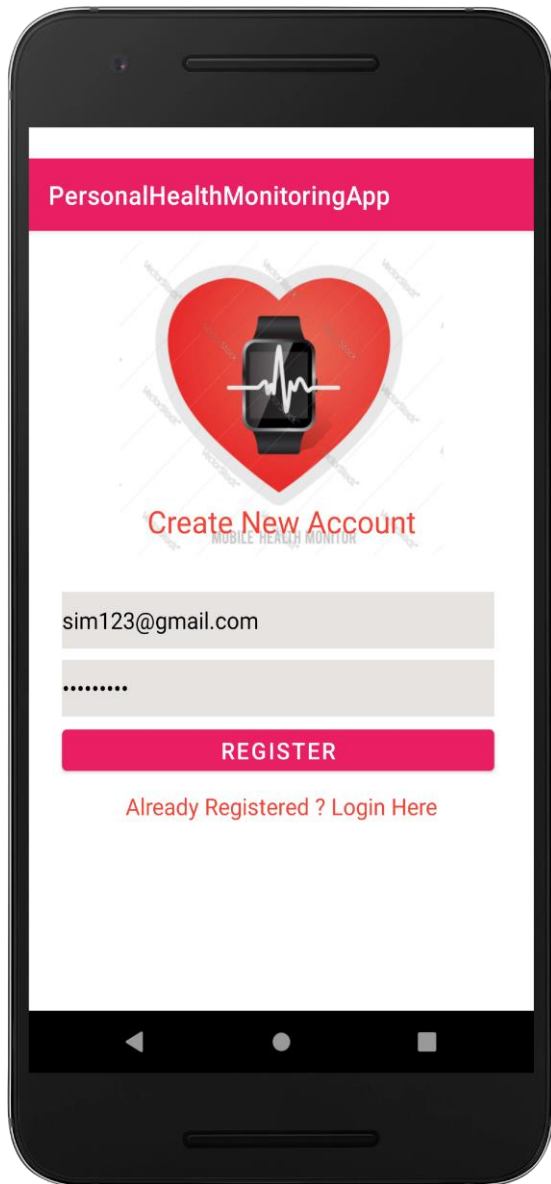


Creating an Account

On the “Create New Account page” insert information like E-mail and desired password

If you have already registered, click on the “Login Here” button

Log In



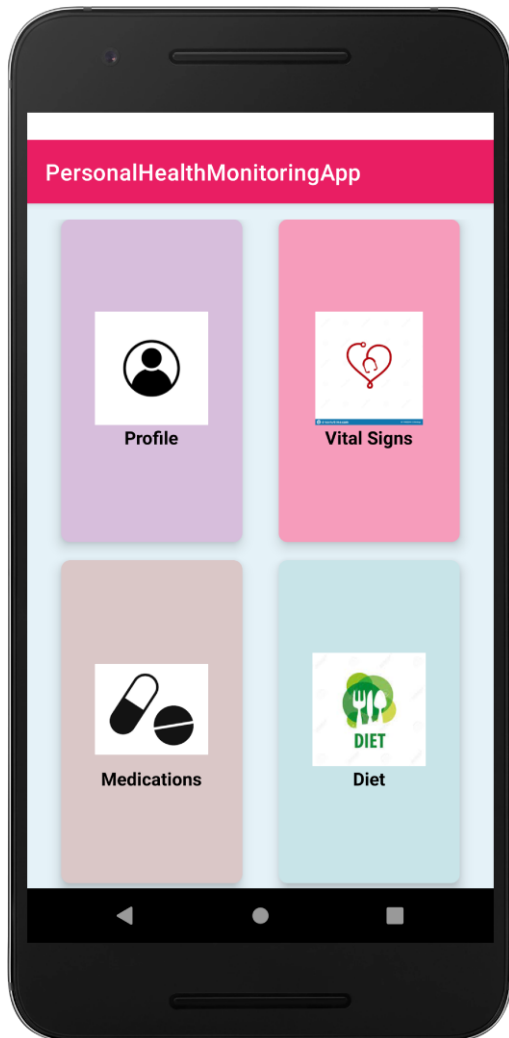
Logging In

If you have already created an account, Input your E-mail and Password to login

If you are a new user, click on the “Create Account” button for registration

If you have forgotten the password, click on the “Reset Password” button

Home Screen- 1

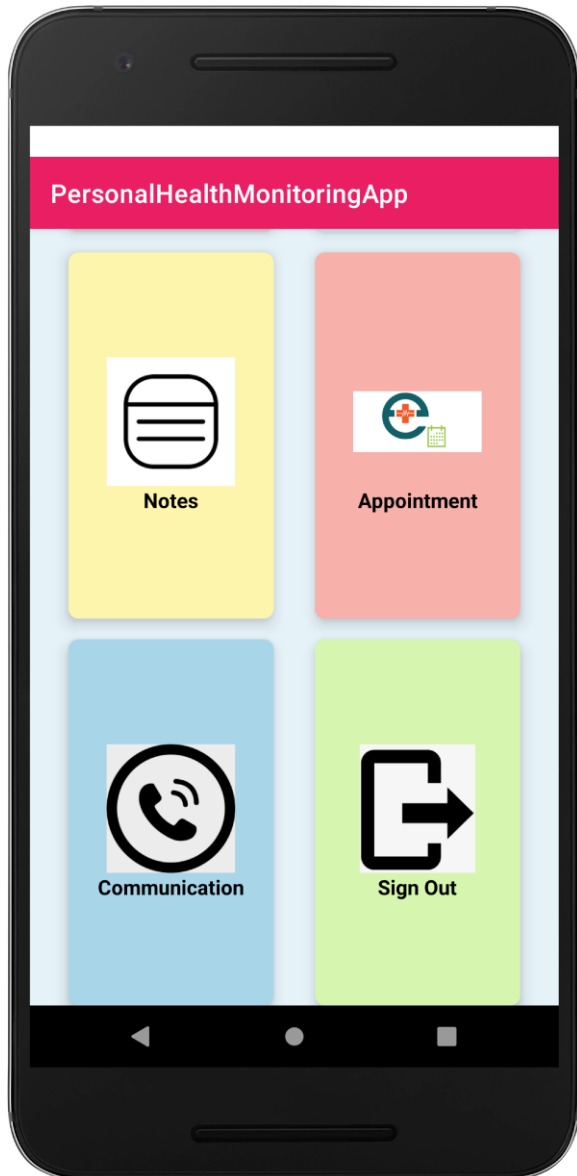


As From, the 'Home' Screen, you can access
y your profile, keep track of vital signs,
Keep track of past and current
medications and get recommended diets
ba based on the health condition
ep

fa

Home Screen-2

As

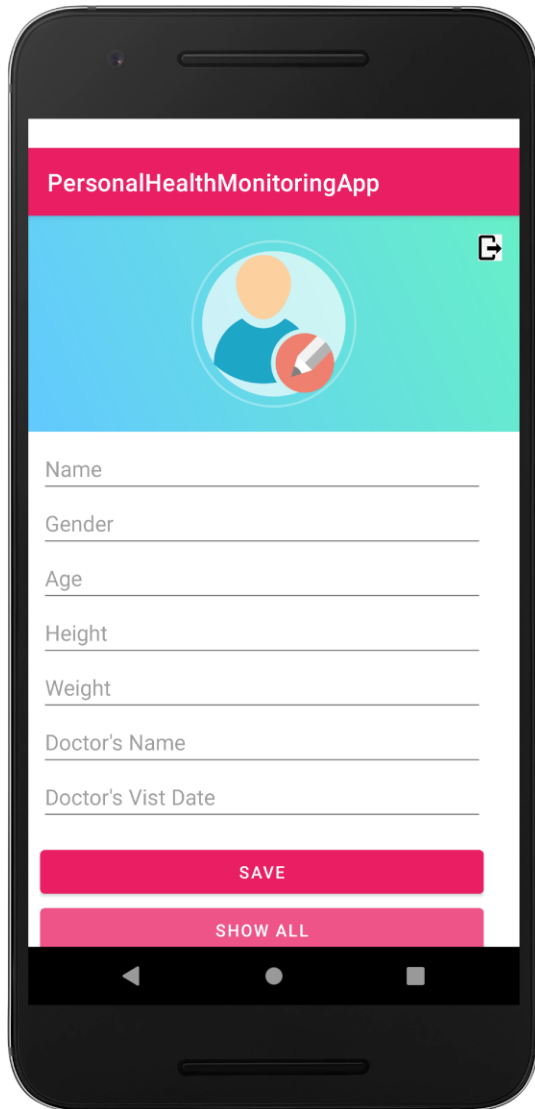


As Home


Sd Also from the “Home” Screen, you can create no notes, make an appointment, save contact in information of the doctor visit

A If you want to log out from the app, click on the “Sign Out” button in the home screen

Profile Screen



PersonalHealthMonitoringApp



Name

Gender

Age

Height

Weight

Doctor's Name

Doctor's Visit Date

SAVE

SHOW ALL

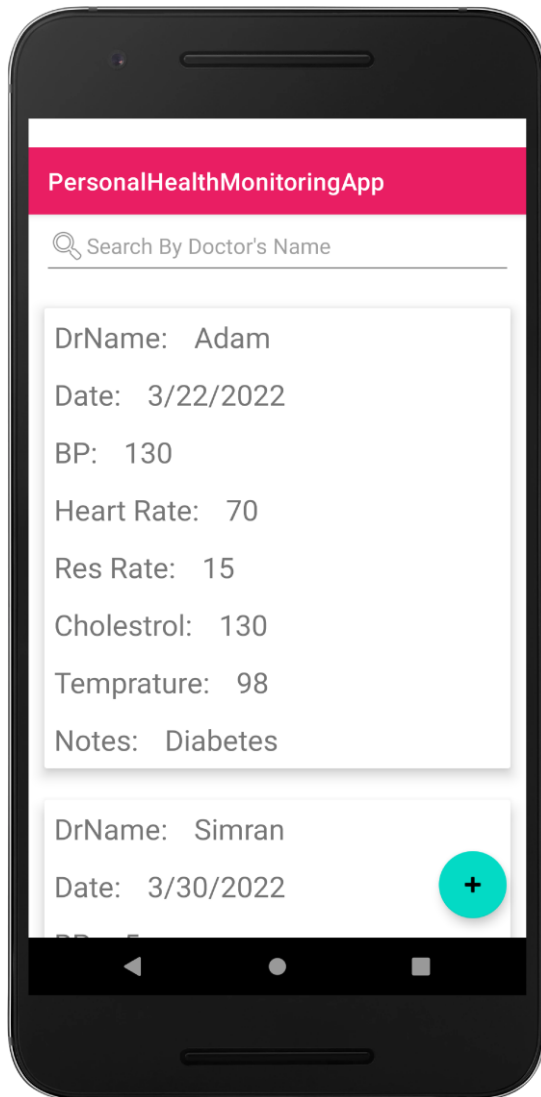
cli You can enter your profile details by clicking on the “profile” button on the home screen

asd Click on the “Save” button to save the record

As you can view the details entered by clicking on the “Show All” button

asd
file

Vitals Screen

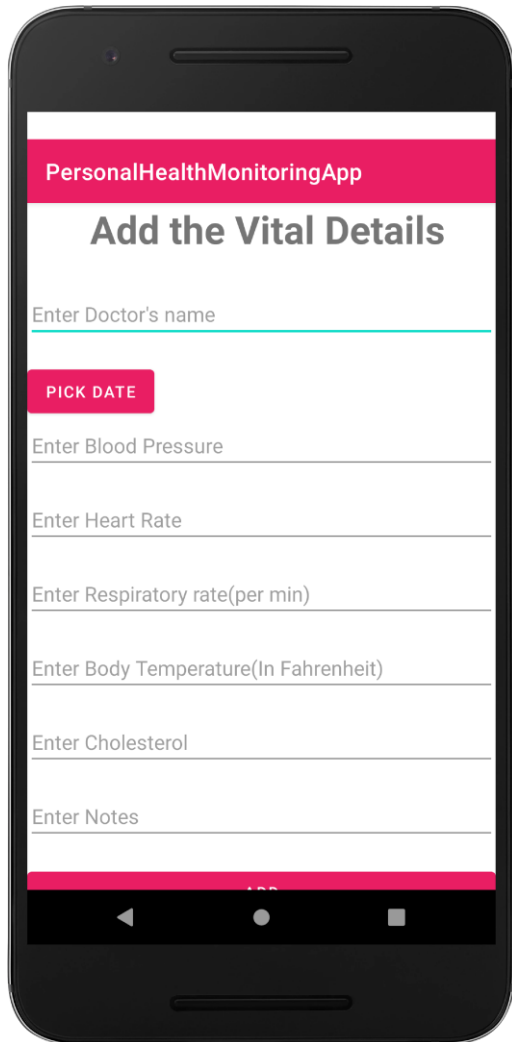


You can keep register your vital signs and keep track of the past and current vital signs

Enter the correct details for the vitals and click on the 'Add' button to save the record

Add Vitals Screen

Se



PersonalHealthMonitoringApp

Add the Vital Details

Enter Doctor's name

PICK DATE

Enter Blood Pressure

Enter Heart Rate

Enter Respiratory rate(per min)

Enter Body Temperature(In Fahrenheit)

Enter Cholesterol

Enter Notes

ADD

User can enter the vitals details by clicking the “add” Symbol shown in the bottom right corner of the Vitals Screen

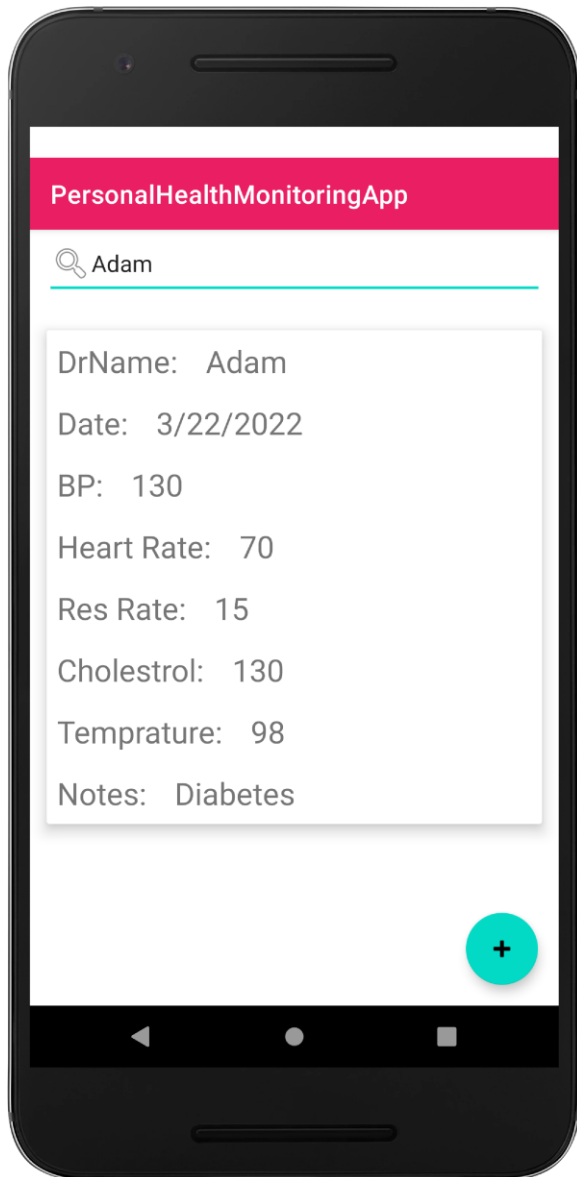
Add vitals by filling out Doctor’s Name, Date, Blood Pressure, Heart Rate, Respiratory rate, Body Temperature, Cholestrol

The user can add Notes if required.

Click on Add button to save the vitals information

B

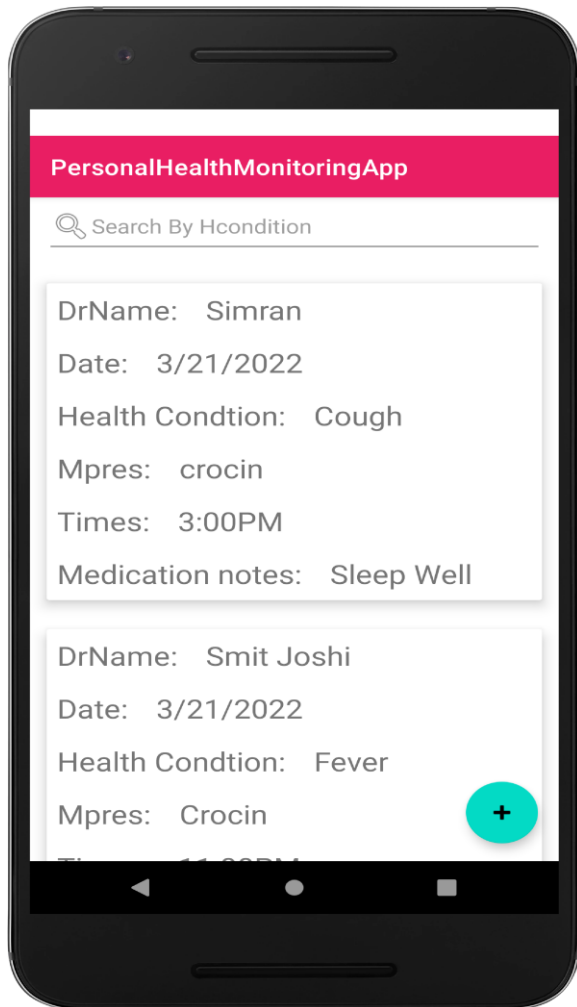
Search In Vitals Screen



Search

User can search vital information by doctor's name

Medication Screen

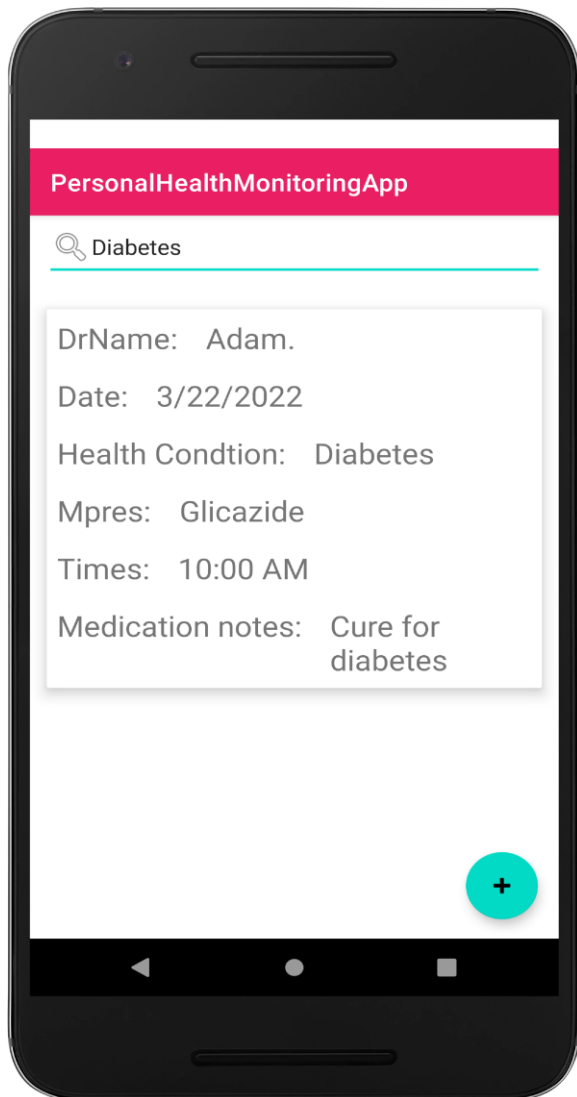


Medication

You can view the added medication on the medication screen

You can search for the medication by the health condition

Search in Medication Screen



Search

User can search Medication information by doctor's name

Add Medication Screen

PersonalHealthMonitoringApp

Enter medication details

Steve Harper

PICK A DATE 3/29/2022

Diabetes

Metformin

10:10 AM

Take a tablet after every dinner

ADD

Add Medication

User can enter the medication details by clicking the “add” Symbol shown in the bottom right corner of the Vitals Screen

Add medication by filling out Doctor’s Name, Date, Medicine prescription, Time of Consumption

The user can add Notes if required.

Click on Add button to save the vital information

Diet Screen

PersonalHealthMonitoringApp

VIEW FAQS LOGOUT

Weight: Pounds

Height : Ft Inch

Age:

Gender: ☒ Female ☐ Male

Health Conditions:

1 - Diabetes 2- Obesity

3 - Cancer 4- Heart disease

5-Osteoporosis

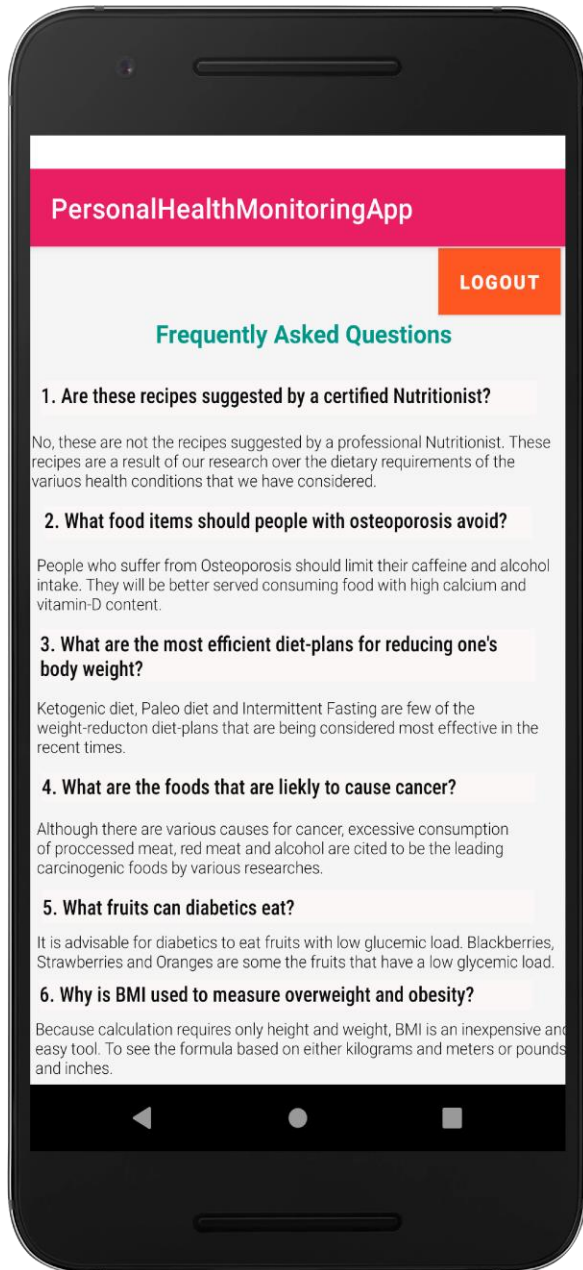
CALCULATE CLEAR

Find your diet plan

User can input his/her weight, height, Age, gender and health condition to find a diet plan according

This screen has other buttons like FAQs , Log out , Clear and Calculate

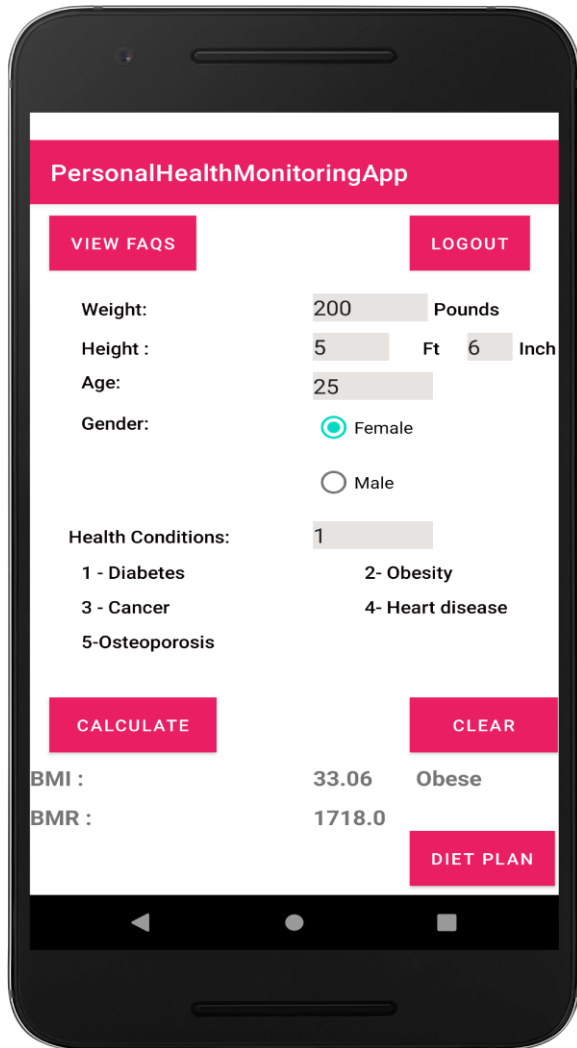
FAQS Screen



Frequently asked questions:

User can click on FAQs button on the Diet screen to view frequently asked questions in case of any doubts

Calculate BMI and BMR Screen



The screenshot shows a mobile application interface for calculating BMI and BMR. The app title is "PersonalHealthMonitoringApp". It features input fields for Weight (200 Pounds), Height (5 Ft 6 Inch), Age (25), and Gender (Female). There are also radio buttons for Male and Female, and a dropdown for Health Conditions (1). Below the inputs are buttons for "CALCULATE", "CLEAR", and "DIET PLAN". The results displayed are BMI: 33.06 (Obese) and BMR: 1718.0.

PersonalHealthMonitoringApp

VIEW FAQs **LOGOUT**

Weight: 200 Pounds
Height : 5 Ft 6 Inch
Age: 25
Gender: ☒ Female ☐ Male
Health Conditions: 1
1 - Diabetes 2- Obesity
3 - Cancer 4- Heart disease
5-Osteoporosis

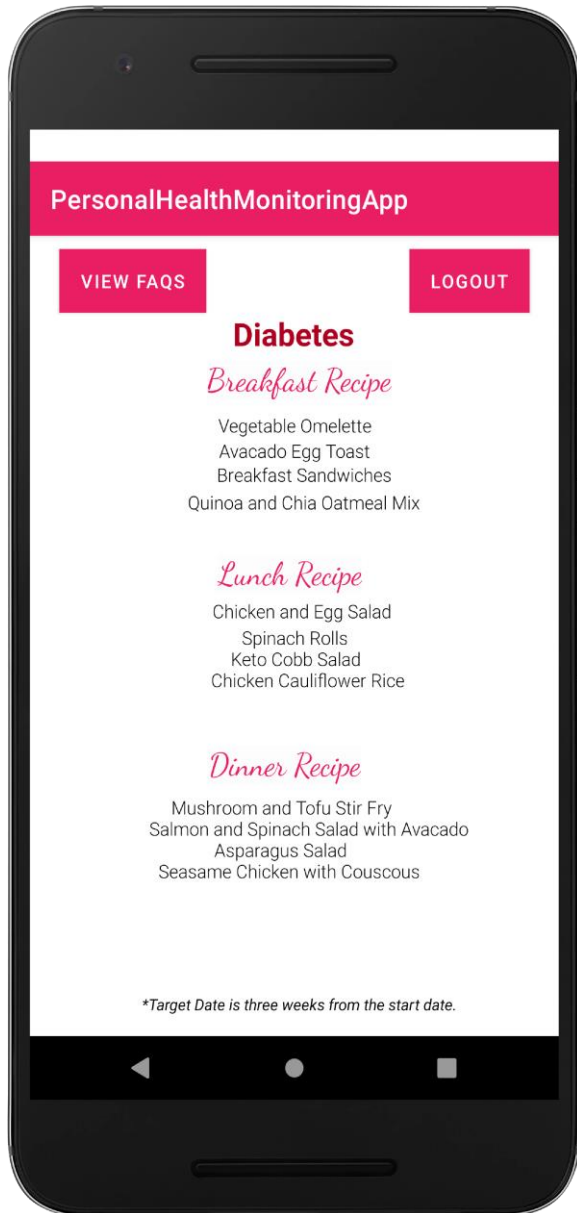
CALCULATE **CLEAR**

BMI : 33.06 Obese
BMR : 1718.0 **DIET PLAN**

Calculate BMI and BMR

Enter weight, height, Age,
gender and Health condition and
click calculate to see the BMI
and BMR

Diet Plan Screen

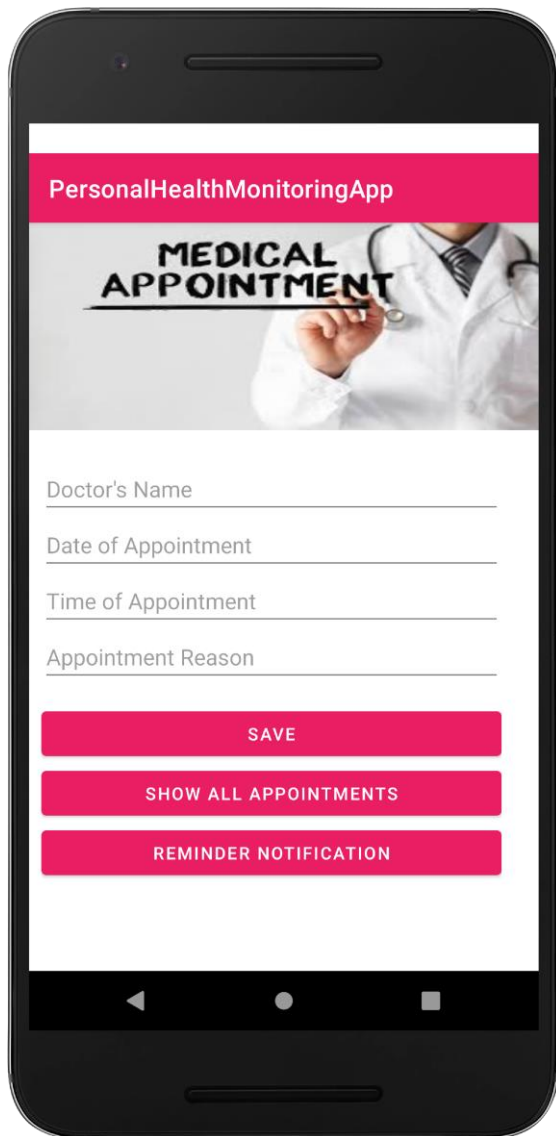


Diet Plan – Breakfast, Lunch and Dinner

Click on the Diet Plan button which is visible on Diet Plan Screen after calculating BMI and BMR.

The App will show the recommended diet.

Add Appointment Screen



PersonalHealthMonitoringApp

MEDICAL APPOINTMENT

Doctor's Name

Date of Appointment

Time of Appointment

Appointment Reason

SAVE

SHOW ALL APPOINTMENTS

REMINDER NOTIFICATION

Appointments

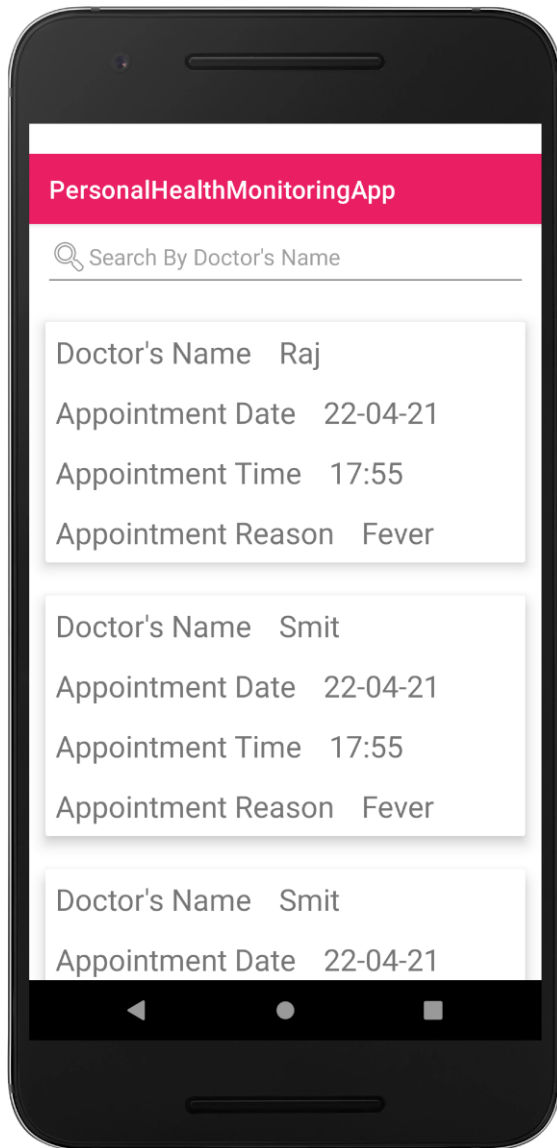
You can enter your doctor's appointment and keep track of previous and future appointments

Enter the fields Doctor's Name, Date and Time of Appointment and the appointment reason

Click on the "Save" button to save the appointment details

Click on the "Show All Appointments" button to view the history of appointment details

View all Appointments Screen



Show All Appointments

Click on “Show all Appointments” button on the appointments screen

History of appointment details can be viewed

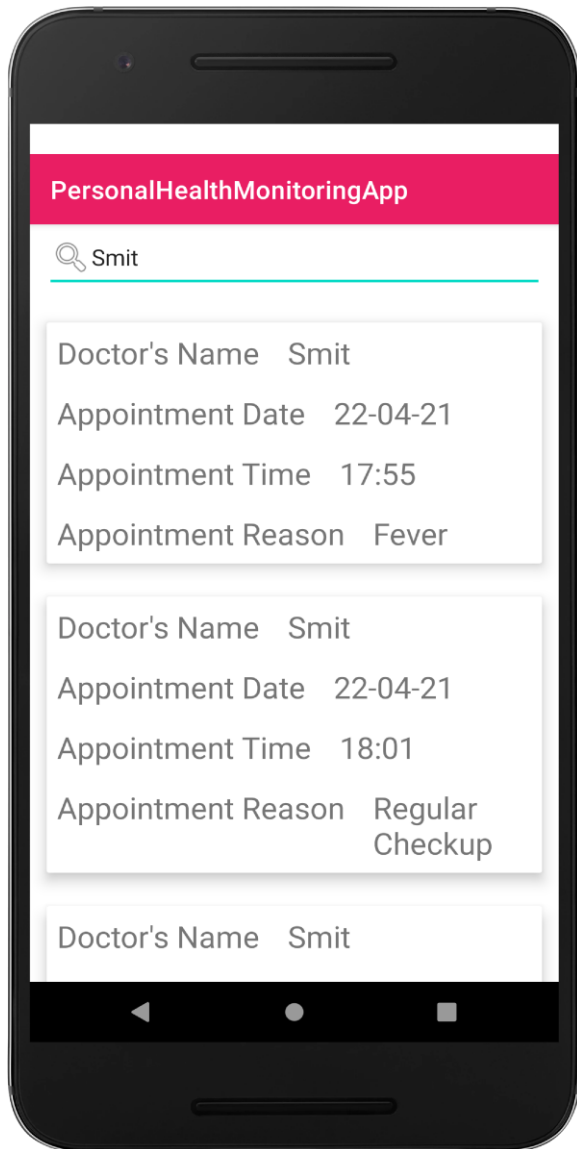
You can search for the history of appointment details by the doctor’s name

Right Swipe Appointment detail to delete the selected appointment

Left Swipe Appointment detail to update the selected appointment

Search Appointments

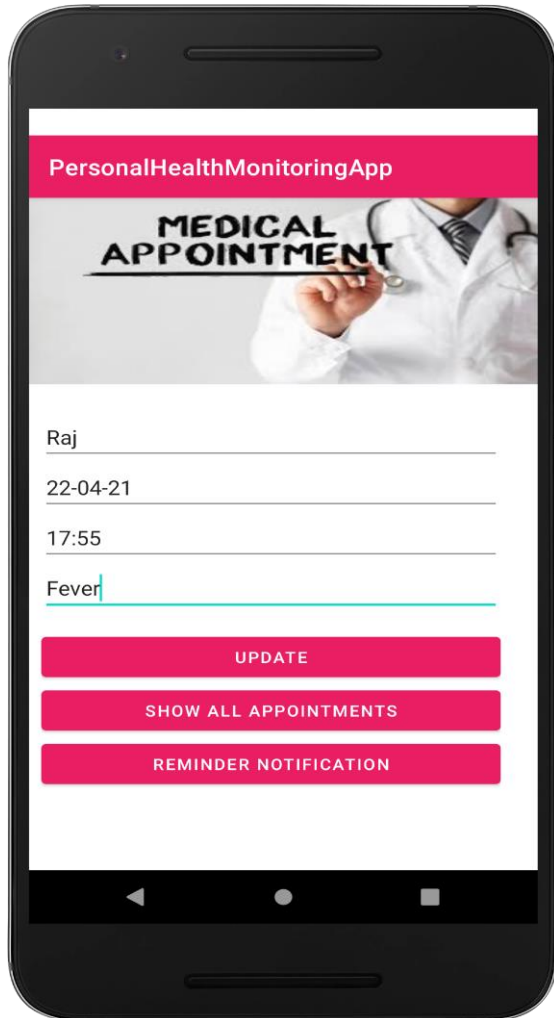
Screen:



Search Appointments by Doctor Name

User can search the Appointments by Doctor's Name

Update Appointment



Edit Appointment details

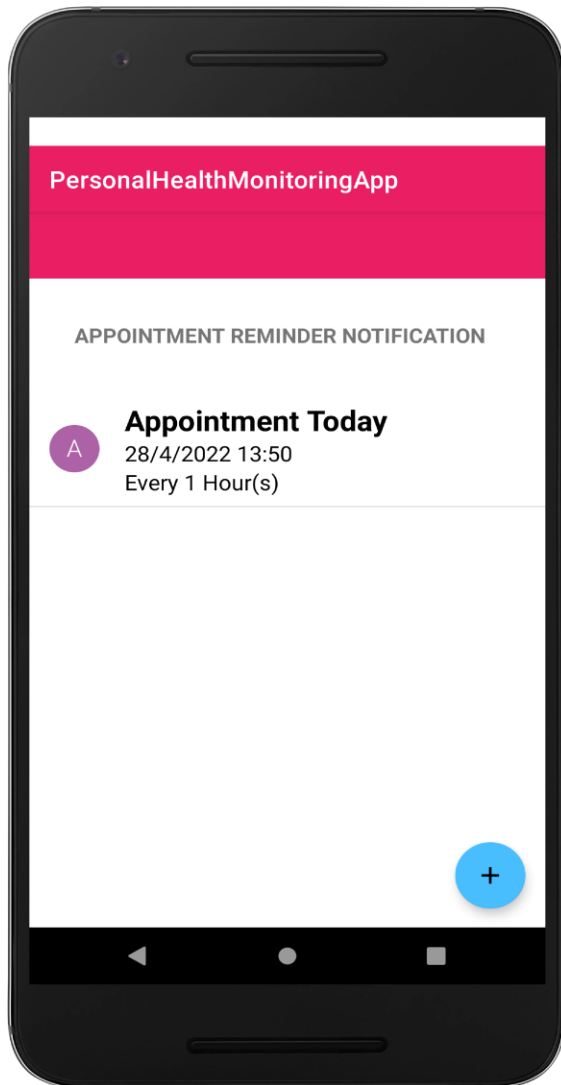
User can right swipe the Appointment details he/she is looking to edit.

The user will be navigated to this screen.

Modify the information and click on UPDATE button

Appointment details will be updated.

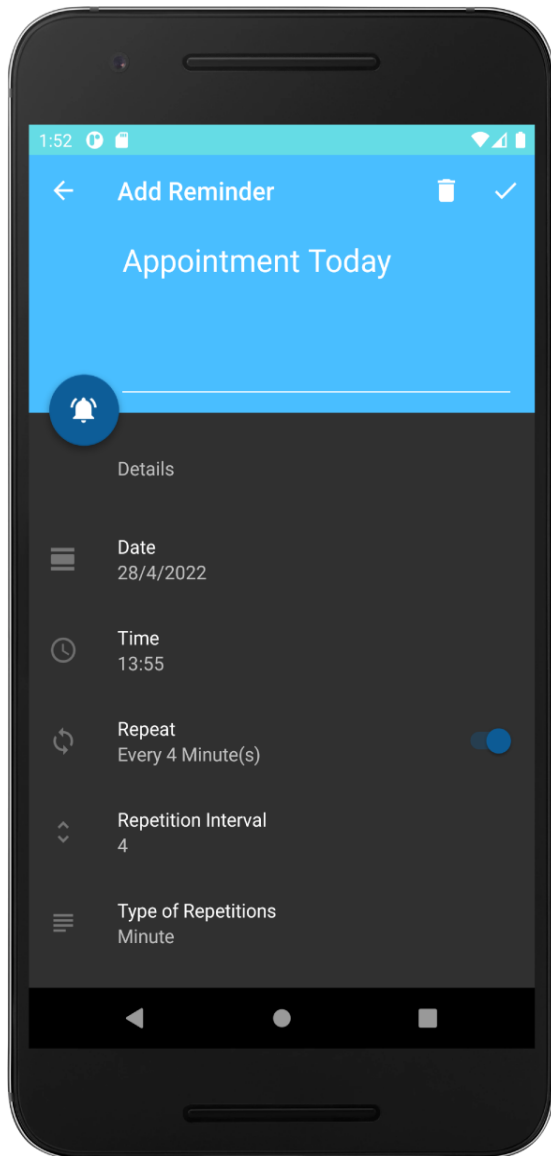
Notification Screen



User will be navigated to Notification Screen by Clicking on the REMINDER NOTIFICATION button on the Appointment screen.

“+” button can be clicked to add new reminders

Add Reminder:



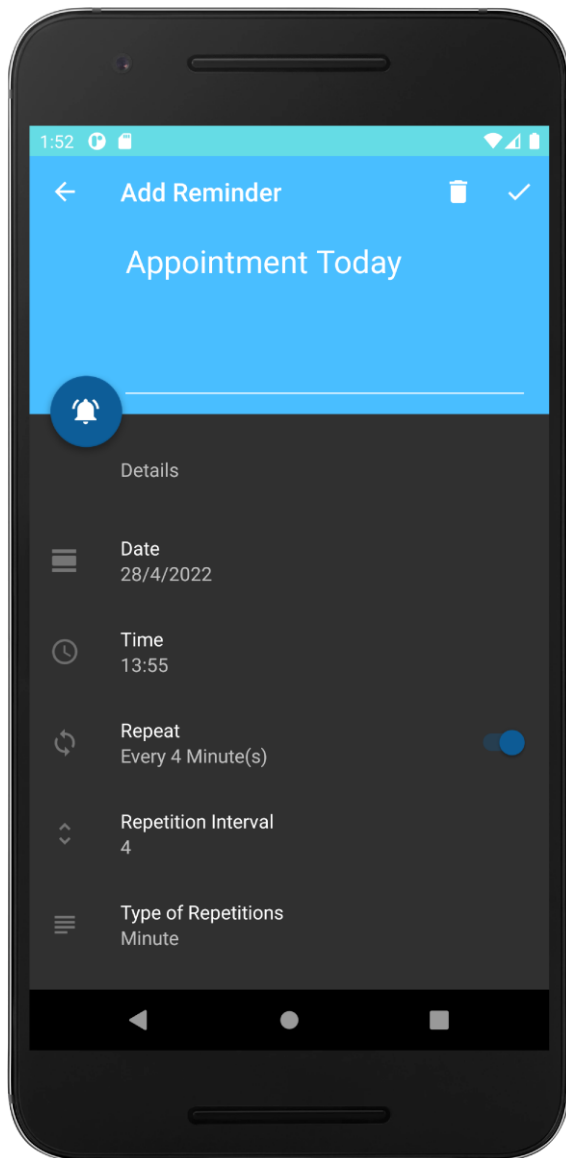
User can click on add button to add reminder

Enter all the required details like Title, Date, Time, Select Repeat options, Repetition Interval, Type of Repetitions

Click on the “right symbol” on the top right corner of the screen to Add reminder

User can click on the Notification icon on the screen to On and Off the sound of notification

Update Reminder Screen:

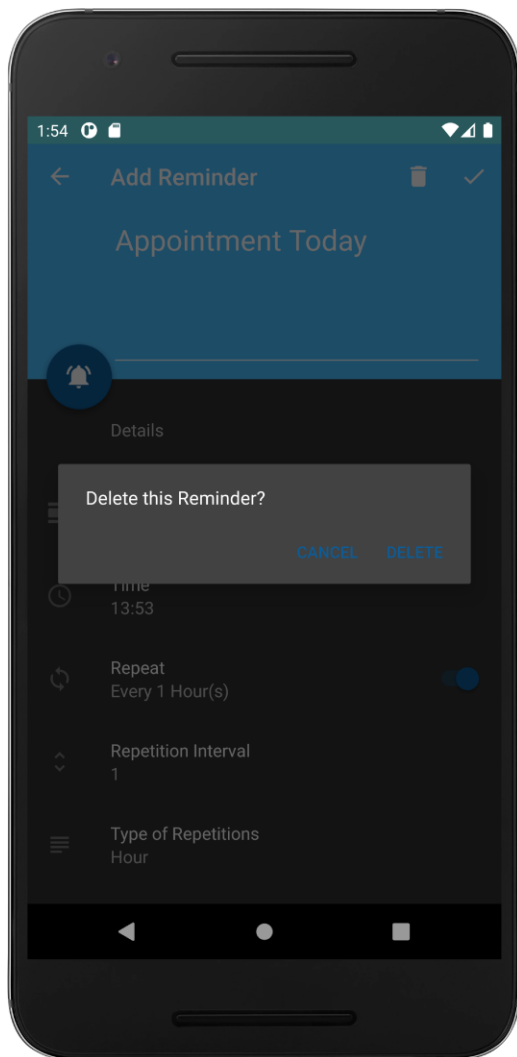


Edit Appointment details

Click on the Reminder which is already added on the Notification Screen to edit the Reminder details

Click on the “right symbol” on the top right corner of the screen to Add reminder

Delete Reminder:

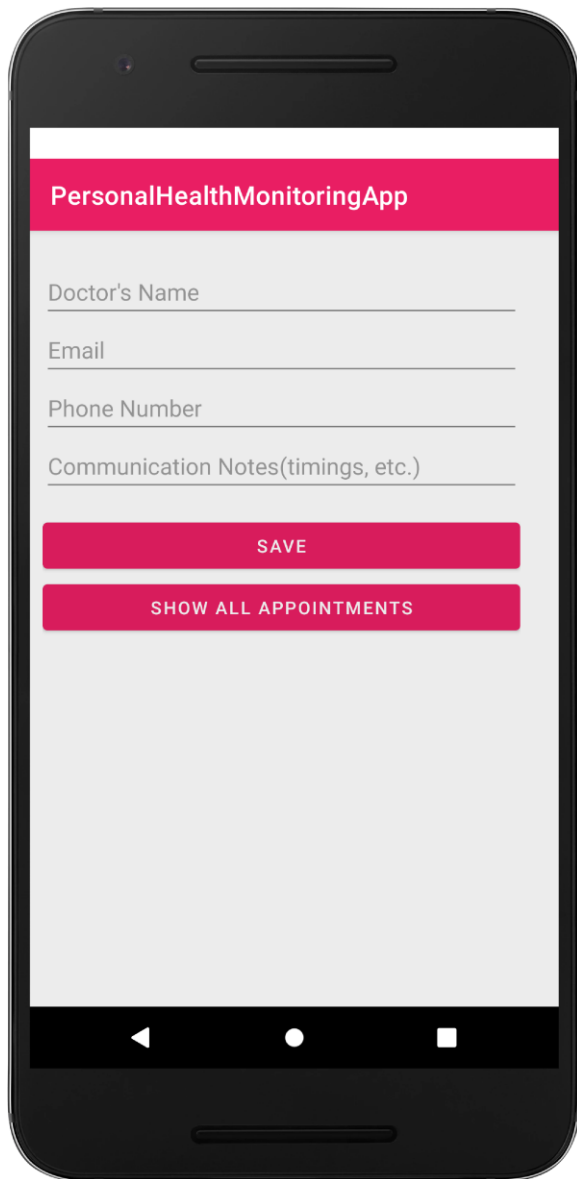


Delete a Reminder

Click on the delete icon on the reminder screen to delete a reminder notification

Communication

Screen:



PersonalHealthMonitoringApp

Doctor's Name

Email

Phone Number

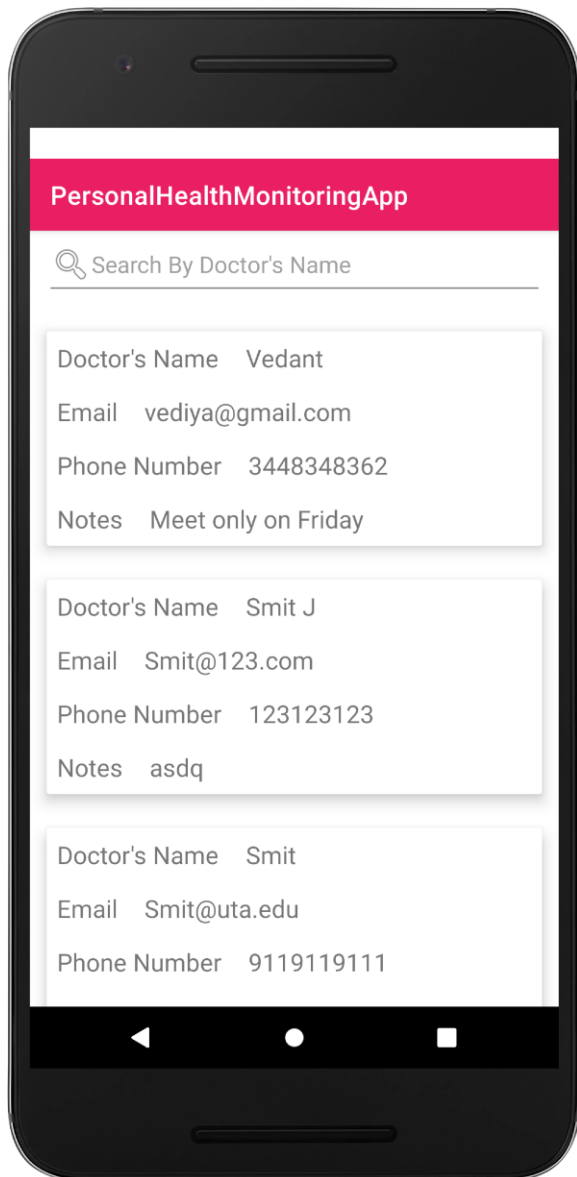
Communication Notes(timings, etc.)

SAVE

SHOW ALL APPOINTMENTS

User can add his/her doctor's details like Doctor's Name, Email, Phone Number, Communication Notes

Show all doctor's details:



User can see all the information of every doctor added.

User can also search doctors' information by his/her name

Future Expansion:

1. User role of doctor can be added to the Application which will enhance Patient's experience
2. Chatbot can be added which provides basic information and measures to be taken for certain diseases
3. Chat feature can be implemented between doctor and the Patient
4. Give reminders to consume medication, meals and do exercise.
5. Ability to Record vitals from smart watches and fitness bands.
6. The app can send reminder to user's loved ones, if the vitals go down below a certain level, after continuous reading from smart watch or fitness band. Can also, track your sleep monitoring pattern based on your phone's usage
7. Speech to text API and vice versa so that the user and the app can interact with each other without typing anything manually

Team Photo





Thank you
-Team 2