#### A PROJECT REPORT ON

# **Smart Fitness Monitoring System**

Submitted By Noorulayan Ansari

Seat No: TSD01

2019-2020

**Under the Guidance Of** 

Ms. Krishnachalitha K C

Ms. Anjali Deshpande

# SUBMITTED IN COMPLETE FULFILMENT OF THE REQUIREMENT FOR QUALIFYING

# **B. Voc. (Software Development)**

Semester – V Examination

**AUTONOMOUS** 

Jai Hind College

Basantsing Institute of Science

&

J.T. Lalvani College of Commerce

CHURCHGATE, MUMBAI 400020

# **CERTIFICATE**



## JAI HIND COLLEGE (AUTONOMOUS)

[2019-2020]

This is to certify that the project titled Smart Fitness Monitoring System.

Undertaken at the JAI HIND COLLEGE (AUTONOMOUS)

By Noorulayan Ansari

Seat no. 01

In complete fulfilment of B.Voc. Software Development Degree (Semester -V) Examination has not been submitted for any other examination or does not form part of any other course undergone by the candidate.

It is further certified that she has completed all required phases of the project.

Signature of Internal Guide	Signature of Coordinator
Date:	
Signature of External Examiner	

## **ACKNOWLEDGEMENT**

Firstly, I thank the Almighty, for helping and guiding me to complete this project successfully.

I take this opportunity to express my profound gratitude and deep regards to my Teacher for their exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessings, help and guidance given by them, from time to time, shall carry me a long way in the journey of life on which I am about to embark.

I also take this opportunity to express a deep sense of gratitude to the Head of Department, **Mr. Wilson Rao** for his cordial support, valuable information and guidance, which helped me in completing this task through various stages.

A large Debt of gratitude is owned to our project guide Ms.Krishna chalitha K C and Ms.Anjali Deshpande who have not only endured, but also encouraged, assisted and inspired me for taking up the project on Smart Fitness Monitoring System. I want to acknowledge and thank them for giving us the opportunity to do this under their guidance and also for sharing their immense knowledge. Their continuous guidance, time, valuable suggestions, inputs and helpful criticisms has helped us to accomplish such a challenging task.

Lastly, our parents, family and friends for their constant encouragement, with which I could carry on this project through thick and thin.

# **INDEX**

Sr.		Particulars	Page	Date	Sign
No		D I' ' I ' '	Number		
1.	1 1	Preliminary Investigation	1-9	0/0/10	
	1.1	Introduction	2	8/8/19	
	1.2	Existing System	3	8/8/19	
	1.3	Limitations of Existing System	3	8/8/19	
	1.4	Proposed System	4	8/8/19	
	1.5	Hardware & Software Requirements	5	8/8/19	
	1.6	Fact Finding Techniques	7	8/8/19	
	1.7	Feasibility Study	7	12/8/19	
	1.8	Project Schedule	8	12/8/19	
	1.9	SDLC model	9	12/8/19	
2.		System Analysis	10-17		
	2.1	Event Table	11	17/8/19	
	2.2	Entity Relationship Diagram	12	15/8/19	
	2.3	Class Diagram	13	17/8/19	
	2.4	Object Diagram	14	7/9/19	
	2.5	Use Case	15	1/9/19	
	2.6	Activity Diagram	16	1/9/19	
	2.7	Sequence Diagram	17	1/9/19	
	2.8	State Diagram	18	7/9/19	
3.		System Design	19-22		
٥.	3.1	Component Diagram	20	15/9/19	
	3.1	Deployment Diagram	21	15/9/19	
	3.3		22	15/9/19	
	3.3	Package Diagram	22	13/9/19	
4.		System Coding	23-195		
	4.1	Code	24	18/9/19	
	4.2	Data Dictionary	191	18/9/19	
	4.3	Programming Description	192	18/9/19	
	4.4	Naming Conventions	192	18/9/19	
	4.5	Validation	195	18/9/19	
5.		Program Listing	196-202		
	5.1	Cost Estimation	196	21/9/19	
	5.2	Test cases	200	21/9/19	
	5.3	User Manual With Screen Shots	202	21/9/19	
6.		Future Enhancement	203	23/9/19	
υ.		Tuture Elinancement	203	23/7/17	
7.		Bibliography	204	23/9/19	

# Preliminary Investigation

#### 1.1 INTRODUCTION

- Health monitoring systems named ad "Health ON Go" helps the user to track their health and monitor their records easily.
- "Health On Go" allow user to calculate their BMI and calorie consumed by the user during one meal.
- User can keep the track of their BMI whether it has increased or decreased they can update their height and weight.
- The system automatically calculates the BMI and stores it.
- As the name states Smart Health Monitoring System is a smart AI which calculates almost everything you need to take care of your health. The System helps in
- 1. BMI Level
- 2. Diet Monitoring,
- 3. Footstep monitoring,
- 4. Sleep Suggestion,
- 5. Water Alarm.
- So the user has to just register into the system by giving his personal details and physical attributes and the rest, the system takes care of everything.
- The Food items with its fats, carbs and proteins level are already stored in the
  database and the user can also add new food, which will help the system to monitor
  the users diet and accordingly suggests.

#### **ADVANTAGES**

- The User has to Login to use the app features.
- The system guides the user about his diet intakes.
- The System shows the bar of his intake level to let the user know about his limit.
- System also suggests the user about the food he should have.
- System lets the user know about his water and sleep intake.
- Data Changes when the user updates his physical attributes.
- System helps user to know about their intake of proteins, carbohydrates and fats
- System calculates BMI.

#### **DISADVANTAGES**

- It requires an active internet connection.
- The user should provide correct information to get the right output.
- The user has to on the alarm to get notification.
- The user should have an android phone.

#### 1.2 EXISTING SYSTEM

In the Existing System, the user does not get the exact count of protein, carbohydrates and fats. in the existing system water alarm is not present which helps user to remind about their water intake. the user has to manually enter their food item. We found that before us, there was no application available in the market which can create the diet-plan for user. We had to find out initially what the activities they are performing are, how they analyze user and how diet plans are created for particular person.

#### 1.3 LIMITATIONS OF EXISTING SYSTEM

- Difficult to use.
- In the existing system there is no reminder.
- Footstep monitoring is not enabled automatically we have to manually start it.

#### 1.4 Proposed system:

This is a mobile application for people who are concern with their health issues. Not only general people but also with some problem like obese, thinness, diabetic person etc., can use this application.

The user can not only know their calorific requirements but also can calculate calories for the food consumed. Various low-calorie recipes have been included for reference. For those who don't know how many calories they need in a day, Diet advisor provides functionality to calculate the calorific requirement also in these system users will be able to calculate footsteps, have a water alarm for their water intake.

1	.5	FA	CT	FIN	IDIN	G	TEC	THN	HO	HES	3:
1	••	T. \(\bullet \)	$\mathbf{L}$	T. TT.	יעעי	•			$\mathbf{u}$		• כ

Ten me now much you are exched	d for smart health monitoring system?
How can it help people on daily ba	asis?
How is this system better than other	er one?
Does it give proper information ab	pout the diet?
a) Yes	b) No
How will it analyze the diet?	
Do you expect to do more changes	s in this project?
What more features you are expec	cting?
Will it save time?	
a) Yes	b)No

#### 1.6 HARDWARE AND SOFTWARE REQUIREMENTS.

#### **Software Requirements:**

- Windows XP, Windows 7(ultimate, enterprise)
- Android Studio

• SQL Server/Visual Studio

#### **Hardware Components:**

- Processor i3
- Hard Disk 1 TB
- Memory 8GB RAM
- Android Phone with KitKat and higher.

#### 1.7 What Is Feasibility Study?

A feasibility study determines whether the project is likely to succeed in the first place. It is typically conducted before any steps are taken to move forward with a project, including planning. It is one of the—if not the—most important factors in determining whether the project can move forward. The study identifies the market for the project (if applicable); highlights key goals for the project based on market research; maps out potential roadblocks and offers alternative solutions; and factors in time, budget, legal and manpower requirements to determine whether the project is not only possible but advantageous for the company to undertake.

#### 5 Areas of a Project Feasibility Study:

#### • Technical Feasibility

Under technical feasibility, the assessment is centered on the technical resources available for the project. It helps organizations assess whether the technical team is capable of converting the ideas into working systems or not. Technical feasibility also involves evaluation of the hardware and the software requirements of the proposed system.

This is concerned with specifying equipment and software that will successfully satisfy the user requirement. The technical needs of the system may vary considerably, but might include:

- The facility to produce outputs in a given time.
- Response time under certain conditions.
- Ability to process a certain volume of transaction at a particular speed.
- Facility to communicate data to distant locations.

#### • Economic or financial feasibility

Economic feasibility of a project helps organizations assess the viability, cost, and benefits associated with projects; before financial resources are allocated. It helps decision-makers determine the positive economic benefits to the organization that the proposed system will provide, and helps quantify them too. This assessment typically involves a cost/ benefits analysis of the project.

Economic analysis is the most frequently used technique for evaluating the effectiveness of a proposed system. More commonly known as Cost / Benefit analysis, the procedure is to determine the benefits and savings that are expected from a proposed system and compare them with costs. If benefits outweigh costs, a decision is taken to design and implement the system. Otherwise, further justification or alternative in the proposed system will have to be made if it is to have a chance of being approved. This is an outgoing effort that improves in accuracy at each phase of the system life cycle.

#### • Legal feasibility

This area investigates if the proposed system conflicts with legal requirements like data protection acts or social media laws.

it is a measure of legal implications on the project, ethical considerations. We need to make sure that project undertaken will meet all legal and ethical requirements.

#### • Operational feasibility

This study helps analyze and determine whether the business needs can be fulfilled using the proposed solution or not. It helps to study if the business problem is worth solving.

This is mainly related to human organizational and political aspects. The points to be considered are:

- What changes will be brought with the system?
- What organizational structure are disturbed?
- What new skills will be required? Do the existing staff members have these skills? If not, can they be trained in due course of time?

This feasibility study is carried out by a small group of people who are familiar with information system technique and are skilled in system analysis and design process. Proposed projects are beneficial only if they can be turned into information system that will meet the operating requirements of the organization.

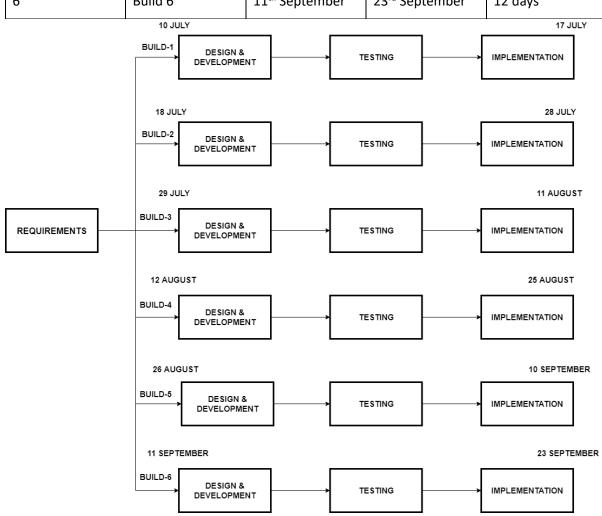
#### • Scheduling feasibility

Scheduling Feasibility is the most important in terms of project success. A project will fail if not completed on time. In scheduling feasibility, we estimate how much time the system will take to complete and with our technical skill we need to estimate the period to complete the project using some methods.

#### 1.8 PROJECT SCHEDULE:

#### **GANTT CHART:-**

Sr. No.	Task	From	То	Time
1	Build 1	10 <sup>th</sup> July ,2019	17 <sup>th</sup> July ,2019	7 days
2	Build 2	18 <sup>th</sup> July ,2019	28 <sup>th</sup> July ,2019	10 days
3	Build 3	29 <sup>th</sup> July ,2019	11 <sup>th</sup> August 2019	12 days
4	Build 4	12 <sup>th</sup> August 2019	25 <sup>th</sup> August 2019	13 days
5	Build 5	26 <sup>th</sup> August 2019	10 <sup>th</sup> September	14 days
6	Build 6	11 <sup>th</sup> September	23 <sup>rd</sup> September	12 days



#### 1.9 SDLC Model:

#### **Iterative Model**

In the Iterative model, iterative process starts with a simple implementation of a small set of the software requirements and iteratively enhances the evolving versions until the complete system is implemented and ready to be deployed. An iterative life cycle model does not attempt to start with a full specification of requirements. Instead, development begins by specifying and implementing just part of the software, which is then reviewed to identify further requirements. This process is then repeated, producing a new version of the software at the end of each iteration of the model.

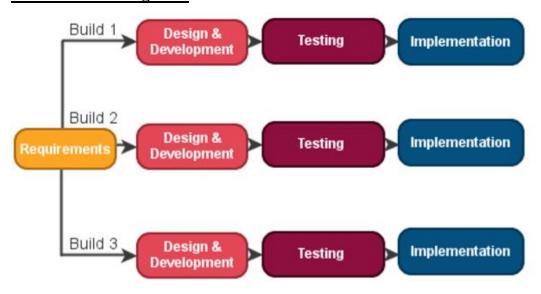
#### **ADVANTAGES**

- Some working functionality can be developed quickly and early in the life cycle.
- Results are obtained early and periodically.
- Parallel development can be planned.
- Progress can be measured.
- Less costly to change the scope/requirements.
- Testing and debugging during smaller iteration is easy.
- Risks are identified and resolved during iteration; and each iteration is an easily managed milestone.
- Easier to manage risk High risk part is done first.
- With every increment, operational product is delivered.
- Issues, challenges and risks identified from each increment can be utilized/applied to the next increment.
- Risk analysis is better.
- It supports changing requirements.
- Initial Operating time is less.
- Better suited for large and mission-critical projects.
- During the life cycle, software is produced early which facilitates customer evaluation and feedback.

#### **DISADVANTAGES**

- More resources may be required.
- Although cost of change is lesser, but it is not very suitable for changing requirements.
- System architecture or design issues may arise because not all requirements are gathered in the beginning of the entire life cycle.
- Defining increments may require definition of the complete system.
- Not suitable for smaller projects.
- Management complexity is more.
- End of project may not be known which is a risk.
- Highly skilled resources are required for risk analysis.
- Projects progress is highly dependent upon the risk analysis phase.

#### **General Model Diagram:-**

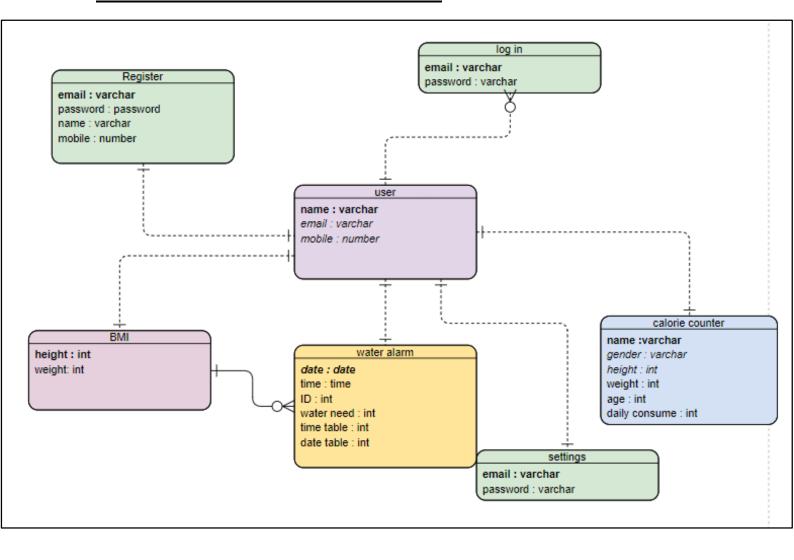


# SYSTEM ANALYSIS

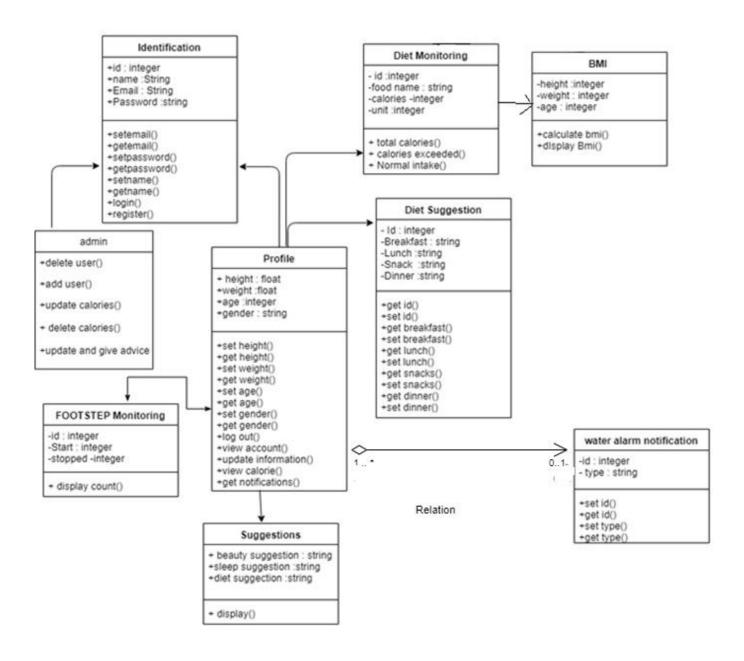
## 2.1 EVENT TABLE

User Registration       Registration Detail Persistration       User Persistration       Registration Persistration       User Registration       Log In Using Email Persistration       User Registration       Log In's User Log In Suplays the Admin In In In Interest Persistration       User/Admin In Interest Persistration       Home Page User/Admin In Interest Persistration       User Admin In Interest Persistration         BMI       User's Profile Enters Height, Weight, Age , Weight and Age       User Enter Height, Weight and Age       BMI of th Persistration       User Enter Gives The Calorice Consumed By The User. And Gives the Information Whether They Have Exceeded The Caloric Or Not.         BMI       Height, Weight, Age CALCULAT OR       User       Enters Height, Exceeded The Caloric Or Not.       User Weight And Age Display         Footstep       Start Button       User       Clicks On The Button       1.Footstep Display         Monitoring       Stop Button       Button Counting Starts 2. Footstep Counting Starts 2. Footstep Counting Stops       Starts 2. Footstep Counting Stops         Water Alarm       Notification Starts       User       Sets Alarm About Consuming Water Is Started	Events	Trigger	Source	Activity	Response	Destinatio
Registration       Login Using Email And Password       User/ Admin       Log In's User       Home Page In the page In						n
Caser Login   Login Using Email   User/ Admin   And Password   Admin   Notification Starts   Login In's User   Home Page   User/Admin   Notification Starts   Login In's User   Home Page   User/Admin   Notification Starts   Login In's User   Home Page   User/Admin   Notification Starts   Login In's User   Login In's User   Login In's User   Displays the Height, BMi of th Weight and person   Age   User Enter   Gives The Calorie   Consumed By The User   Calorie   Consumed By The User   And Gives the Information   Whether They Have   Exceeded The Calorie Or Not.   Not.	User	Registration Detail	User	Registers User	Log In	User
And Password Admin  BMI User's Profile User I.Enters Displays the Enters Height, Weight, Age , Weight and Age  Diet Food Tem, Units And Calorie Contained  Displays the Height, Weight and Age  Diet Food Tem, Units Admin The Food Item Calorie Consumed By The User. And Gives the Information Whether They Have Exceeded The Calorie Or Not.  BMI Height, Weight, Age CALCULAT OR  Footstep Start Button Starts User Clicks On The Button Counting Starts 2. Footstep Counting Stops  Water Alarm Notification Starts User Sets Alarm Notification User About Consuming Water Is	Registration					
BMI	User Login	Login Using Email	User/	Log In's User	Home Page	User/Admi
Calculate Enters Height, Weight, Age , Weight, Age ,  Diet Food Tem, Units Monitoring And Calorie Contained  Admin The Food Item Calorie Consumed By The User. And Gives the Information Whether They Have Exceeded The Calorie Or Not.  CALCULAT OR  Start Button  Stop Button  Water Alarm  Notification Starts  User  Height, Weight, Age User Enters Height, Calculates Weight And Age Display  Starts 2. Footstep Counting Stops  Water Alarm  Notification Starts  User  Sets Alarm  Notification About Consuming Water Is		And Password	Admin			n
Weight, Age ,   Weight and Age   Person	BMI	User's Profile	User	1.Enters	Displays the	User
Diet Food Tem, Units And Calorie Contained Admin The Food Item Calorie Consumed By The User. And Gives the Information Whether They Have Exceeded The Calorie Or Not.  BMI Height, Weight, Age CALCULAT OR Starts Stops Start Button Stop Button Stops Button Stops  Water Alarm Notification Starts User Sets Alarm Notification Starts User About Consuming Water Is	Caalculate	Enters Height,		Height,	BMi of th	
Diet Food Tem, Units And Calorie Contained Sometiment Contained Sometime		Weight, Age,		Weight and	person	
Monitoring And Calorie Contained  Admin The Food Item Calorie Consumed By The User. And Gives the Information Whether They Have Exceeded The Calorie Or Not.  BMI CALCULAT OR Footstep Start Button Stop Button  Water Alarm Notification Starts  User  Sets Alarm  Notification Starts User  Sets Alarm  Notification Admin The Food Item Calorie Consumed By The User. And Gives the Information Whether They Have Exceeded The Calculates Weight And Age Display  User Clicks On The Button Counting Starts 2. Footstep Counting Stops  Water Alarm Notification About Consuming Water Is				Age		
Contained  Consumed By The User. And Gives the Information Whether They Have Exceeded The Calorie Or Not.  BMI CALCULAT OR  Footstep Start Button Monitoring  Stop Button  Water Alarm  Notification Starts User  Sets Alarm  Sets Alarm  Consuming Water Is	Diet	Food Tem, Units	User/	User Enter	Gives The	User
The User. And Gives the Information Whether They Have Exceeded The Calorie Or Not.  BMI CALCULAT OR  Footstep Start Button Stop Button  Stop Button  Water Alarm  Notification Starts  User  Sets Alarm  User Sets Alarm  Notification Starts  User  Sets Alarm  Notification About Consuming Water Is	Monitoring	And Calorie	Admin	The Food Item	Calorie	
And Gives the Information Whether They Have Exceeded The Calorie Or Not.  BMI Height, Weight, Age User Enters Height, Calculates Weight And Age Display  Footstep Start Button User Clicks On The Stop Button Starts 2. Footstep Counting Starts 2. Footstep Counting Stops  Water Alarm Notification Starts User Sets Alarm Notification About Consuming Water Is		Contained			Consumed By	
Monitoring   Mon					The User.	
Whether They Have   Exceeded The   Calorie Or   Not.					And Gives the	
Have Exceeded The Calorie Or Not.  BMI Height, Weight, Age User Enters Height , Calculates Weight And BMI And Age Display  Footstep Start Button User Clicks On The Stop Button Starts 2. Footstep Counting Starts 2. Footstep Counting Stops  Water Alarm Notification Starts User Sets Alarm Notification User About Consuming Water Is					Information	
BMI Height, Weight, Age User Enters Height, Calculates Weight And BMI And Age Display  Footstep Start Button User Clicks On The Button Counting Starts 2. Footstep Counting Stops  Water Alarm Notification Starts User Sets Alarm Notification Liser About Consuming Water Is					Whether They	
BMI Height, Weight, Age User Enters Height , Calculates Weight And Age Display  Footstep Start Button User Clicks On The Monitoring Stop Button Stop Button  Water Alarm Notification Starts User Sets Alarm Notification Gonuming Water Is					Have	
BMI Height, Weight, Age User Enters Height , Calculates Weight And BMI And Age Display  Footstep Start Button User Clicks On The Button Counting Starts 2. Footstep Counting Stops  Water Alarm Notification Starts User Sets Alarm Notification Loser About Consuming Water Is					Exceeded The	
BMI Height, Weight, Age User Enters Height, Calculates Weight And BMI And Age Display  Footstep Start Button User Clicks On The Button Counting Starts 2. Footstep Counting Stops  Water Alarm Notification Starts User Sets Alarm Notification About Consuming Water Is					Calorie Or	
CALCULAT OR  Start Button  User  Clicks On The Button  Counting Starts 2. Footstep Counting Stops  Water Alarm  Notification Starts User  Sets Alarm  Notification  Weight And Age Display  User  Counting Starts 2. Footstep Counting Stops  Vater Alarm Notification  Lyer  About Consuming Water Is					Not.	
OR       Age       Display         Footstep       Start Button       User       Clicks On The Button       1.Footstep       User         Monitoring       Stop Button       Button       Counting Starts       Starts       2. Footstep       Counting Stops         Water Alarm       Notification Starts       User       Sets Alarm       Notification About Consuming Water Is       User	BMI	Height, Weight, Age	User	Enters Height,	Calculates	User
Footstep Monitoring Stop Button Stop Button Stop Button Stop Button Stop Button Starts 2. Footstep Counting Stops Water Alarm Notification Starts User Sets Alarm Notification About Consuming Water Is	CALCULAT			Weight And	BMI And	
Monitoring       Stop Button       Button       Counting         Starts       2. Footstep         Counting       Stops         Water Alarm       Notification Starts       User         Sets Alarm       Notification       User         About       Consuming         Water Is       Water Is	OR			Age	Display	
Water Alarm Notification Starts User Sets Alarm Notification User About Consuming Water Is	Footstep	Start Button	User	Clicks On The	1.Footstep	User
Water Alarm Notification Starts User Sets Alarm Notification House About Consuming Water Is	Monitoring	Stop Button		Button	Counting	
Water Alarm Notification Starts User Sets Alarm Notification User About Consuming Water Is					Starts	
Water Alarm Notification Starts User Sets Alarm Notification User About Consuming Water Is					2. Footstep	
Water Alarm Notification Starts User Sets Alarm Notification User About Consuming Water Is					Counting	
About Consuming Water Is					Stops	
Consuming Water Is	Water Alarm	Notification Starts	User	Sets Alarm	Notification	User
Water Is					About	
					Consuming	
Started					Water Is	
					Started	

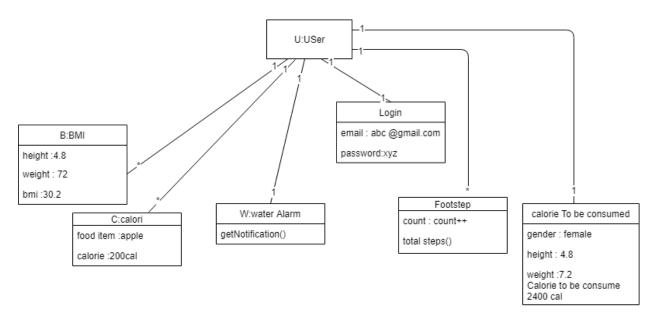
#### 2.2 ENTITY RELATIONSHIP DIAGRAM



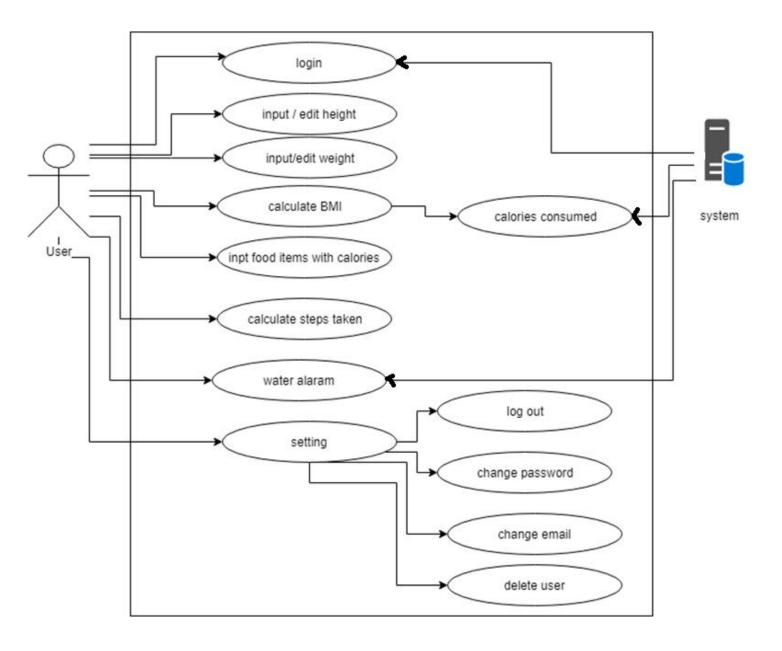
#### 2.3 CLASS DIAGRAM



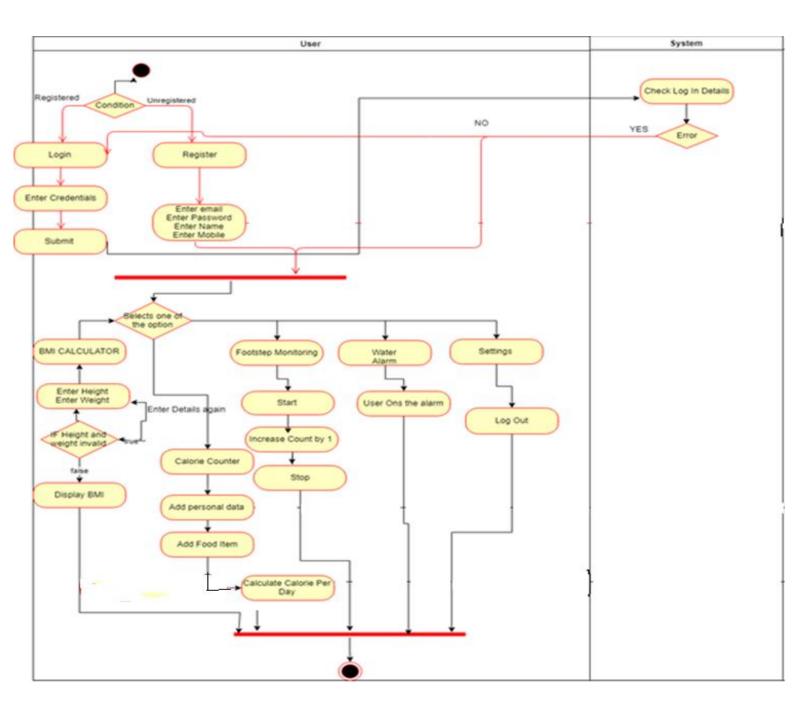
#### **2.4 OBJECT DIAGRAM**



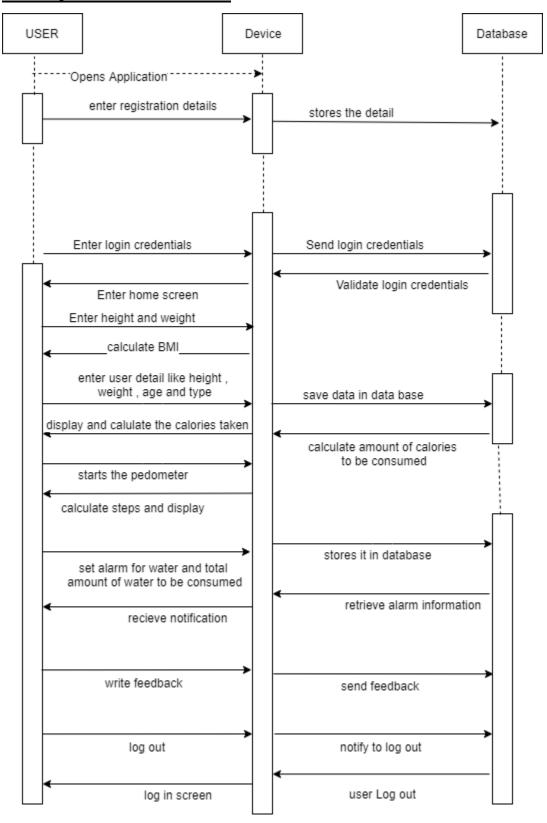
#### 2.5 USE CASE DIAGRAM



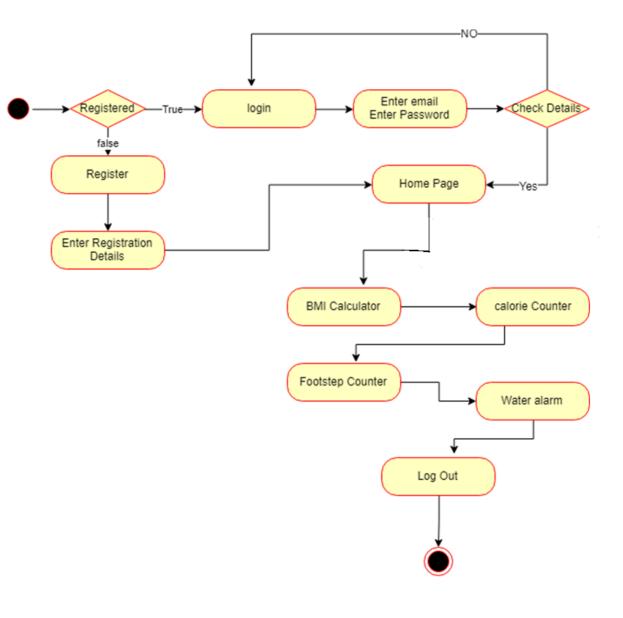
#### **2.6 ACTIVITY DIAGRAM**



#### 2.7 SEQUENCE DIAGRAM

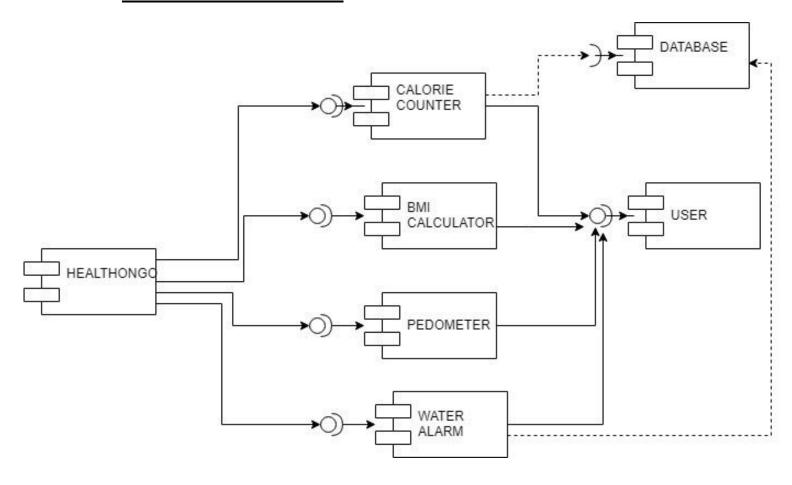


#### 2.8 STATE DIAGRAM

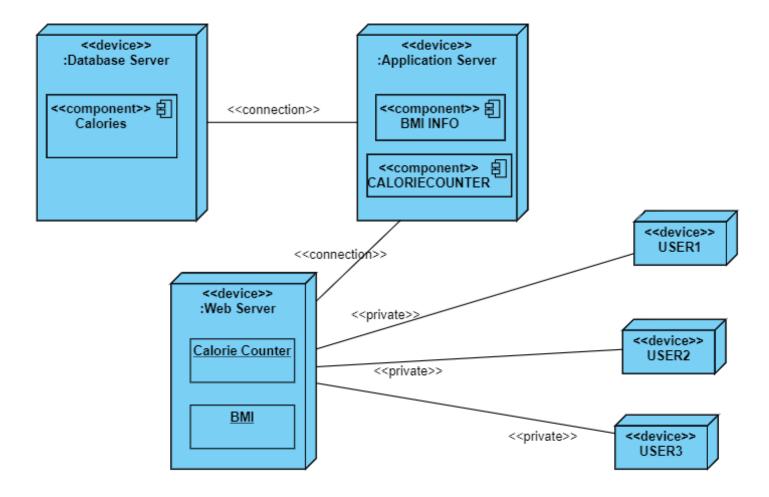


# SYSTEM DIAGRAM

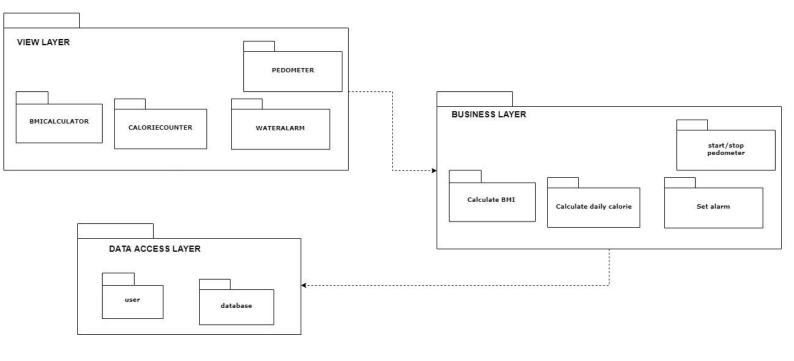
# 3.2 <u>COMPONENT DIAGRAM</u>



#### 3.3 <u>DEPLOYMENT DIAGRAM</u>



## 3.4 PACKAGE DIAGRAM



# SYSTEM CODING

#### XML CODE:

#### 1)activity add new entry.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
 tools:context=".AddNewEntryActivity"
  android:background="@drawable/bg"
  android:textColor="@color/defaultTextColor">
  <TextView
    android:id="@+id/date"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:paddingLeft="20dp"
    android:paddingTop="10dp"
    android:text="Date:"
    android:textColor="@color/defaultTextColor"
    android:textSize="20sp"
    android:textStyle="bold" />
  <TextView
    android:id="@+id/description"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/date"
    android:paddingLeft="20dp"
    android:textColor="@color/defaultTextColor"
    android:paddingTop="10dp"
    android:text="Description: "
    android:textSize="15sp"
    android:textStyle="bold" />
```

```
<TextView
    android:id="@+id/total calories"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/calories_per_weight"
    android:layout alignParentLeft="true"
    android:textColor="@color/defaultTextColor"
    android:paddingLeft="20dp"
    android:paddingTop="10dp"
    android:text="Total Calories: "
    android:textSize="15sp"
    android:textStyle="bold" />
  <TextView
    android:id="@+id/total_weight_consumed"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_above="@+id/cancel_button"
    android:layout_alignLeft="@+id/per_weight"
    android:textColor="@color/defaultTextColor"
android:layout marginBottom="24dp"
    android:maxWidth="150dp"
    android:paddingLeft="10dp"
    android:paddingTop="20dp"
    android:text="Total Weight/Volume/Serving Consumed: "
    android:textSize="13sp" />
  <TextView
    android:id="@+id/calories per weight"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:textColor="@color/defaultTextColor"
    android:layout alignBottom="@+id/calories per weight text"
    android:layout toLeftOf="@+id/calories per weight text"
```

```
android:maxWidth="150dp"
  android:paddingLeft="10dp"
  android:paddingTop="30dp"
  android:text="Calories Per Weight/Volume/Serving: "
  android:textSize="13sp" />
<TextView
  android:id="@+id/per weight"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout above="@+id/total weight consumed"
  android:textColor="@color/defaultTextColor"
  android:layout_toLeftOf="@+id/per_weight_text"
  android:maxWidth="150dp"
  android:paddingLeft="10dp"
  android:paddingTop="20dp"
  android:text="Per Weight/Volume/Serving: "
  android:textSize="13sp" />
<EditText
  android:id="@+id/date text"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout alignParentEnd="true"
  android:layout alignParentTop="true"
  android:ems="10"
  android:inputType="date"
  android:textAllCaps="false"
  android:backgroundTint="@color/defaultTextColor"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textSize="13sp" />
<EditText
  android:id="@+id/description text"
```

```
android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout above="@+id/total calories"
  android:layout alignParentRight="true"
  android:layout_below="@+id/date_text"
  android:backgroundTint="@color/defaultTextColor"
  android:drawableTint="@color/defaultTextColor"
  android:ems="10"
  android:gravity="top"
  android:hint="eg. eating some craisins, Lunch at Burrito Libre."
  android:inputType="textMultiLine"
  android:textColor="@color/defaultTextColor"
  android:textColorHighlight="@color/defaultTextColor"
  android:textColorHint="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textSize="13sp" />
<EditText
  android:id="@+id/total_calories_text"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout_above="@+id/calories_per_weight"
  android:layout alignParentRight="true"
  android:ems="10"
  android:inputType="number"
  android:textColor="@color/defaultTextColor"
  android:backgroundTint="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textSize="13sp" />
<EditText
  android:id="@+id/calories per weight text"
  android:layout width="wrap content"
  android:layout height="wrap content"
```

```
android:layout above="@+id/per weight"
  android:textColor="@color/defaultTextColor"
  android:layout alignLeft="@+id/cancel button"
  android:backgroundTint="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:layout alignParentRight="true"
  android:ems="10"
  android:inputType="numberDecimal"
  android:textSize="13sp" />
<EditText
  android:id="@+id/per weight text"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_above="@+id/total_weight_consumed"
  android:layout_alignLeft="@+id/calories_per_weight_text"
  android:layout alignParentRight="true"
  android:ems="10"
  android:inputType="numberDecimal"
  android:backgroundTint="@color/defaultTextColor"
  android:textColor="@color/defaultTextColor"
  android:textSize="13sp"
  android:visibility="visible" />
<EditText
  android:id="@+id/total weight text"
  android:layout width="wrap content"
  android:textColor="@color/defaultTextColor"
  android:layout height="wrap content"
  android:backgroundTint="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:layout alignBottom="@+id/total weight consumed"
  android:layout alignLeft="@+id/per weight text"
  android:ems="10"
```

```
android:inputType="numberDecimal"
    android:textSize="13sp" />
  <Button
    android:id="@+id/cancel button"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout toLeftOf="@+id/submit button"
    android:backgroundTint="@color/defaultTextColor"
    android:onClick="returnToPrevActivity"
    android:text="Cancel"
    android:textColor="@android:color/background_dark"
    android:textColorLink="@color/defaultTextColor" />
  <Button
    android:id="@+id/submit_button"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout alignParentBottom="true"
    android:layout_alignParentRight="true"
    android:backgroundTint="@color/defaultTextColor"
    android:onClick="createEntry"
    android:text="Submit"
    android:textColor="@android:color/background dark"
    android:textColorLink="@color/defaultTextColor" />
</RelativeLayout>
```

#### 2)activity bmi

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".BMI"
  android:background="@drawable/gr2"
  android:orientation="vertical">
  <TextView
    android:id="@+id/tv1"
    android:layout_width="124dp"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:paddingLeft="15dp"
    android:paddingTop="40dp"
    android:shadowColor="@android:color/black"
    android:shadowDx="4"
    android:shadowDy="4"
    android:text="BMI"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:textColor="@android:color/white"
    android:textSize="50sp"
    android:typeface="serif" />
  <TextView
    android:id="@+id/tv2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout gravity="center"
    android:text="Calculator"
    android:textColor="@android:color/white"
    android:textSize="20dp"
```

```
android:textStyle="bold" />
<TextView
android:id="@+id/tv3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout gravity="center"
android:paddingTop="30dp"
android:text="WEIGHT (KG)"
android:textAppearance="?android:attr/textAppearanceMedium"
android:textColor="@android:color/white"
android:textStyle="bold|italic"
android:typeface="serif" />
<EditText
  android:id="@+id/et1"
  android:layout_width="96dp"
  android:layout_height="wrap_content"
  android:layout_gravity="center"
  android:hint="IN KGs"
  android:ems="10"
  android:fadingEdgeLength="10dp"
  android:inputType="numberDecimal"
  android:textAlignment="center" >
  <requestFocus />
</EditText>
<TextView
  android:id="@+id/tv8"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout_gravity="center"
  android:paddingTop="30dp"
  android:text="HEIGHT (feets)"
  android:textAppearance="?android:attr/textAppearanceMedium"
```

```
android:textColor="@android:color/white"
  android:textStyle="bold|italic"
  android:typeface="serif" />
<EditText
  android:id="@+id/et2"
  android:layout width="96dp"
  android:layout_height="wrap_content"
  android:layout_gravity="center"
  android:hint="IN feets"
  android:ems="10"
  android:inputType="numberDecimal" >
</EditText>
<Button
  android:id="@+id/ib1"
  android:layout_width="158dp"
  android:layout_height="51dp"
  android:layout_gravity="center"
  android:layout_marginTop="20dp"
  android:fadingEdge="vertical"
  android:longClickable="true"
  android:nextFocusRight="@color/white"
  android:text="Calculate"
  android:visibility="visible" />
<TextView
  android:id="@+id/tv4"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout gravity="center"
  android:paddingTop="20dp"
  android:text=""
  android:textSize="20dp"
  android:textStyle="bold"
```

```
android:textColor="@android:color/holo_orange_dark"/>
</LinearLayout>
```

# 3)activity chart

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout height="match parent"
  xmlns:tools="http://schemas.android.com/tools"
  tools:context=".ChartActivity"
  android:background="@color/blue">
  <TabHost
    android:layout width="match parent"
    android:layout height="match parent"
    android:id="@+id/tabHost"
    android:layout centerHorizontal="true"
    android:layout alignParentTop="true">
    <LinearLayout
      android:layout width="match parent"
      android:layout height="match parent"
      android:orientation="vertical"
      android:background="@color/bright foreground inverse material light">
      <TabWidget
        android:id="@android:id/tabs"
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:gravity="top"></TabWidget>
      <FrameLayout
        android:id="@android:id/tabcontent"
        android:layout width="match parent"
        android:layout_height="match_parent">
```

```
<LinearLayout
  android:id="@+id/linearLayout"
  android:layout width="match parent"
  android:layout height="match parent"
  android:layout_marginTop="@dimen/activity_horizontal_margin"
  android:layout_marginRight="@dimen/activity_horizontal_margin"
  android:layout_marginLeft="@dimen/activity_horizontal_margin"
  android:layout_marginBottom="@dimen/activity_horizontal_margin"
  android:orientation="vertical">
  <TextView
    android:layout width="354dp"
    android:layout_height="73dp"
    android:id="@+id/textView"
    android:layout_gravity="center_horizontal"
    android:textStyle="bold"
    android:textSize="20dp"
    android:paddingLeft="10dp"
    android:gravity="center_vertical"
    android:textColor="@color/blue"
    />
  <com.github.mikephil.charting.charts.BarChart</p>
    android:id="@+id/day chart"
    android:layout width="match parent"
    android:layout height="match parent" />
  />
</LinearLayout>
<LinearLayout
  android:id="@+id/linearLayout2"
  android:layout width="match parent"
  android:layout height="match parent"
  android:layout marginTop="@dimen/activity horizontal margin"
  android:layout marginRight="@dimen/activity horizontal margin"
```

```
android:layout marginLeft="@dimen/activity horizontal margin"
          android:layout_marginBottom="@dimen/activity_horizontal_margin"
          android:orientation="vertical">
          <TextView
            android:layout width="354dp"
            android:layout height="73dp"
            android:id="@+id/textView2"
            android:layout_gravity="center_horizontal"
            android:textStyle="bold"
            android:textSize="20dp"
            android:paddingLeft="10dp"
            android:gravity="center_vertical"
            android:textColor="@color/blue"/>
          <com.github.mikephil.charting.charts.BarChart</pre>
            android:id="@+id/week_chart"
            android:layout width="match parent"
            android:layout_height="match_parent" />
          />
        </LinearLayout>
<LinearLayout
          android:id="@+id/linearLayout3"
          android:layout width="match parent"
          android:layout height="match parent"
          android:layout marginTop="@dimen/activity horizontal margin"
          android:layout marginRight="@dimen/activity horizontal margin"
          android:layout_marginLeft="@dimen/activity horizontal margin"
          android:layout marginBottom="@dimen/activity horizontal margin"
          android:orientation="vertical">
          <TextView
            android:layout width="354dp"
            android:layout height="73dp"
            android:id="@+id/textView3"
```

```
android:layout gravity="center horizontal"
    android:paddingLeft="10dp"
    android:textStyle="bold"
    android:textSize="20dp"
    android:gravity="center_vertical"
    android:textColor="@color/blue"/>
  <com.github.mikephil.charting.charts.BarChart</p>
    android:id="@+id/month_chart"
    android:layout_width="match_parent"
    android:layout height="match parent" />
  />
</LinearLayout>
<LinearLayout
  android:id="@+id/linearLayout4"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:layout_marginTop="@dimen/activity_horizontal_margin"
  android:layout_marginRight="@dimen/activity_horizontal_margin"
  android:layout marginLeft="@dimen/activity horizontal margin"
  android:layout marginBottom="@dimen/activity horizontal margin"
  android:orientation="vertical">
  <TextView
    android:layout width="354dp"
    android:layout height="73dp"
    android:id="@+id/textView4"
    android:paddingLeft="10dp"
    android:layout gravity="center horizontal"
    android:textStyle="bold"
    android:textSize="20dp"
    android:gravity="center vertical"
    android:textColor="@color/blue"/>
  <com.github.mikephil.charting.charts.BarChart</p>
```

```
android:id="@+id/year_chart"
android:layout_width="match_parent"
android:layout_height="match_parent" />
/>
</LinearLayout>
</FrameLayout>
</LinearLayout>
</RelativeLayout>
```

# 4)activity\_data\_classess

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/drawer layout"
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:fitsSystemWindows="true"
 tools:openDrawer="start"
  android:background="@drawable/bg"
  android:textColor="@color/defaultTextColor">
<include
    layout="@layout/app_bar_data__classess"
    android:layout width="match parent"
    android:layout height="match parent" />
<com.google.android.material.navigation.NavigationView</pre>
    android:id="@+id/nav view"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
```

```
app:menu="@menu/activity_data__classess_drawer"
    android:layout_gravity="start"
    >
</com.google.android.material.navigation.NavigationView>
</androidx.drawerlayout.widget.DrawerLayout>
activity_date_log
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout_height="match_parent"
  android:background="@drawable/main page backgound">
  <ListView
    android:id="@+id/log list"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:divider="@color/colorPrimaryDark"
    android:dividerHeight="4px"/>
</RelativeLayout>
activity_display_log
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".DisplayLogActivity"
  android:background="@drawable/bg"
```

```
android:orientation="vertical" >
  <Button
    android:id="@+id/back_button"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentRight="true"
    android:minHeight="40dp"
    android:minWidth="100dp"
    android:onClick="closeActivity"
    android:text="Back"
    android:textColor="@android:color/background_dark" />
  <ListView
    android:id="@+id/log_list"
    android:layout_width="fill_parent"
    android:layout height="wrap content"
    android:layout above="@+id/back button"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:textColor="@android:color/background dark"
    android:scrollbars="vertical"
    android:textSize="12sp" >
</ListView>
</RelativeLayout>
```

### 5) activity feedback

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
  android:layout_height="match_parent"
android:paddingLeft="@dimen/activity horizontal margin"
  android:paddingRight="@dimen/activity horizontal margin"
  android:paddingTop="@dimen/activity vertical margin"
 android:background="@drawable/gr2"
 android:paddingBottom="@dimen/activity vertical margin" tools:context=".Feedback"
 >
 <ImageView
    android:id="@+id/imageView3"
    android:layout width="205dp"
    android:layout height="161dp"
    android:layout marginStart="100dp"
    android:layout marginTop="0dp"
    app:srcCompat="@drawable/feedback2" />
  <Button
    android:id="@+id/btn feedback"
    android:layout width="200dp"
    android:layout height="wrap content"
    android:layout marginStart="100dp"
    android:layout marginTop="170dp"
    android:text="@string/button_feedback"
    android:fontFamily="@font/playfair display black italic"
    android:background="@drawable/backgroundxml"/>
```

# 6)activity footstep

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:orientation="vertical"
  android:gravity="center"
  android:layout width="match parent"
  android:layout height="match parent"
  android:background="#9AD1D4">
<TextView
    android:id="@+id/tv steps"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:gravity="center"
    android:textSize="50dp"
    android:fontFamily="@font/playfair display black italic"
    android:textStyle="bold"
    android:textColor="#CC3363"
                                    />
<Button
    android:id="@+id/btn start"
    android:layout width="200dp"
    android:layout_height="wrap content"
    android:drawableLeft="@drawable/ic start"
    android:text="Start Pedometer"
    android:background="@drawable/button"
                                                />
  <Button
    android:id="@+id/btn stop"
    android:layout width="200dp"
    android:layout height="wrap content"
    android:layout marginTop="50dp"
    android:drawableLeft="@drawable/ic stop"
```

```
android:background="@drawable/button"
android:text="Stop Pedometer" />
</LinearLayout>
```

# 7) activity fragment

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:orientation="vertical" android:layout width="match parent"
  android:layout height="match parent"
  android:gravity="center"
  android:weightSum="1">
  <ImageView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:id="@+id/image view"
    android:cropToPadding="false"
    android:adjustViewBounds="true"
    android:maxWidth="110dp"
    android:maxHeight="110dp"
    android:scaleType="fitCenter"
    android:layout marginRight="3dp"
    android:src="@color/blue"
    android:foregroundGravity="center" />
  <TextView
    android:layout width="212dp"
    android:layout height="200dp"
    android:text=" New Text"
    android:id="@+id/review view"
    android:foregroundGravity="center vertical"
    android:gravity="center"
    android:textSize="20dp"
```

```
android:textStyle="bold" />

<Button

android:layout_width="168dp"

android:layout_height="50dp"

android:text=" Share advice"

android:id="@+id/shareBtn"

android:textColor="@color/colorPrimaryDark"

android:layout_gravity="bottom|center_horizontal"

android:background="@drawable/round_corner"

android:layout_alignParentBottom="true"

android:layout_centerHorizontal="true"

android:layout_marginBottom="90dp" />

</LinearLayout>
```

# 8)activity home

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   tools:context=".home"
   android:id="@+id/drawerLayout"
   android:background="@drawable/gr2">
   <LinearLayout
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:orientation="vertical">
   <FrameLayout</pre>
```

```
android:layout width="wrap content"
   android:layout_height="match_parent"
     android:id="@+id/main container"
   <LinearLayout
 android:layout_width="match_parent"
android:layout height="wrap content"
 android:orientation="vertical"
       android:divider="@android:color/black"
       android:showDividers="middle" >
       <TextView
         android:id="@+id/BMI"
         android:layout_width="wrap_content"
         android:layout height="wrap content"
         android:text="BMI Calculaor"
         android:layout_marginTop="20dp"
         android:textSize="30sp"
        android:drawableLeft="@drawable/bmi4"
         android:layout_marginStart="44dp"
         android:layout marginBottom="10dp"
android:fontFamily="@font/playfair display black italic"/>
       <TextView
         android:id="@+id/textView2"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:textSize="30sp"
         android:layout_marginStart="44dp"
         android:layout marginTop="20dp"
         android:drawableStart="@drawable/calorie2"
         android:layout marginBottom="10dp"
         android:fontFamily="@font/playfair display black italic"
         android:text="Calorie Counter" />
       <TextView
```

```
android:id="@+id/textView3"
          android:layout_marginTop="20dp"
          android:fontFamily="@font/playfair display black italic"
          android:layout width="wrap content"
          android:textSize="30sp"
          android:drawableStart="@drawable/footstep"
          android:layout marginStart="44dp"
          android:layout_marginBottom="10dp"
          android:layout height="wrap content"
          android:text="Footstep Monitoring" />
        <TextView
          android:id="@+id/textView4"
          android:fontFamily="@font/playfair display black italic"
          android:layout_width="wrap_content"
          android:layout_height="wrap_content"
          android:textSize="30sp"
          android:layout marginTop="20dp"
android:layout_marginBottom="10dp"
          android:drawableStart="@drawable/water"
          android:layout marginStart="44dp"
          android:text="Water alarm" />
        <TextView
         android:id="@+id/textView5"
          android:fontFamily="@font/playfair display black italic"
          android:layout width="wrap content"
          android:layout height="wrap content"
          android:drawableStart="@drawable/suggestion"
          android:textSize="30sp"
          android:layout marginTop="20dp"
          android:layout marginStart="44dp"
          android:text="Suggestion" />
</LinearLayout>
```

```
</FrameLayout>
  </LinearLayout>
  <com.google.android.material.navigation.NavigationView
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    app:menu="@menu/navigation"
    android:layout_gravity="start"
    android:id="@+id/navigation_view">
</com.google.android.material.navigation.NavigationView>
</androidx.drawerlayout.widget.DrawerLayout>
9)activity log out
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:fitsSystemWindows="true"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".LogOut"
  android:background="@drawable/gr2">
<LinearLayout
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:orientation="vertical">
<EditText
      android:id="@+id/old_email"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:hint="Enter Email"
```

```
android:inputType="textEmailAddress"
      android:maxLines="1"
      android:singleLine="true" />
    <EditText
      android:id="@+id/new_email"
      android:layout width="match parent"
      android:layout_height="wrap_content"
      android:hint="Enter new Email"
      android:inputType="textEmailAddress"
      android:maxLines="1"
      android:singleLine="true" />
<EditText
      android:id="@+id/password"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:focusableInTouchMode="true"
      android:hint="Enter Password"
      android:imeActionId="6"
      android:imeOptions="actionUnspecified"
      android:inputType="textPassword"
      android:maxLines="1"
      android:singleLine="true" />
    <EditText
      android:id="@+id/newPassword"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:focusableInTouchMode="true"
      android:hint="Enter New Password"
      android:imeActionId="6"
      android:imeOptions="actionUnspecified"
      android:inputType="textPassword"
```

```
android:maxLines="1"
      android:singleLine="true" />
<Button
      android:id="@+id/changeEmail"
      style="?android:textAppearanceSmall"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout marginTop="10dp"
      android:background="@color/colorPrimaryDark"
      android:text="Change Email"
      android:layout gravity="center"
      android:textColor="@android:color/white"
      android:textStyle="bold" />
    <Button
      android:id="@+id/changePass"
      android:layout_gravity="center"
      style="?android:textAppearanceSmall"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout marginTop="10dp"
      android:background="@color/colorPrimaryDark"
      android:text="Change Password"
      android:textColor="@android:color/white"
      android:textStyle="bold" />
    <Button
      android:id="@+id/send"
      android:layout gravity="center"
      android:layout_width="wrap_content"
      android:layout height="45dp"
      android:layout marginTop="10dp"
      android:background="@color/colorPrimaryDark"
      android:text="Send Password Reset Email"
```

```
android:textColor="@android:color/white"
  />
< Progress Bar
  android:id="@+id/progressBar"
  android:layout_width="30dp"
  android:layout height="30dp"
  android:visibility="gone" />
<Button
  android:layout gravity="center"
  android:id="@+id/remove"
  style="?android:textAppearanceSmall"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_marginTop="10dp"
  android:background="@color/colorPrimaryDark"
  android:text="Remove user"
  android:textColor="@android:color/white"
  android:textStyle="bold" />
<LinearLayout
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:orientation="vertical"
  android:layout_gravity="center"
  android:textAlignment="center">
<Button
  android:id="@+id/change email button"
  style="?android:textAppearanceSmall"
  android:layout width="150dp"
  android:layout_gravity="center"
  android:layout height="70dp"
  android:layout_marginTop="10dp"
  android:drawableRight="@drawable/ic mail"
```

```
android:text="Change Email"
  android:textStyle="bold" />
<Button
  android:id="@+id/change password button"
 style="?android:textAppearanceSmall"
 android:layout width="wrap content"
 android:layout_height="wrap_content"
 android:layout_gravity="center"
 android:layout_marginTop="10dp"
 android:text="Change Password"
 android:drawableRight="@drawable/password"
  android:textStyle="bold" />
<Button
  android:layout_gravity="center"
  android:id="@+id/sending_pass_reset_button"
 style="?android:textAppearanceSmall"
 android:layout_width="wrap_content"
  android:layout_height="70dp"
 android:layout marginTop="10dp"
 android:drawableRight="@drawable/ic mail"
  android:text="Send Password Reset Email"
  android:textStyle="bold" />
<Button
 android:id="@+id/remove user button"
 style="?android:textAppearanceSmall"
 android:layout width="wrap content"
 android:layout height="70dp"
 android:layout marginTop="10dp"
 android:layout gravity="center"
 android:text="Remove User"
 android:drawableRight="@drawable/ic remove"
  android:textStyle="bold" />
```

```
<Button
    android:id="@+id/sign_out"
    style="?android:textAppearanceSmall"
    android:layout_width="wrap_content"
    android:layout_height="70dp"
    android:layout_marginTop="10dp"
    android:background="@color/colorPrimary"
    android:text="Sign Out"
    android:layout_gravity="center"
    android:drawableRight="@drawable/signout"
    android:textColor="@android:color/white"
    android:textStyle="bold"/>
</LinearLayout>
</LinearLayout>
```

### 10)activity login

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout_width="match_parent"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:layout_height="match_parent"
   android:gravity="center"
   android:orientation="vertical"
   android:background="@drawable/gr2" >
   <ImageView
   android:layout_width="wrap_content"
   android:layout_height="100dp"
   android:layout_gravity="center_horizontal"
   android:layout_marginBottom="24dp"</pre>
```

```
android:src="@drawable/logo2"/>
<EditText
 android:id="@+id/loginEmail"
 android:layout width="match parent"
 android:layout_height="wrap_content"
 android:layout margin="15dp"
 android:hint="Email"
 android:fontFamily="casual"
 android:drawableLeft="@drawable/ic email"
 android:inputType="textEmailAddress" />
<EditText
 android:id="@+id/loginpaswd"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:layout_margin="15dp"
 android:hint="Password"
 android:fontFamily="casual"
 android:drawableLeft="@drawable/ic_action_lock"
 android:inputType="textPassword"/>
<androidx.appcompat.widget.AppCompatCheckBox
 android:layout_width="wrap_content"
 android:layout height="wrap content"
 android:id="@+id/passwordshow"
 android:text="Show Password"/>
<Button
 android:id="@+id/btnLogIn"
 android:layout width="200dp"
 android:layout height="wrap content"
 android:layout margin="15dp"
 android:text="Log In"
 android:textSize="25dp" />
```

```
<TextView
    android:id="@+id/TVSignIn"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:layout_margin="15dp"
    android:text="New User? Register Here"
    android:textSize="20dp"
                                     />
    android:textAlignment="center"
  <TextView
    android:id="@+id/forgot"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="15dp"
    android:text="forgot password?"
    android:textSize="20dp"
    android:textAlignment="center"/>
  <ProgressBar
    android:id="@+id/progressBar"
    android:layout width="30dp"
    android:layout height="30dp"
    android:layout_gravity="center|bottom"
    android:layout marginBottom="20dp"
    android:visibility="gone"
    />
</LinearLayout>
12)activity main
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
```

```
android:layout width="fill parent"
  android:layout_height="fill_parent"
  android:paddingLeft="16dp"
  android:paddingRight="16dp"
  tools:context=".MainActivity"
  android:textColor="@color/defaultTextColor"
  android:background="@drawable/bg">
<TextView
    android:id="@+id/Name"
    android:layout_width="wrap content"
    android:layout height="wrap content"
    android:text="Name:"
    android:textAppearance="@style/TextAppearance.AppCompat"
    android:textColor="@color/defaultTextColor"
    android:textSize="15sp"
    android:layout above="@+id/Age"
    android:layout alignEnd="@+id/Age"
    android:layout alignTop="@+id/namevar"
    android:layout alignParentStart="true"
  <TextView
    android:id="@+id/Weight"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignBottom="@+id/weight"
    android:layout alignEnd="@+id/Height"
    android:layout alignParentStart="true"
    android:layout below="@+id/Height"
    android:text="Weight: (kg)"
    android:textAppearance="@style/TextAppearance.AppCompat"
    android:textColor="@color/defaultTextColor"
    android:textSize="15sp" />
```

```
<TextView
  android:id="@+id/Height"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout_alignBottom="@+id/height"
  android:layout alignParentStart="true"
  android:layout below="@+id/age"
  android:text="Height: (feet)"
  android:textAppearance="@style/TextAppearance.AppCompat"
  android:textColor="@color/defaultTextColor"
  android:textSize="15sp" />
<TextView
  android:id="@+id/Level"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Level Of Exercise:"
  android:textAppearance="@style/TextAppearance.AppCompat"
  android:textColor="@color/defaultTextColor"
  android:textSize="15sp"
  android:textStyle="bold"
  android:layout_below="@+id/Weight"
  android:layout alignParentStart="true" />
<TextView
  android:id="@+id/Age"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:text="Age:"
  android:textAppearance="@style/TextAppearance.AppCompat"
  android:textColor="@color/defaultTextColor"
  android:textSize="15sp"
  android:layout above="@+id/Height"
  android:layout below="@+id/namevar"
```

```
android:layout alignParentStart="true"
 android:layout_alignEnd="@+id/Height" />
<TextView
 android:id="@+id/Gender"
 android:layout_width="wrap_content"
 android:layout height="wrap content"
 android:text="Gender: "
 android:textAppearance="@style/TextAppearance.AppCompat"
 android:textColor="@color/defaultTextColor"
 android:textSize="20sp"
 android:layout_alignParentTop="true"
 android:layout_alignParentStart="true"
 android:layout above="@+id/Name" />
<RadioGroup
 android:layout_width="wrap_content"
 android:layout height="wrap content"
 android:id="@+id/radioGroup"
 android:layout_alignParentTop="true"
 android:layout alignParentEnd="true"
 android:layout marginEnd="41dp"
 android:orientation ="vertical">
 <RadioButton
   android:id="@+id/Male"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout alignBottom="@+id/Gender"
   android:layout alignTop="@+id/Gender"
   android:layout marginEnd="14dp"
   android:layout toStartOf="@+id/Female"
   android:checked="true"
   android:text="Male"
   android:textColor="@color/defaultTextColor"
```

```
android:textColorLink="@color/defaultTextColor" />
   <RadioButton
     android:id="@+id/Female"
     android:layout width="wrap content"
     android:layout_height="wrap_content"
     android:layout alignBottom="@+id/Male"
     android:layout_alignParentEnd="true"
     android:layout_alignTop="@+id/Gender"
     android:layout_marginEnd="20dp"
     android:text="Female"
     android:textColor="@color/defaultTextColor"
     android:textColorLink="@color/defaultTextColor" />
 </RadioGroup>
<EditText
   android:id="@+id/namevar"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:layout_alignParentEnd="true"
   android:layout below="@+id/radioGroup"
   android:ems="10"
   android:inputType="textPersonName"
   android:singleLine="true"
   android:textColor="@color/defaultTextColor"
   android:textColorLink="@color/defaultTextColor" />
 <EditText
   android:id="@+id/age"
   android:layout_width="wrap_content"
   android:layout height="wrap content"
   android:layout alignParentEnd="true"
   android:layout below="@+id/namevar"
   android:ems="10"
   android:gravity="right"
```

```
android:inputType="number"
  android:singleLine="true"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@android:color/background light"
  android:visibility="visible" />
<EditText
  android:id="@+id/weight"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_alignParentEnd="true"
  android:layout_below="@+id/height"
  android:ems="10"
  android:gravity="right"
  android:inputType="numberDecimal"
  android:singleLine="true"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:visibility="visible" />
<EditText
  android:id="@+id/height"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout alignParentEnd="true"
  android:layout below="@+id/age"
  android:ems="10"
  android:gravity="right"
  android:inputType="numberDecimal"
  android:singleLine="true"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textIsSelectable="false" />
<Button
```

```
android:id="@+id/calc"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_below="@+id/radioGroup1"
  android:layout_centerHorizontal="true"
  android:onClick="onClick"
  android:text="Calculate"
  android:textColor="?attr/actionMenuTextColor"
  android:textColorLink="@color/defaultTextColor" />
<RadioGroup
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:id="@+id/radioGroup1"
  android:orientation ="vertical"
  android:layout_below="@+id/Level"
  android:layout alignParentStart="true"
  android:textColor="@color/defaultTextColor"
  android:textSize="10sp" >
  <RadioButton
    android:id="@+id/r1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout alignParentStart="true"
    android:layout below="@+id/Level"
    android:text="Little to none"
    android:textColor="@color/defaultTextColor"
    android:textColorLink="@color/defaultTextColor"
    android:textSize="13sp" />
  <RadioButton
    android:id="@+id/r2"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
```

```
android:layout alignParentLeft="true"
  android:layout_alignParentStart="true"
  android:layout below="@id/r1"
  android:text="1 to 3x/week"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textSize="13sp" />
<RadioButton
  android:id="@+id/r3"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true"
  android:layout_below="@id/r2"
  android:text="3 to 5x/week"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textSize="13sp" />
<RadioButton
  android:id="@+id/r4"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout alignParentLeft="true"
  android:layout alignParentStart="true"
  android:layout_below="@id/r3"
  android:text="6 to 7x/week"
  android:textColor="@color/defaultTextColor"
  android:textColorLink="@color/defaultTextColor"
  android:textSize="13sp" />
<RadioButton
  android:id="@+id/r5"
  android:layout width="wrap content"
```

```
android:layout height="wrap content"
    android:layout_alignParentLeft="true"
    android:layout alignParentStart="true"
    android:layout below="@id/r4"
    android:text="2x/day"
    android:textColor="@color/defaultTextColor"
    android:textColorLink="@color/defaultTextColor"
    android:textSize="13sp" />
</RadioGroup>
<TextView
  android:id="@+id/result1"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_alignParentStart="true"
  android:layout_below="@+id/calc"
  android:layout marginTop="12dp"
  android:textColor="@color/defaultTextColor"
  android:textSize="20sp" />
<TextView
  android:id="@+id/Goals"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:text="Goals: "
  android:textAppearance="@style/TextAppearance.AppCompat"
  android:textColor="@color/defaultTextColor"
  android:textSize="15sp"
  android:layout below="@+id/weight"
  android:layout alignStart="@+id/radioGroup" />
<Spinner
  android:id="@+id/spinner"
  android:layout width="wrap content"
  android:layout height="wrap content"
```

```
android:spinnerMode="dialog"
android:textColor="@color/defaultTextColor"
android:layout_below="@+id/Goals"
android:layout_alignParentEnd="true"
android:layout_toEndOf="@+id/Level" />
</RelativeLayout>
```

# 13)activity main2

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:background="@drawable/gr2"
 android:layout_width="match_parent"
 android:layout height="match parent"
 tools:context=".MainActivity">
 <LinearLayout
    android:layout width="match parent"
    android:layout_height="match_parent">
    <lmageView
      android:id="@+id/imageView"
      android:layout marginStart="75dp"
      android:layout_width="wrap_content"
      android:layout_gravity="center"
      android:layout height="wrap content"
      app:srcCompat="@drawable/edited"/>
  </LinearLayout>
  <TableLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
```

```
<TableRow
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:gravity="bottom"
      android:layout_marginTop="500dp"
      android:layout marginBottom="25dp"
      <Button
        android:id="@+id/button"
        android:layout_width="300dp"
        android:layout height="50dp"
        android:layout_marginStart="50dp"
        android:background="@drawable/backgroundxml"
        android:text="LOG IN"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"
        android:textColor="#FFFFFF" />
    </TableRow>
    <TableRow>
      <Button
        android:id="@+id/button2"
        android:layout width="300dp"
        android:layout_height="50dp"
        android:layout marginStart="50dp"
        android:layout marginBottom="100dp"
        android:background="@drawable/backgroundxml"
        android:padding="4dp"
        android:text="REGISTER"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"
        android:textColor="#FFFFFF" />
    </TableRow>
 </TableLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

# 14) activity outline

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".OutlineActivity"
  android:paddingBottom="@dimen/activity_vertical_margin"
  android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  >
    <androidx.viewpager.widget.ViewPager
      xmlns:android="http://schemas.android.com/apk/res/android"
      android:id="@+id/pager"
      android:layout_width="match_parent"
      android:layout_height="match_parent"
      android:layout_alignParentTop="true" />
   <TextView
      android:layout width="90dp"
      android:layout_height="50dp"
      android:id="@+id/pageNum"
      android:layout alignParentStart="true"
      android:layout alignTop="@+id/pager"
      android:text="1/6" />
  </RelativeLayout>
15) activity reset
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:background="@drawable/gr2"
  android:gravity="center"
  android:orientation="vertical"
  tools:context=".Reset">
  <ImageView
    android:layout_width="@dimen/logo_w_h"
    android:layout_height="@dimen/logo_w_h"
    android:layout_gravity="center_horizontal"
    android:layout_marginBottom="10dp"
    android:src="@drawable/logo2"/>
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:padding="10dp"
    android:text="Forgot Password?"
    android:textColor="@android:color/white"
    android:textSize="20dp" />
<TextView
    android:layout width="350dp"
    android:layout height="wrap content"
    android:layout marginBottom="10dp"
    android:gravity="center horizontal"
    android:padding="@dimen/activity horizontal margin"
    android:text="We just need your registered Email Id to send you password reset
instructions."
    android:textColor="@android:color/white"
    android:textSize="16dp" />
  <EditText
```

```
android:id="@+id/email"
    android:layout_width="350dp"
    android:layout_height="wrap_content"
    android:layout marginTop="20dp"
    android:layout_marginBottom="10dp"
    android:hint="Email"
    android:padding="20dp"
    android:paddingTop="20dp"
    android:textSize="20sp"
    android:inputType="textEmailAddress"
    android:textColor="@android:color/white"
    android:textColorHint="@android:color/white"
    android:background="@drawable/custom background"/>
  <Button
    android:id="@+id/btn_reset_password"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:text="Reset Password"
    android:textColor="@android:color/black" />
<Button
    android:id="@+id/btn back"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="10dp"
    android:background="@null"
    android:text="back"
    android:textColor="@color/colorAccent" />
</LinearLayout>
```

### 16) activity signup

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
 xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
 android:fitsSystemWindows="true"
  android:background="@drawable/gr2">
 <LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:paddingTop="56dp"
    android:paddingLeft="24dp"
    android:paddingRight="24dp">
    <ImageView
      android:layout_width="wrap_content"
      android:layout_height="72dp"
      android:layout_gravity="center_horizontal"
      android:layout marginBottom="24dp"
      android:src="@drawable/logo2" />
    <EditText
      android:id="@+id/name1"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:drawableLeft="@drawable/ic action user"
      android:inputType="textPersonName"
      android:fontFamily="casual"
      android:hint="name"
      android:padding="20dp"
      android:paddingTop="20dp"
      android:textSize="20sp" />
    <EditText
```

```
android:id="@+id/email2"
 android:drawableLeft="@drawable/ic_email"
 android:layout width="match parent"
 android:layout_height="wrap_content"
 android:inputType="textEmailAddress"
 android:fontFamily="casual"
 android:hint="Email ID"
 android:padding="20dp"
 android:paddingTop="20dp"
  android:textSize="20sp" />
<EditText
  android:id="@+id/password2"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:drawableLeft="@drawable/ic_action_lock"
  android:fontFamily="casual"
 android:hint="Password"
 android:inputType="textPassword"
 android:padding="20dp"
 android:paddingTop="20dp"
  android:textSize="20sp" />
<EditText
 android:id="@+id/mobile"
 android:layout width="match parent"
 android:layout height="wrap content"
 android:drawableLeft="@drawable/ic smartphone"
 android:fontFamily="casual"
 android:hint="mobile"
 android:inputType="phone"
 android:padding="20dp"
 android:paddingTop="20dp"
  android:textSize="20sp" />
```

```
<Button
      android:id="@+id/button3"
      android:layout_width="200dp"
      android:layout_height="50dp"
      android:layout_marginStart="80dp"
      android:fontFamily="casual"
      android:gravity="center"
      android:text="Create an Account" />
    <Button android:id="@+id/link login"
      android:layout_width="200dp"
      android:layout_height="70dp"
      android:layout_marginBottom="50dp"
      android:layout_marginStart="80dp"
      android:text="Already a member? Login"
      android:gravity="center"
      android:textSize="16dp"/>
    <ProgressBar
      android:id="@+id/progressBar"
      android:layout width="30dp"
      android:layout height="30dp"
      android:layout_gravity="center|bottom"
      android:layout marginBottom="20dp"
                                                 />
  </LinearLayout>
</ScrollView>
17) activity water
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
```

```
xmlns:custom="http://schemas.android.com/apk/res-auto"
android:background="@drawable/main_page_backgound">
<LinearLayout
  android:layout width="match parent"
  android:layout_height="wrap_content"
  android:orientation="vertical"
  android:id="@+id/main view"
  android:padding="20dp">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Today you drank"
    android:textColor="@color/colorPrimaryDark"
    android:paddingTop="60dp"
    android:textSize="20sp"
    android:layout_gravity="center_horizontal"/>
  <com.github.lzyzsd.circleprogress.DonutProgress
    android:id="@+id/donut_progress"
    android:layout width="170dp"
    android:layout height="170dp"
    android:layout_marginTop="10dp"
    android:layout gravity="center"
    custom:donut_finished_color="@color/colorPrimaryDark"
    custom:donut unfinished stroke width="5dp"
    custom:donut unfinished color="@color/blue"
    custom:donut finished stroke width="10dp"
    custom:donut text size="50sp"
    custom:donut text color="@color/colorPrimaryDark"/>
  <TextView
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:textColor="@color/colorPrimaryDark"
```

```
android:layout marginStart="180dp"
 android:textSize="15sp"
  android:id="@+id/choosen drink text"
                                             />
<Button
 android:layout_width="match_parent"
 android:layout height="wrap content"
 android:id="@+id/add drink button"
 android:text="add a drink"
 android:layout_marginLeft="30dp"
 android:layout marginRight="30dp"
 android:textColor="@color/colorPrimaryDark"
 android:tint ="@color/colorPrimaryDark"
 android:layout_gravity="center horizontal"
 android:layout_marginTop="10dp"
  android:background="@drawable/drink_button"/>
<LinearLayout
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
  android:orientation="horizontal"
 android:layout gravity="center horizontal"
  android:paddingTop="30dp">
  <ImageButton</pre>
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:id="@+id/log button"
    android:src = "@drawable/history icon"
    android:tint="@color/colorPrimaryDark"
    android:padding="7dp"
    android:background="@drawable/circle button/>
  <ImageButton</pre>
    android:layout_width="wrap_content"
    android:layout height="wrap content"
```

```
android:id="@+id/outlines_button"
        android:src = "@drawable/info"
        android:tint="@color/colorPrimaryDark"
        android:padding="7dp"
        android:layout_marginLeft="15dp"
        android:background="@drawable/circle button"
                                                               />
      <ImageButton</pre>
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/chart_button"
        android:src = "@drawable/show_chart"
        android:tint="@color/colorPrimaryDark"
        android:padding="7dp"
        android:layout_marginLeft="15dp"
        android:background="@drawable/circle_button" />
      <ImageButton</pre>
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/setting button"
        android:src = "@drawable/setting icon"
        android:tint="@color/colorPrimaryDark"
        android:padding="7dp"
        android:layout marginLeft="15dp"
        android:background="@drawable/circle button"/>
    </LinearLayout>
  </LinearLayout>
</RelativeLayout>
```

### 18)add drink dialog

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout\_width="fill\_parent"</pre>

```
android:layout height="fill parent"
android:orientation="vertical"
android:paddingTop="@dimen/activity horizontal margin"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingBottom="@dimen/activity horizontal margin">
<LinearLayout
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:orientation="horizontal"
  android:paddingTop="10dp"
  android:layout_gravity="center">
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/water glass button"
    android:padding="10dp"
    android:drawableTop="@drawable/water_glass_big"
    android:background="@drawable/drink_icon_backgorund"
    android:textColor="@color/colorPrimaryDark"
                                                     />
  <Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:id="@+id/water bottle button"
    android:drawableTop="@drawable/water_bottle_big"
    android:layout marginStart="10dp"
    android:padding="10dp"
    android:textColor="@color/colorPrimaryDark"
    android:background="@drawable/drink_icon backgorund"
                                                                 />
</LinearLayout>
<LinearLayout
  android:layout width="wrap content"
```

```
android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout gravity="center"
    android:paddingTop="20dp"
    android:paddingRight="10dp"
    android:paddingLeft="10dp"
    android:weightSum="1">
    <Button
      android:id="@+id/other_size_button"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:background="@drawable/round_corner"
      android:text="other size"
      android:textColor="@color/colorPrimaryDark"
      android:layout_marginStart="10dp"
    <Button
      android:id="@+id/cancel_button"
      android:layout_width="wrap_content"
      android:layout height="wrap content"
      android:text="cancel"
      android:background="@drawable/round_corner"
      android:textColor="@color/colorPrimaryDark"
      android:layout marginLeft="10dp"/>
  </LinearLayout>
</LinearLayout>
```

### 19)app bar data classess

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"</pre>
```

# 20)congratulation dialog

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
 xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout width="match parent"
  android:layout_height="match_parent"
  android:layout_alignParentLeft="true"
  android:layout alignParentStart="true"
  android:layout alignParentTop="true"
  android:background="@android:color/transparent"
  android:orientation="vertical"
  android:weightSum="1">
  <FrameLayout
    android:layout_width="wrap_content"
    android:layout height="200dp"
    android:layout_gravity="center_horizontal">
    <TextView
```

```
android:ems="10"
  android:layout_width="263dp"
  android:layout height="145dp"
  android:background="@android:drawable/editbox background normal"
  android:inputType="textMultiLine"
  android:layout marginTop="40dp"
  android:scrollbars="vertical"
  android:text="Congratulation!"
  android:id="@+id/text1"
  android:textStyle="bold"
  android:textSize="30dp"
  android:textColor="@color/blue"
  android:paddingBottom="50dp"
  android:gravity="bottom|center_horizontal"
  android:layout_marginLeft="70dp" />
<ImageView
  android:layout_marginTop="0dp"
  android:layout_width="match_parent"
  android:layout height="79dp"
  android:layout gravity="top|center"
  android:src="@drawable/champion" />
<TextView
  android:layout width="wrap content"
  android:layout height="53dp"
  android:text="the norm is achieved"
  android:id="@+id/textView5"
  android:textStyle="bold"
  android:textColor="@color/blue"
  android:gravity="center"
  android:layout gravity="center"
  android:layout_marginBottom="20dp"
  android:paddingTop="20dp" />
```

```
<ImageView
    android:layout_width="53dp"
    android:layout_height="53dp"
    android:id="@+id/imageView2"
    android:layout_gravity="center_horizontal|bottom"
    android:src="@drawable/button_round_cancel_icon"
    android:layout_marginTop="10dp" />
    </FrameLayout>
</LinearLayout>
```

# 21)content\_data\_classess

```
<?xml version="1.0" encoding="utf-8"?>
  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
    android:layout width="fill parent"
    android:layout height="fill parent"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:paddingLeft="16dp"
    android:paddingRight="16dp"
    android:layout alignParentTop="true"
    android:layout alignParentStart="true"
    xmlns:tools="http://schemas.android.com/tools"
    app:layout behavior="@string/appbar scrolling view behavior"
    tools:context=".Data Classes"
    tools:showIn="@layout/app bar data classess">
    <TextView
      android:id="@+id/textView3"
      android:layout width="wrap content"
      android:layout_height="wrap_content"
      android:gravity="left"
      android:text="Today"
      android:textAppearance="@style/TextAppearance.AppCompat"
```

```
android:textColor="@color/defaultTextColor"
    android:textSize="20sp"
    android:layout alignParentTop="true"
    android:layout alignParentStart="true" />
  <TextView
    android:id="@+id/delete"
    android:layout_width="wrap_content"
    android:gravity="center"
    android:textSize="25sp"
    android:textAppearance="@style/TextAppearance.AppCompat"
    android:textColor="@color/defaultTextColor"
    android:layout_height="wrap_content"
    android:text="TextView"
    android:layout_below="@+id/textView3"
    android:layout_centerHorizontal="true" />
<TextView
  android:id="@+id/resulttext"
  android:layout_width="match_parent"
  android:layout height="wrap content"
  android:layout below="@+id/delete"
  android:layout_centerHorizontal="true"
  android:layout marginTop="145dp"
  android:gravity="center"
  android:paddingBottom="10dp"
  android:paddingTop="10dp"
  android:text="TextView"
  android:textAlignment="center"
  android:textColor="@color/defaultTextColor" />
<TextView
  android:id="@+id/total cals"
  android:layout_width="match_parent"
  android:layout height="wrap content"
```

```
android:layout alignStart="@+id/resulttext"
  android:layout_below="@+id/resulttext"
  android:gravity="center"
  android:paddingBottom="10dp"
  android:paddingTop="10dp"
  android:text="TextView"
  android:textAlignment="center"
  android:textColor="@color/defaultTextColor" />
<TextView
  android:id="@+id/total time"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:layout_alignParentStart="true"
  android:layout_below="@+id/total_cals"
  android:gravity="center"
  android:paddingBottom="10dp"
  android:paddingTop="10dp"
  android:text="TextView"
  android:textAlignment="center"
  android:textColor="@color/defaultTextColor" />
<TextView
  android:id="@+id/suggest"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:layout below="@+id/total time"
  android:layout centerHorizontal="true"
  android:gravity="center"
  android:paddingTop="10dp"
  android:text="TextView"
  android:textAlignment="center"
  android:textColor="@color/defaultTextColor" />
<Button
```

```
android:id="@+id/reset"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/delete"
    android:layout_centerHorizontal="true"
    android:layout marginTop="18dp"
    android:onClick="reset"
    android:text="Reset Calorie" />
</RelativeLayout>
22)list_entry
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:id="@+id/LinearLayout0"</pre>
  android:layout_width="fill_parent"
xmlns:android="http://schemas.android.com/apk/res/android"
  android:paddingLeft="10sp" android:paddingRight="10sp"
  android:layout height="wrap content"
  android:orientation="vertical" android:paddingTop="2sp">
  <LinearLayout
    android:layout width="wrap content"
    android:layout height="fill parent"
    android:orientation="horizontal">
    <TextView android:layout height="wrap content"
      android:layout_width="fill_parent" android:id="@+id/tvDate"
      android:text="Date" android:typeface="sans" android:textSize="16sp"
android:textStyle="bold"
      android:textColor="@color/defaultTextColor"></TextView>
    <Button
      android:id="@+id/btnRemove"
      android:layout_width="32dp"
```

android:layout height="25dip"

```
android:text="x"
    android:textSize="8dp" />
</LinearLayout>
<LinearLayout android:id="@+id/LinearLayout01"</p>
  android:layout_height="wrap_content"
  android:layout width="fill parent">
  <TextView android:id="@+id/TextView01" android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:textStyle="bold"
    android:text="Description: " android:textSize="13sp"
    android:textColor="@color/defaultTextColor"></TextView>
  <TextView android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:text="filler"
    android:id="@+id/tvDescription" android:textSize="13sp"
    android:textColor="@color/defaultTextColor"></TextView>
</LinearLayout>
<LinearLayout android:id="@+id/LinearLayout02"</pre>
  android:layout_height="wrap_content"
  android:layout_width="fill_parent">
  <TextView android:id="@+id/TextView02" android:layout width="wrap content"
    android:layout height="wrap content" android:textStyle="bold"
    android:text="Total Calories: " android:textSize="13sp"
    android:textColor="@color/defaultTextColor"></TextView>
  <TextView android:layout width="wrap content"
    android:layout height="wrap content" android:text="filler"
    android:id="@+id/tvTotalCalories" android:textSize="13sp"
    android:textColor="@color/defaultTextColor"></TextView>
</LinearLayout>
<LinearLayout android:id="@+id/LinearLayout03"</pre>
  android:layout_height="wrap content"
  android:layout width="fill parent">
  <TextView android:id="@+id/TextView03" android:layout width="wrap content"
    android:layout height="wrap content" android:textStyle="bold"
```

```
android:text="Calories per weight/vol/serving: " android:textSize="13sp"
      android:textColor="@color/defaultTextColor"></TextView>
    <TextView android:layout width="wrap content"
      android:layout height="wrap content" android:text=""
      android:id="@+id/tvCalPerWeight" android:textSize="13sp"
      android:textColor="@color/defaultTextColor"></TextView>
  </LinearLayout>
  <LinearLayout android:id="@+id/LinearLayout04"</pre>
    android:layout height="wrap content"
    android:layout width="fill parent">
    <TextView android:id="@+id/TextView04" android:layout width="wrap content"
      android:layout_height="wrap_content" android:textStyle="bold"
      android:text="Per weight/vol/serving: " android:textSize="13sp"
      android:textColor="@color/defaultTextColor"></TextView>
    <TextView android:layout_width="wrap_content"
      android:layout height="wrap content" android:text=""
      android:id="@+id/tvPerWeight" android:textSize="13sp"
      android:textColor="@color/defaultTextColor"></TextView>
  </LinearLayout>
  <LinearLayout android:id="@+id/LinearLayout05"</pre>
    android:layout_height="wrap_content"
    android:layout width="fill parent">
    <TextView android:id="@+id/TextView05" android:layout width="wrap content"
      android:layout height="wrap content" android:textStyle="bold"
      android:text="Total weight/vol/serving consumed: " android:textSize="13sp"
      android:textColor="@color/defaultTextColor"></TextView>
    <TextView android:layout width="wrap content"
      android:layout height="wrap content" android:text=""
      android:id="@+id/tvTotalWeightCon" android:textSize="13sp"
android:layout weight="1"
      android:textColor="@color/defaultTextColor"></TextView>
```

```
</LinearLayout>
```

# 23) number picker dialog

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout width="match parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:paddingLeft="@dimen/activity horizontal margin"
  android:paddingRight="@dimen/activity horizontal margin"
  android:paddingBottom="@dimen/activity horizontal margin">
  <NumberPicker
    android:id="@+id/numberPicker"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout alignParentTop="true"
    android:layout centerHorizontal="true" />
  <Button
    android:id="@+id/set button"
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:background="@drawable/round corner"
    android:layout_marginLeft="10dp"
    android:text="set"
    android:textColor="@color/colorPrimaryDark"
    />
</LinearLayout>
24) settings toolbar
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.Toolbar
```

```
xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:app="http://schemas.android.com/apk/res-auto"
  android:id="@+id/toolbar"
  app:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
  android:layout_width="match_parent"
  android:layout height="wrap content"
  android:minHeight="?attr/actionBarSize"
  app:navigationContentDescription="@string/abc_action_bar_up_description"
  android:background="?attr/colorPrimary"
  app:navigationIcon="?attr/homeAsUpIndicator"
  app:title="@string/action_settings" />
25)time log activity
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
 android:layout width="match parent"
 android:layout height="match parent"
 android:background="@drawable/main_page_backgound">
  <ListView
    android:id="@+id/time log list"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:divider="@color/colorPrimaryDark"
    android:dividerHeight="4px"/>
</RelativeLayout>
26)time_log_raw
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 android:layout_width="match_parent"
 android:layout_height="match_parent">
```

```
<LinearLayout
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:orientation="horizontal"
 android:padding="10dp"
 android:weightSum="1">
 <ImageButton</pre>
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:src="@drawable/water glass"
   android:padding="10dp"
   android:layout_marginLeft="10dp"
   android:background="@drawable/circle_button"
   android:id="@+id/containerTyp"
   android:maxHeight="20dp"
    android:maxWidth="20dp" />
 <TextView
    android:layout_width="wrap_content"
   android:layout height="wrap content"
   android:layout marginLeft="20dp"
   android:id="@+id/amount"
   android:paddingTop="10dp"
   android:textSize="20dp"
   android:textStyle="bold"
   android:textColor="@color/colorPrimaryDark"/>
  <TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:id="@+id/time"
   android:gravity="right"
   android:paddingRight="10dp"
    android:paddingTop="10dp"
```

```
android:textSize="20dp"
android:textColor="@color/colorPrimaryDark"
android:dividerHeight="2dp"
android:layout_weight="1" />
</LinearLayout>
</RelativeLayout>
```

# 27)time picker dialog

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:orientation="vertical" android:layout_width="match_parent"
  android:layout height="match parent"
  android:theme="@android:style/Theme.Holo.Light" >
  <TimePicker
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:id="@+id/timePicker"
    android:layout_gravity="center_horizontal">
    <requestFocus />
  </TimePicker>
  <LinearLayout
    android:orientation="horizontal"
    android:layout width="match parent"
    android:layout_height="87dp"
    android:weightSum="1"
    android:gravity="center">
    <Button
      android:id="@+id/set_time_button"
      android:layout width="111dp"
      android:layout_height="wrap_content"
      android:background="@drawable/round_corner"
```

```
android:layout marginLeft="10dp"
      android:text="set"
      android:textColor="@color/colorPrimaryDark"
      android:layout weight="0.13"/>
    <Button
      android:id="@+id/cancel time button"
      android:layout_width="111dp"
      android:layout_height="wrap_content"
      android:background="@drawable/round corner"
      android:layout marginLeft="10dp"
      android:text="Cancel"
      android:textColor="@color/colorPrimaryDark"
      android:layout weight="0.13"/>
  </LinearLayout>
</LinearLayout>
28)widger layout
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:id="@+id/layout"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:padding="10dp"
  android:background="@drawable/w shape"
  android:orientation="horizontal">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    style="@android:style/TextAppearance.Medium"
    android:textSize="50sp"
    android:layout gravity="center"
```

```
android:id="@+id/drank_per_textview"
 android:textColor="@color/colorPrimaryDark"
 android:layout marginStart="10dp"
<LinearLayout
 android:layout_width="wrap_content"
 android:layout height="match parent"
 android:layout marginStart="15dp"
 android:orientation="vertical">
  <TextView
    android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:textColor="@color/colorPrimaryDark"
   android:textSize="20sp"
   android:layout_marginTop="10dp"
   style="@android:style/TextAppearance.Medium"
    android:text="Drank"/>
 <TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   style="@android:style/TextAppearance.Medium"
    android:textColor="@color/white"
   android:id="@+id/drank textview"
   android:textSize="15sp"/>
</LinearLayout>
<ImageView
 android:id="@+id/refresh"
 style="@android:style/TextAppearance.Medium"
 android:layout width="wrap content"
 android:layout height="wrap content"
 android:paddingLeft="20dp"
 android:layout gravity="center"
 android:src= "@drawable/refresh"
```

```
</lmageView>
</LinearLayout>
```

### 29)fragment prefs

```
<PreferenceScreen xmlns:android="http://schemas.android.com/apk/res/android"
         xmlns:preference="http://schemas.android.com/apk/res-auto">
 <PreferenceCategory android:title="Daily Need Measurement"</pre>
   > </PreferenceCategory>
  <com.example.healthongo.NumberPickerPreference</pre>
    android:key="key weight number"
    android:title="@string/pref weight title"
    android:icon="@drawable/weight icon"
    preference:maxValue="@integer/weight max vlaue"
    preference:minValue="@integer/weight min value"
    android:summary="Add your weight!"
    preference:wrapSelectorWheel="false
                                          />
  <SwitchPreference
    android:defaultValue="false"
    android:icon="@drawable/training icon"
    android:key="key training"
    android:title="@string/pref training title"
  <com.example.healthongo.NumberPickerPreference</pre>
    android:defaultValue="2500"
    android:key="key_water_recommendation"
    android:title="@string/pref_water_need_title"
    android:icon="@drawable/icon water drop"
    preference:maxValue="@integer/water_recom_number max value"
    preference:minValue="@integer/water_recom_number_min_value"
    android:summary="2500 ml"
    preference:wrapSelectorWheel="false" />
  <Preference android:layout="@layout/divider">
```

```
</Preference>
<Pre><PreferenceCategory</pre>
  android:title="Container Size "
  <ListPreference
    android:key="key_glass"
    android:title="Glass size"
    android:defaultValue="250"
    android:icon="@drawable/water_glass"
    android:entries="@array/glass_size_names_array"
    android:entryValues="@array/glass_size_values array"/>
  <ListPreference
    android:key="key_bottle"
    android:title="Bottle size"
    android:defaultValue="1500"
    android:entries="@array/bottle_size_names_array"
    android:entryValues="@array/bottle_size_values_array"
    android:icon="@drawable/water_bottle"
                                                 />
</PreferenceCategory>
<Preference android:layout="@layout/divider">
</Preference>
<Pre><PreferenceCategory</pre>
  android:title="Notifications and Sounds"
  <SwitchPreference
    android:defaultValue="false"
    android:key="key notif enable"
    android:icon="@drawable/icon notification"
    android:title="@string/pref notif enable title"
                                                         />
  <SwitchPreference
    android:defaultValue="false"
    android:icon="@drawable/icon sound"
    android:key="key_notif_sound"
    android:title="@string/pref notif sound title"
                                                       />
```

```
</PreferenceCategory>
  <Preference
    android:key="key_from_time"
    android:defaultValue="8:0"
    android:icon="@drawable/clock_from_icon"
    android:title="From"
    android:enabled="false"/>
  <Preference
    android:key="key_to_time"
    android:defaultValue="20:0"
    android:icon="@drawable/clock_to_icon"
    android:title="To"
    android:enabled="false"/>
  <com.example.healthongo.NumberPickerPreference</pre>
    android:enabled="false"
    android:icon="@drawable/interval_icon"
    android:defaultValue="@integer/defualt_time_interval"
    android:key="key_notif_interval_time"
    android:title="@string/pref notif interval time title"
    preference:maxValue="@integer/notif time interval max value"
    preference:minValue="@integer/notif_time_interval_min_value"
    preference:wrapSelectorWheel="false"
</PreferenceScreen>
30)widget info
<?xml version="1.0" encoding="utf-8"?>
<appwidget-provider
 xmlns:android="http://schemas.android.com/apk/res/android"
  android:initialLayout="@layout/widger layout"
  android:minHeight="90dp"
  android:minWidth="300dp"
```

```
android:updatePeriodMillis="300000">
</appwidget-provider>
```

#### menu:

### 1)data classess

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:app="http://schemas.android.com/apk/res-auto">
  <group >
    <item
      android:id="@+id/entry"
      android:title="Add Entry" />
    <item
      android:id="@+id/log"
      android:title="View Record" />
    <item
      android:id="@+id/edit"
      android:title="Edit Info" />
  </group>
<group>
  <item
    android:id="@+id/action settings"
    android:orderInCategory="100"
    android:title="Exit" />
</group>
</menu>
```

# 2)menu time log

```
<menu xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
tools:context="a2dv606_aa223de.assignment_2.MyCountries.My_Countries">
  <item android:id="@+id/add_drink"
    android:icon="@drawable/plus icon"
    app:showAsAction="always"
    android:title=""/>
  <item android:id="@+id/sort_by_time_desc"
    android:title="Sort by time DESC" ></item>
  <item android:id="@+id/sort_by_time_ASC"
    android:title="Sort by time ASC" ></item>
  <item android:id="@+id/sort_by_amount_desc"
    android:title="Sort by water drank DESC" ></item>
  <item android:id="@+id/sort_by_amount_asc"
    android:title="Sort by water drank ASC" ></item>
</menu>
3)navigation
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<group>
  <item android:id="@+id/contact"
    android:title="Contact us"
    android:icon="@drawable/ic local phone"/>
  <item android:id="@+id/logout"
    android:title="Setting"
    android:icon="@drawable/ic_settings_black_24dp"/>
</group>
  <item android:id="@+id/Aboutus"
    android:title="SHARE"
    android:icon="@drawable/ic send"/>
</menu>
```

# Java Code:

### 1)BootBroadcastReceiver

```
package com.example.healthongo.BroadcastReceivers;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import com.example.healthongo.AlarmHelper;
import com.example.healthongo.DrinkDataSource;
import com.example.healthongo.PrefsHelper;
public class BootBroadcastReceiver extends BroadcastReceiver {
  @Override
  public void onReceive(Context pContext, Intent intent) {
    DrinkDataSource db= new DrinkDataSource(pContext);
    db.open();
   int waterNeed= PrefsHelper.getWaterNeedPrefs(pContext);
   db.createMissingDateLog(0,waterNeed);
   AlarmHelper.setDBAlarm(pContext);
 }}
```

### 2) <u>DateLogBroadcastReceiver</u>

```
package com.example.healthongo.BroadcastReceivers;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.preference.PreferenceManager;
import com.example.healthongo.AlarmHelper;
import com.example.healthongo.DateHandler;
import com.example.healthongo.DrinkDataSource;
import com.example.healthongo.PreferenceKey;
import com.example.healthongo.PrefsHelper;
```

```
import java.util.Date;
public class DateLogBroadcastReceiver extends BroadcastReceiver {
  private DrinkDataSource db;
  private Context mContext;
  @Override
  public void onReceive(Context context, Intent intent) {
    mContext =context;
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    boolean NotificationSet= prefs.getBoolean(PreferenceKey.PREF_IS_ENABLED,true);
        insertDateLog();
         if(NotificationSet)
         { AlarmHelper.setNotificationsAlarm(context);
          AlarmHelper.setCancelNotificationAlarm(context);} }
  private void insertDateLog() {
    int waterNeed= PrefsHelper.getWaterNeedPrefs(mContext);
    db= new DrinkDataSource(mContext);
    db.open();
    db.createDateLog(0,waterNeed, DateHandler.getCurrentDate());
    System.out.println("db alarm fired "+ DateHandler.getCurrentDate());
    System.out.println("new record inserted: "+new Date()+" water need: "+waterNeed+"
Water drank: "+0);
    Intent local = new Intent();
    local.setAction("com.update.view.action");
    mContext.sendBroadcast(local);
 }}
3) AddDialog
package com.example.healthongo;
import android.app.Dialog;
import android.content.Context;
import android.media.MediaPlayer;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class AddDialog extends Dialog implements View.OnClickListener{
  private Context context;
  private final String GLASS="glass";
  private final String BOTTLE="bottle";
  private int glassSize;
  private int bottleSize;
  private DrinkDataSource db;
  private MediaPlayer mediaPlayer;
  private Button otherSize, cancel, glassButton, bottleButton;
  public AddDialog(Context context, DrinkDataSource db){
    super(context);
    this.context = context;
    this.db= db; }
 @Override
  public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.add_drink_dialog);
    mediaPlayer= MediaPlayer.create(context, R.raw.splash_water);
    otherSize = (Button) findViewById(R.id.other_size_button);
    cancel = (Button) findViewById(R.id.cancel_button);
    bottleButton= (Button)findViewByld(R.id.water bottle button);
    glassButton= (Button) findViewById(R.id.water_glass_button);
    bottleButton.setOnClickListener(this);
    glassButton.setOnClickListener(this);
    cancel.setOnClickListener(this);
    otherSize.setOnClickListener(this);
    setTitle("Select drink");
    loadContainerSizePrefs(); }
  public void onClick(View v) {
```

```
int id = v.getId();
    switch (id){
       case R.id.water_bottle_button:
        addBottle();
        break;
      case R.id.water_glass_button:
        addGlass();
        break;
      case R.id.cancel_button:
       dismiss();
        break;
      case R.id.other_size_button:
        showOtherSizeDialog();
        break;}
    dismiss(); }
  private void showOtherSizeDialog() {
    OtherSizeDialog otherSizeDialog = new OtherSizeDialog(context, db);
    otherSizeDialog.show();
    dismiss(); }
  private void playSound() {
    if (PrefsHelper.getSoundsPrefs(context))
      mediaPlayer.start(); }
  private void addGlass(){
   int perBefore= db.getConsumedPercentage();
    db.createTimeLog(glassSize,GLASS,
DateHandler.getCurrentDate(),DateHandler.getCurrentTime());
    db.updateConsumedWaterForTodayDateLog(glassSize);
    updateView(perBefore);
    playSound();
    dismiss(); }
  private void addBottle() {
    int perBefore= db.getConsumedPercentage();
```

```
db.createTimeLog(bottleSize,BOTTLE,DateHandler.getCurrentDate(),DateHandler.getCurrent
Time());
    db.updateConsumedWaterForTodayDateLog(bottleSize);
    updateView(perBefore);
    playSound();
    dismiss(); }
  private void updateView(int perBefore) {
    int perValue= db.getConsumedPercentage();
   Water.circleProgress.setProgress(perValue);
Water.choosenAmountTv.setText(String.valueOf(db.geConsumedWaterForToadyDateLog()+
" out of "+
        PrefsHelper.getWaterNeedPrefs(context)+" ml"));
      if (perValue==100&&perBefore<100) {
        congratulationDialog c = new congratulationDialog(context);
        c.show();
                       } }
  private void loadContainerSizePrefs() {
    String glassSizeStr= PrefsHelper.getGlassSizePrefs(context);
    String bottleSizeStr = PrefsHelper.getBottleSizePrefs(context);
    this.glassSize = Integer.valueOf(glassSizeStr);
    this.bottleSize = Integer.valueOf(bottleSizeStr);
    glassButton.setText(glassSizeStr+ " ml");
    bottleButton.setText(bottleSizeStr+ " ml");
 }}
4) StopNotificationBroadcastReceiver
package com.example.healthongo.BroadcastReceivers;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import com.example.healthongo.AlarmHelper;
public class StopNotificationBroadcastReceiver extends BroadcastReceiver {
  @Override
```

```
public void onReceive(Context context, Intent intent) {
    AlarmHelper.stopNotificationsAlarm(context);
    System.out.println("fired!");
}}
```

# 5) AddNewEntryActivity

```
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class AddNewEntryActivity extends AppCompatActivity {
  private EditText calPerWeight;
  private EditText perWeight;
  private EditText totalWeight;
  private EditText totalCalories;
  private EditText date;
  private EditText description;
  private Button submitButton;
  private TextWatcher watcher;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_add_new_entry);
    calPerWeight = (EditText) findViewById(R.id.calories_per_weight_text);
    perWeight = (EditText) findViewById(R.id.per_weight_text);
```

```
totalWeight = (EditText) findViewById(R.id.total_weight_text);
    totalCalories = (EditText) findViewById(R.id.total_calories_text);
    date = (EditText) findViewById(R.id.date_text);
    description = (EditText) findViewById(R.id.description_text);
    submitButton = (Button) findViewById(R.id.submit_button);
    watcher = new LocalTextWatcher();
    calPerWeight.addTextChangedListener(watcher);
    perWeight.addTextChangedListener(watcher);
    totalWeight.addTextChangedListener(watcher);
    totalCalories.addTextChangedListener(watcher);
    updateSubmitButton();
    automateDate();}
  private void automateDate() {
    Date today = new Date();
    TextView tv = (TextView) findViewById(R.id.date_text);
    tv.setText(new SimpleDateFormat("yyyy-MM-dd").format(today));}
public void createEntry(View view) {
    Date d:
    String de;
    int totalCal = 0;
    float calPerWeightf, perWeightf, totalWeightConf = 0;
    LogEntry I;
    d = convertToDate(date.getText().toString());
    de = description.getText().toString();
    if (!totalCalories.getText().toString().equals("")) {
      totalCal = Integer.parseInt(totalCalories.getText().toString());
      I = new LogEntry(d, de, totalCal);
    } else {
      calPerWeightf = Float.parseFloat(calPerWeight.getText().toString());
      perWeightf = Float.parseFloat(perWeight.getText().toString());
      totalWeightConf = Float.parseFloat(totalWeight.getText().toString());
      I = new LogEntry(d, de, calPerWeightf, perWeightf, totalWeightConf);
                                                                               }
```

```
LogManager.writeToCalorieLog(I, this);
    finish(); }
  public void returnToPrevActivity(View view) {
    finish(); }
@SuppressLint("SimpleDateFormat")
  private Date convertToDate(String s) {
    Date date = new Date();
    try {
      SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd");
      date = format.parse(s);
    } catch (ParseException e) { e.printStackTrace(); }
    return date; }
  private void updateSubmitButton() {
    boolean enabled = (checkEditText(calPerWeight) &&
        checkEditText(perWeight) &&
        checkEditText(totalWeight)) || (checkEditText(totalCalories));
    submitButton.setEnabled(enabled); }
  private void updateTextFields() {
    boolean totalCalEnabled = checkEditText(calPerWeight) ||
        checkEditText(perWeight) ||
        checkEditText(totalWeight);
    boolean othersEnabled = checkEditText(totalCalories);
    totalCalories.setEnabled(!totalCalEnabled);
    calPerWeight.setEnabled(!othersEnabled);
    perWeight.setEnabled(!othersEnabled);
    totalWeight.setEnabled(!othersEnabled);}
  private boolean checkEditText(EditText edit) {
    return !edit.getText().toString().equals(""); }
  private class LocalTextWatcher implements TextWatcher {
    @Override
    public void afterTextChanged(Editable s) {
      updateSubmitButton();
```

```
updateTextFields();
    }
         @Override
    public void beforeTextChanged(CharSequence s, int start, int count, int after) }
    @Override
    public void onTextChanged(CharSequence s, int start, int count, int after) {
                                                                              }
 }}
6) AlarmHelper
package com.example.healthongo;
import android.app.AlarmManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.preference.PreferenceManager;
public class AlarmHelper {
  public static void setDBAlarm(Context context) {
    boolean alarmDown = (PendingIntent.getBroadcast(context, 90,
        new Intent(context, DateLogBroadcastReceiver.class),
        PendingIntent.FLAG_NO_CREATE) == null);
    if(alarmDown) {
      Calendar calendar = Calendar.getInstance();
      calendar.set(Calendar.HOUR_OF_DAY,0);
      calendar.set(Calendar.MINUTE,0);
      calendar.set(Calendar.SECOND,0);
      calendar.add(Calendar.DAY_OF_YEAR,1);
      Intent mIntent = new Intent(context, DateLogBroadcastReceiver.class);
      PendingIntent pendingIntent = PendingIntent.
          getBroadcast(context,90,mIntent, PendingIntent.FLAG UPDATE CURRENT);
      AlarmManager alarmManager =
(AlarmManager)context.getSystemService(ALARM SERVICE);
alarmManager.setRepeating(AlarmManager.RTC_WAKEUP,calendar.getTimeInMillis(),
```

```
AlarmManager.INTERVAL_DAY,pendingIntent); }}
  public static void setNotificationsAlarm(Context mContext) {
    boolean isAlarmUp = (PendingIntent.getBroadcast(mContext, 101, new
Intent(mContext, NotificationReciever.class)
        , PendingIntent.FLAG_UPDATE_CURRENT)!= null);
       if(isAlarmUp) {
        stopNotificationsAlarm(mContext);
        }
         SharedPreferences prefs =
PreferenceManager.getDefaultSharedPreferences(mContext);
         String from = prefs.getString(PreferenceKey.FROM_KEY, "8:0");
         int interval = prefs.getInt(PreferenceKey.PREF_INTERVAL, 2);
         String[] values = from.split(":");
         String hr = values[0];
         String mt = values[1];
         Calendar calendar = Calendar.getInstance();
         Calendar now = Calendar.getInstance();
         calendar.set(Calendar.HOUR_OF_DAY, Integer.valueOf(hr));
         calendar.set(Calendar.MINUTE, Integer.valueOf(mt));
         calendar.set(Calendar.SECOND, 0);
         Intent nIntent = new Intent(mContext, NotificationReciever.class);
         PendingIntent pendingIntent = PendingIntent.getBroadcast(mContext, 101,
nIntent, PendingIntent.FLAG_UPDATE_CURRENT);
         AlarmManager alarmManager = (AlarmManager)
mContext.getSystemService(ALARM_SERVICE);
         if (now.after(calendar)) {
           alarmManager.setRepeating(AlarmManager.RTC WAKEUP,
now.getTimeInMillis()+600000, 1000 * 60 * 60 * interval, pendingIntent);
         } else {
           alarmManager.setRepeating(AlarmManager.RTC WAKEUP,
calendar.getTimeInMillis(), 1000 * 60 * 60 * interval, pendingIntent);
         }}
```

```
public static void stopNotificationsAlarm(Context mContext){
    AlarmManager alarmManager =
(AlarmManager)mContext.getSystemService(ALARM_SERVICE);
    Intent mIntent = new Intent(mContext,NotificationReciever.class);
    PendingIntent pendingIntent = PendingIntent.
        getBroadcast(mContext,101,mIntent, PendingIntent.FLAG_UPDATE_CURRENT);
    if(alarmManager!=null)
    { alarmManager.cancel(pendingIntent);} }
  public static void setCancelNotificationAlarm(Context context){
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    String to = prefs.getString(PreferenceKey.TO_KEY, "20:0");
    String[] values = to.split(":");
    String hr = values[0];
    String mt = values[1];
    Calendar cal= Calendar.getInstance();
    cal.set(Calendar.HOUR_OF_DAY, Integer.valueOf(hr));
    cal.set(Calendar.MINUTE, Integer.valueOf(mt));
    cal.set(Calendar.SECOND, 0);
    Intent nIntent = new Intent(context, StopNotificationBroadcastReceiver.class);
    PendingIntent pendingIntent = PendingIntent.getBroadcast(context, 102, nIntent,
PendingIntent.FLAG_UPDATE_CURRENT);
    AlarmManager alarmManager = (AlarmManager)
context.getSystemService(ALARM SERVICE);
      alarmManager.set(AlarmManager.RTC_WAKEUP,
cal.getTimeInMillis(),pendingIntent); } }
7) BMI
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
```

```
import android.text.TextUtils;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class BMI extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_bmi);
    getSupportActionBar().setTitle("BMI Calculator");
    final EditText e1 = (EditText) findViewById(R.id.et1);
    final EditText e2 = (EditText) findViewById(R.id.et2);
    final TextView tv4 = (TextView) findViewById(R.id.tv4);
    findViewById(R.id.ib1).setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
         String str1 = e1.getText().toString();
         String str2 = e2.getText().toString();
         int weightint = Integer.parseInt(str1);
         float heightint = Float.parseFloat(str2);
         if(TextUtils.isEmpty(str1)){
           e1.setError("Please enter your weight");
           e1.requestFocus();
           return;
                           }
         if(TextUtils.isEmpty(str2)){
           e2.setError("Please enter your height");
           e2.requestFocus();
                           }
           return;
         if ((weightint <= 30) | | (weightint >= 130)) {
           Toast.makeText(BMI.this, "Please enter a valid weight",
               Toast.LENGTH_SHORT).show();
```

```
return;
         } else if ((heightint <= 4.8) | | (heightint >= 6.8)) {
           Toast.makeText(BMI.this, "Please enter a valid height",
               Toast.LENGTH_SHORT).show();
           return; }
         float weight = Float.parseFloat(str1);
         float height = Float.parseFloat(str2)/100;
       float feetintoinches = height * 30.48f;
         float bmiValue = calculateBMI(weight, feetintoinches);
         String bmiInterpretation = interpretBMI(bmiValue);
         tv4.setText(String.valueOf(bmiValue + "-" + bmiInterpretation));
      }
           }); }
    private float calculateBMI (float weight, float height) {
    return (float) (weight / (height * height));}
  private String interpretBMI(float bmiValue) {
    if (bmiValue < 16) {
      return "Severely underweight";
    } else if (bmiValue < 18.5) {
      return "Underweight";
    } else if (bmiValue < 25) {
      return "Normal";
    } else if (bmiValue < 30) {
      return "Overweight";
    } else {
      return "Obese";
    } }}
8) CalorieSummary
package com.example.healthongo;
import android.app.Activity;
import android.widget.TextView;
import java.util.Date;
```

```
import java.util.List;
public class CalorieSummary {
  private float totalcalories1;
  private int totalCalories;
  private float totalDays;
  private float averageCalories;
  private boolean entry;
  public CalorieSummary(List<LogEntry> logEntries) {
    calculateSummary(logEntries);}
  public void calculateSummary(List<LogEntry> logEntries) {
    totalCalories = 0;
    totalcalories1 = 0;
    totalDays = averageCalories = 0;
  for (LogEntry | : logEntries) {
     if (logEntries.size() <= 0) {</pre>
       totalcalories1 = 0;
     } else{ totalcalories1 = l.getTotalCalories();}
    for (LogEntry I : logEntries)
      totalCalories += I.getTotalCalories();
    if (logEntries.size() > 1) {
       Date max = getMaxDate(logEntries);
       Date min = getMinDate(logEntries);
      totalDays = ( max.getTime() - min.getTime() ) / ( 1000 * 60 * 60 * 24 );}
    if (logEntries.size() != 0)
       averageCalories = totalCalories / logEntries.size();}
public void display(Activity activity) {
    TextView textView = (TextView) activity.findViewById(R.id.total cals);
    textView.setText("Total calorie consumption: "
         + Integer.toString(totalCalories) + " cal");
textView = (TextView) activity.findViewById(R.id.total time);
    textView.setText("Total overall recording days: "
         + String.format("%.1f", totalDays) + " days");
```

```
textView = (TextView) activity.findViewById(R.id.suggest);
    textView.setText("Your average consumption is: " + String.format("%.1f",
averageCalories)) }
public Date getMaxDate(List<LogEntry> logEntries) {
    Date max;
    if (logEntries.size() < 1)
      return null;
    max = logEntries.get(0).getDate();
    for (int i = 1; i < logEntries.size(); i++) {
      if (logEntries.get(i).getDate().compareTo(max) > 0)
         max = logEntries.get(i).getDate();}
    return max; }
  public Date getMinDate(List<LogEntry> logEntries) {
    Date min;
    if (logEntries.size() < 1)
       return null;
    min = logEntries.get(0).getDate();
    for (int i = 1; i < logEntries.size(); i++) {
      if (logEntries.get(i).getDate().compareTo(min) < 0)
         min = logEntries.get(i).getDate();
    }
    return min; }
  public float getTotalcalories1() {
    return totalcalories1 }
  public void setTotalcalories1(float totalcalories1) {
    this.totalcalories1 = totalcalories1;}
  public boolean isEntry() {
    return entry; }
  public void setEntry(boolean entry) {
    this.entry = entry; }
  public float getTotalCalories() {
    return totalCalories; }
```

```
public void setTotalCalories(int totalCalories) {
    this.totalCalories = totalCalories;}
  public float getTotalDays() {
    return totalDays; }
  public void setTotalDays(float totalDays) {
    this.totalDays = totalDay; }
  public float getAverageCalories() {
    return averageCalories; }
  public void setAverageCalories(float averageCalories) {
    this.averageCalories = averageCalories; }}
9) ChartActivity
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TabHost;
import android.widget.TextView;
import java.util.ArrayList;
import java.util.List;
public class ChartActivity extends AppCompatActivity {
  BarChart dayBarChart;
  BarChart weekBarChart;
  BarChart mothBarChart;
  BarChart yearBarChart;
  List<TimeLog> dayValues;
  List<DateLog> weekValues;
  List<DateLog> monthValues;
  List<DateLog> yearValues;
  DrinkDataSource db;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_chart);
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    getSupportActionBar().setDisplayShowHomeEnabled(true);
    setTitle("Charts");
    db = new DrinkDataSource(this);
    db.open();
    dayValues = db.getDrinkByDay();
    weekValues = db.getDrinkByWeek();
    monthValues = db.getDrinkByMonth();
    yearValues = db.getDrinkByYear();
    TextView drinkInDay=(TextView) findViewById(R.id.textView);
    TextView drinkInWeek=(TextView) findViewById(R.id.textView2);
    TextView drinkInMonth=(TextView) findViewById(R.id.textView3);
    TextView drinkInYear=(TextView) findViewById(R.id.textView4);
    drinkInDay.setText("Total drink for today
:"+DateHandler.dayFormat(db.getCurrentDay()));
    drinkInWeek.setText("Total drink for last week");
    drinkInMonth.setText("Total drink from "+
DateHandler.dAndmFormat(db.getMonth())+"-
"+DateHandler.dAndmFormat(db.getCurrentDay()));
    drinkInYear.setText("Total drink from "+DateHandler.monthFormat(db.getYear())+"-
"+DateHandler.mAndYFormat(db.getCurrentDay()));
    dayBarChart = (BarChart) findViewById(R.id.day_chart);
    BarDataSet barDataSet = new BarDataSet(getYAxisValues(), "The consumed water in
ml");
    BarData barData = new BarData(getXAxisValues(), barDataSet);
    dayBarChart.setData(barData);
    dayBarChart.setDescription("");
    weekBarChart = (BarChart) findViewById(R.id.week chart);
    BarDataSet weekBarDataSet = new BarDataSet(getYAxisWeekValues(), "The consumed
water in ml");
    BarData weekBarData = new BarData(getXAxisWeekValues(), weekBarDataSet);
```

```
weekBarChart.setData(weekBarData);
    weekBarChart.setDescription("");
    mothBarChart = (BarChart) findViewById(R.id.month_chart);
    BarDataSet mBarDataSet = new BarDataSet(getYAxisMonthValues(), "The consumed
water in ml");
    BarData mBarData = new BarData(getXAxisMonthValues(), mBarDataSet);
    mothBarChart.setData(mBarData);
    mothBarChart.setDescription("");
    yearBarChart = (BarChart) findViewById(R.id.year_chart);
    BarDataSet yBarDataSet = new BarDataSet(getYAxisYearValues(),"The consumed water
in ml");
    BarData yBarData = new BarData(getXAxisYearValues(), yBarDataSet);
    yearBarChart.setData(yBarData);
    yearBarChart.setDescription("");
    yearBarChart.getXAxis().setDrawGridLines(false);
    yBarDataSet.setDrawValues(false);
    yearBarChart.getAxisRight().setDrawLimitLinesBehindData(false);
    yearBarChart.getAxisRight().setDrawAxisLine(false);
    yearBarChart.getAxisRight().setDrawAxisLine(false);
    yearBarChart.getAxisRight().setDrawGridLines(false);
    yearBarChart.getAxisLeft().setDrawAxisLine(false);
    yearBarChart.getAxisLeft().setDrawLimitLinesBehindData(false);
    yearBarChart.getAxisLeft().setDrawAxisLine(false);
    yearBarChart.getAxisLeft().setDrawGridLines(false);
    mothBarChart.getXAxis().setDrawGridLines(false);
    mBarDataSet.setDrawValues(false);
    mothBarChart.getAxisRight().setDrawAxisLine(false);
    mothBarChart.getAxisRight().setDrawLimitLinesBehindData(false);
    mothBarChart.getAxisRight().setDrawAxisLine(false);
    mothBarChart.getAxisRight().setDrawGridLines(false);
    mothBarChart.getAxisLeft().setDrawAxisLine(false);
    mothBarChart.getAxisLeft().setDrawLimitLinesBehindData(false);
```

```
mothBarChart.getAxisLeft().setDrawAxisLine(false);
    mothBarChart.getAxisLeft().setDrawGridLines(false);
    weekBarChart.getXAxis().setDrawGridLines(false);
    weekBarDataSet.setDrawValues(false);
    weekBarChart.getAxisRight().setDrawAxisLine(false);
    weekBarChart.getAxisRight().setDrawLimitLinesBehindData(false);
    weekBarChart.getAxisRight().setDrawAxisLine(false);
    weekBarChart.getAxisRight().setDrawGridLines(false);
    weekBarChart.getAxisLeft().setDrawAxisLine(false);
    weekBarChart.getAxisLeft().setDrawLimitLinesBehindData(false);
    weekBarChart.getAxisLeft().setDrawAxisLine(false);
    weekBarChart.getAxisLeft().setDrawGridLines(false);
    dayBarChart.getXAxis().setDrawGridLines(false);
    barDataSet.setDrawValues(false);
    dayBarChart.getAxisRight().setDrawAxisLine(false);
    dayBarChart.getAxisRight().setDrawLimitLinesBehindData(false);
    dayBarChart.getAxisRight().setDrawAxisLine(false);
    dayBarChart.getAxisRight().setDrawGridLines(false);
    dayBarChart.getAxisLeft().setDrawAxisLine(false);
    dayBarChart.getAxisLeft().setDrawLimitLinesBehindData(false);
    dayBarChart.getAxisLeft().setDrawAxisLine(false);
    dayBarChart.getAxisLeft().setDrawGridLines(false);
    TabHost host = (TabHost) findViewById(R.id.tabHost);
    host.setup();
    TabHost.TabSpec spec = host.newTabSpec("Today");
    spec.setContent(R.id.linearLayout);
    spec.setIndicator("Today");
    host.addTab(spec);
spec = host.newTabSpec("week");
    spec.setContent(R.id.linearLayout2);
    spec.setIndicator(" week");
    host.addTab(spec);
```

```
spec = host.newTabSpec("month");
    spec.setContent(R.id.linearLayout3);
    spec.setIndicator("month");
    host.addTab(spec);
       spec = host.newTabSpec("year");
    spec.setContent(R.id.linearLayout4);
    spec.setIndicator("year");
    host.addTab(spec); }
  private List<BarEntry> getYAxisYearValues() {
    ArrayList<BarEntry> yAxis = new ArrayList<>();
    for (int i = 0; i < yearValues.size(); i++) {
      BarEntry v1e1 = new BarEntry(yearValues.get(i).getWaterDrunk(), i);
      yAxis.add(v1e1);
                           }
    return yAxis; }
  private List<String> getXAxisYearValues() {
    ArrayList<String> xAxis = new ArrayList<>();
    for (int i = 0; i < yearValues.size(); i++) {
      xAxis.add(DateHandler.monthFormat(yearValues.get(i).getDate()))}
    return xAxis; }
  private List<String> getXAxisMonthValues() {
    ArrayList<String> xAxis = new ArrayList<>();
    for (int i = 0; i < monthValues.size(); i++) {
      xAxis.add(DateHandler.dayFormat(monthValues.get(i).getDate()))}
    return xAxis;}
  private List<BarEntry> getYAxisMonthValues() {
    ArrayList<BarEntry> yAxis = new ArrayList<>();
    for (int i = 0; i < monthValues.size(); i++) {
      BarEntry v1e1 = new BarEntry(monthValues.get(i).getWaterDrunk(), i);
      yAxis.add(v1e1);}
    return yAxis; }
  private List<String> getXAxisWeekValues() {
    ArrayList<String> xAxis = new ArrayList<>();
```

```
for (int i = 0; i < weekValues.size(); i++) {
      xAxis.add(DateHandler.dayFormat(weekValues.get(i).getDate()));}
    return xAxis; }
  private List<BarEntry> getYAxisWeekValues() {
    ArrayList<BarEntry> yAxis = new ArrayList<>();
    for (int i = 0; i < weekValues.size(); i++) {
      BarEntry v1e1 = new BarEntry(weekValues.get(i).getWaterDrunk(), i);
      yAxis.add(v1e1);
                           }
    return yAxis; }
  private ArrayList<String> getXAxisValues() {
    ArrayList<String> xAxis = new ArrayList<>();
    for (int i = 0; i < dayValues.size(); i++) {
      xAxis.add(dayValues.get(i).getTime().toString());}
    return xAxis; }
  private ArrayList<BarEntry> getYAxisValues() {
    ArrayList<BarEntry> yAxis = new ArrayList<>();
    for (int i = 0; i < dayValues.size(); i++) {
      BarEntry v1e1 = new BarEntry(dayValues.get(i).getAmount(), i);
      yAxis.add(v1e1);
    } return yAxis; }
  @Override
  public boolean onSupportNavigateUp() {
    onBackPressed();
    return true; }}
11) Data classes
package com.example.healthongo;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import androidx.core.view.GravityCompat;
```

```
import androidx.drawerlayout.widget.DrawerLayout;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;
import java.util.List;
public class Data_Classes extends AppCompatActivity implements
NavigationView.OnNavigationItemSelectedListener {
  TextView result1;
  boolean doubleBackToExitPressedOnce = false;
  private Context context;
  private List<LogEntry> logEntries;
  private DisplayLogActivity disp;
  private CalorieSummary calSum;
  private boolean entry1;
  private double ototal = 0;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_data__classes);
    FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
    fab.setOnClickListener(new View.OnClickListener() {
      @Override
```

```
public void onClick(View view) {
        Intent intent = new Intent(Data_Classes.this, AddNewEntryActivity.class);
        startActivity(intent);
                                  }
                                        });
    NavigationView navigationView = (NavigationView) findViewById(R.id.nav_view);
    navigationView.setNavigationItemSelectedListener(this);
    retrieveCalorieLog();
    displayCalorieSummary();
displaycal();
    SQLiteHandler db = new SQLiteHandler(getApplicationContext());
    Users user = db.getUser();
    String namevr = user.getName();
    String resulttext = user.getResult();
    result1 = (TextView) findViewById(R.id.resulttext);
    getSupportActionBar().setTitle("Welcome " + namevr + "!");
    result1.setText(resulttext);
    db.close(); }
  private void displaycal() {
    SQLiteHandler db = new SQLiteHandler(getApplicationContext());
    int flag = 0;
    Users user = db.getUser();
    float str1 = calSum.getTotalCalories();
    float str = calSum.getTotalcalories1();
    double total = (double) str;
    double ntotal = (double) str1;
    double result;
    double tcal = user.getCalories();
    double daily = user.getDaily();
    double dispCal = tcal;
    String date1 = user.getDates();
    Calendar calendar = Calendar.getInstance();
    SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");
    Date today = calendar.getTime();
```

```
String date2 = dateFormat.format(today);
    if (user.getTempo() == ntotal && (date2.equals(user.getDates()))) {
      flag = 1;
    } else if (user.getTempo() == ntotal && (!date2.equals(user.getDates()))){
      flag = 2;
    } else if (user.getTempo() != ntotal && (date2.equals(user.getDates()))) {
      flag = 3;
    } else if (user.getTempo() != ntotal && (!date2.equals(user.getDates()))){
      flag = 4;
    }
    switch (flag) {
      case 1:
                       dispCal = user.getDaily();
         break;
      case 2:
                       dispCal = user.getCalories();
         break;
      case 3:
                       dispCal = user.getDaily() - total;
      break;
      case 4:
dispCal = user.getCalories() - total;
break;
          }
    db.update_tempo(ntotal, user.getName());
    db.update daily(dispCal, user.getName());
    db.update Users(date2, user.getName());
    daily = user.getDaily();
    TextView textView = (TextView) findViewById(R.id.delete);
    if (daily < 0) {
      textView.setText( String.format( "%.1f", Math.abs(daily)) + "\n" + "calories over");
    } else textView.setText( String.format( "%.1f", daily ) + "\n" + "calories left");
db.close(); }
  private void retrieveCalorieLog() {
    LogManager.loadCalorieLog(this);}
```

```
private void displayCalorieSummary() {
  calSum = new CalorieSummary(LogManager.getLogEntries());
  calSum.display(this); }
protected void onResume() {
  super.onResume();
  displayCalorieSummary();
  displaycal();
  displaycal(); }
@Override
public void onBackPressed() {
  DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
  if (drawer.isDrawerOpen(GravityCompat.START)) {
    drawer.closeDrawer(GravityCompat.START);
  } else {
    if (doubleBackToExitPressedOnce) {
      super.onBackPressed();
                   }
      return;
    this.doubleBackToExitPressedOnce = true;
    Toast.makeText(this, "Please click back again to exit", Toast.LENGTH_SHORT).show();
    new Handler().postDelayed(new Runnable() {
      @Override
      public void run() {
        doubleBackToExitPressedOnce=false;
      }, 2000);} }
public void reset(View view) {
  Context context = this;
  AlertDialog.Builder builder = new AlertDialog.Builder(context);
  builder.setMessage("Are you sure you want to reset your daily calorie?");
  builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
    public void onClick(DialogInterface dialog, int id) {
      dialog.dismiss();
      SQLiteHandler db = new SQLiteHandler(getApplicationContext());
```

```
Users user = db.getUser();
      user.getCalories();
      db.update_daily(user.getCalories(), user.getName());
      displaycal();
      db.close();
                         }});
  builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
    public void onClick(DialogInterface dialog, int id) {
      dialog.dismiss();
    }
         });
  AlertDialog alert = builder.create();
  alert.show(); }
@Override
public boolean onCreateOptionsMenu(Menu menu) {
  getMenuInflater().inflate(R.menu.data__classess, menu);
  return true; }
@Override
public boolean onOptionsItemSelected(MenuItem item) {
  int id = item.getItemId();
  if (id == R.id.action_settings) {
    {Context context = this;
      AlertDialog.Builder builder = new AlertDialog.Builder(context);
      builder.setMessage("Are you sure you want to exit?");
      builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
        public void onClick(DialogInterface dialog, int id) {
           dialog.dismiss();
           finish();
                       }
                                  });
      builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
         public void onClick(DialogInterface dialog, int id) {
                                       }
           dialog.dismiss();
                                                });
      AlertDialog alert = builder.create();
      alert.show();
                          }}
  else if (id == R.id.edit) {
```

```
Context context = this;
    AlertDialog.Builder builder = new AlertDialog.Builder(context);
    builder.setMessage("Are you sure you want to remove and reenter your info?");
    builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
      public void onClick(DialogInterface dialog, int id) {
        dialog.dismiss();
        SQLiteHandler db = new SQLiteHandler(getApplicationContext());
        Intent intent = new Intent(Data_Classes.this, MainActivity.class);
        startActivity(intent);
        db.clear();
        finish();
                         }
                                });
    builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
      public void onClick(DialogInterface dialog, int id) {
         dialog.dismiss();
                                  }
                                      });
    AlertDialog alert = builder.create();
    alert.show();
  } else if (id == R.id.entry) {
    Intent intent = new Intent(this, AddNewEntryActivity.class);
    startActivity(intent);
  } else if (id == R.id.log) {
    Intent intent = new Intent(this, DisplayLogActivity.class);
    startActivity(intent);
                             }
  return super.onOptionsItemSelected(item); }
@SuppressWarnings("StatementWithEmptyBody")
@Override
public boolean onNavigationItemSelected(MenuItem item)
  int id = item.getItemId();
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer layout);
  drawer.closeDrawer(GravityCompat.START);
  return true; }}
```

## 12) Date Handler

```
package com.example.healthongo;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;
public class DateHandler {
  public static String getCurrentDate(){
    return new SimpleDateFormat("yyyy-MM-dd HH:mm:ss").format(new Date());}
  public static String getCurrentTime() {
    SimpleDateFormat dateFormat = new SimpleDateFormat(
        "HH:mm a", Locale.getDefault());
    return dateFormat.format(new Date()); }
  public static String getDateFormat(String date) {
    System.out.println(date);
    SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
    Date d = null;
    try {
      d = fmt.parse(date);
    } catch (ParseException e) {
      e.printStackTrace();
                             }
 fmt = new SimpleDateFormat("yyyy-MM-dd");
    return fmt.format(d);}
  public static String getCurrentFormedDate(){
    return new SimpleDateFormat("yyyy-MM-dd").format(new Date());}
  public static String dayFormat(String date) {
    System.out.println(" date string: "+date);
    SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
    Date d = null;
    try {
      d = fmt.parse(date);
```

```
} catch (ParseException e) {
    e.printStackTrace();}
  fmt = new SimpleDateFormat("EEE");
  System.out.println(" date: "+fmt.format(d));
  return fmt.format(d);
}
public static String monthFormat(String date) {
  SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
  Date d = null;
  try {
    d = fmt.parse(date);
  } catch (ParseException e) {
    e.printStackTrace();
  fmt = new SimpleDateFormat("MMM");
  return fmt.format(d); }
public static String mAndYFormat(String date) {
  SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
  Date d = null;
  try {
    d = fmt.parse(date);
  } catch (ParseException e) {
    e.printStackTrace();
  fmt = new SimpleDateFormat("MMM/yyyy");
  return fmt.format(d);}
public static String dAndmFormat(String date) {
  SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
  Date d = null;
  try {
    d = fmt.parse(date);
  } catch (ParseException e) {
    e.printStackTrace();}
  fmt = new SimpleDateFormat("d MMM");
```

```
return fmt.format(d); }
  public static String dateFormat(String date) {
    SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
    Date d = null;
    try {
      d = fmt.parse(date);
    } catch (ParseException e) {
      e.printStackTrace(); }
    fmt = new SimpleDateFormat("EEE, MMM d, "yy");
    return fmt.format(d);
 }}
13) DateLogActivity
package com.example.healthongo;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageButton;
import android.widget.ListView;
import android.widget.TextView;
public class DateLogActivity extends AppCompatActivity {
  private DateLog dateLog;
  private TextView waterLog,dateTv;
  private CircleProgress circleProgress;
  static ListView listView;
  static List<DateLog> values;
  static ArrayAdapter<DateLog> adapter;
  private static DrinkDataSource db;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    getSupportActionBar().setDisplayShowHomeEnabled(true);
    setContentView(R.layout.activity_date_log);
    setTitle("History");
    db = new DrinkDataSource(this);
    db.open();
    dateLog= new DateLog();
    values = db.getAllDateLogs();
    listView = (ListView) findViewById(R.id.log_list);
    adapter = new myListAdapter();
    listView.setAdapter(adapter); }
  @Override
  public boolean onSupportNavigateUp() {
    onBackPressed();
    return true; }
  private class myListAdapter extends ArrayAdapter<DateLog> {
    public myListAdapter() {
      super(DateLogActivity.this, R.layout.date_log_raw, values);
                                                                    }
    public View getView(final int position, View convertView, ViewGroup parent) {
      View itemView = convertView;
      if (itemView == null) {
        itemView = getLayoutInflater().inflate(
             R.layout.date log raw, parent, false);
                                                        }
      itemView.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
           Intent intent = new Intent(getApplicationContext(), TimeLogActivity.class);
          Bundle bundle = new Bundle();
bundle.putString(Commands.DateLogItem,DateHandler.getDateFormat(values.get(position)
.getDate()));
          intent.putExtras(bundle);
```

```
startActivityForResult(intent, 0);
                                                   }
                                                          });
      ImageButton shareButton = (ImageButton) itemView.findViewById(R.id.forward);
      final int waterNeed =values.get(position).getWaterNeed();
      final int waterDrank = values.get(position).getWaterDrunk();
      shareButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
          String text = "I've just been reminded to drink"
+dateLog.getWaterInLiter(waterDrank)
               + " of " + dateLog.getWaterInLiter(waterNeed) + "L by Daily Water
Tracker!";
          Intent sendIntent = new Intent();
          sendIntent.setAction(Intent.ACTION_SEND);
          sendIntent.putExtra(Intent.EXTRA_TEXT,text);
          sendIntent.setType("text/plain");
          startActivity(sendIntent);
        }
                });
      circleProgress = (CircleProgress) itemView.findViewById(R.id.circle_progress);
      dateTv = (TextView) itemView.findViewById(R.id.date);
      dateTv.setText(DateHandler.dateFormat(values.get(position).getDate()));
      waterLog = (TextView) itemView.findViewById(R.id.water_drunk);
     waterLog.setText(dateLog.getWaterInLiter(waterDrank) + "/" +
          dateLog.getWaterInLiter(waterNeed) + " L");
      int prcValue= waterDrank*100/waterNeed;
      if(prcValue>=100)
        circleProgress.setProgress(100);
      else
        circleProgress.setProgress(prcValue);
      return itemView;} }
  public static void reloadAdapter() {
    adapter.clear();
```

```
adapter.addAll(db.getAllDateLogs());
    listView.setAdapter(adapter);}}
14) DisplayLogAdapter
package com.example.healthongo;
import android.annotation.SuppressLint;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.View.OnClickListener;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.Button;
import android.widget.TextView;
public class DisplayLogAdapter extends BaseAdapter implements OnClickListener {
  private Context context;
  private List<LogEntry> logEntries;
  public DisplayLogAdapter(Context context, List<LogEntry> logEntries) {
    this.context = context;
    this.logEntries = logEntries; }
  public int getCount() {
    return logEntries.size(); }
  public Object getItem(int position) {
    return logEntries.get(position); }
  public long getItemId(int position) {
    return position; }
  @SuppressLint("SimpleDateFormat")
  public View getView(int position, View convertView, ViewGroup viewGroup) {
    LogEntry entry = logEntries.get(position);
    if (convertView == null) {
      LayoutInflater inflater = (LayoutInflater) context
           .getSystemService(Context.LAYOUT_INFLATER_SERVICE);
```

```
convertView = inflater.inflate(R.layout.list_entry, null);
    }
    TextView tvDate = (TextView) convertView.findViewById(R.id.tvDate);
    tvDate.setText(new SimpleDateFormat("yyyy-MM-dd").format(entry.getDate()));
    TextView tvDescription = (TextView) convertView.findViewById(R.id.tvDescription);
    tvDescription.setText(entry.getDescription());
    TextView tvTotalCalories = (TextView) convertView.findViewById(R.id.tvTotalCalories);
    tvTotalCalories.setText(Integer.toString(entry.getTotalCalories()));
    if (entry.getCalPerWeight() > 0) {
      TextView tvCalPerWeight = (TextView)
convertView.findViewById(R.id.tvCalPerWeight);
      tvCalPerWeight.setText(String.format("%.1f", entry.getCalPerWeight()));
      TextView tvPerWeight = (TextView) convertView.findViewById(R.id.tvPerWeight);
      tvPerWeight.setText(String.format("%.1f", entry.getPerWeight()));
      TextView tvTotalWeightCon = (TextView)
convertView.findViewById(R.id.tvTotalWeightCon);
      tvTotalWeightCon.setText(String.format("%.1f", entry.getTotalWeightCon()));
                                                                                     }
    Button btnRemove = (Button) convertView.findViewById(R.id.btnRemove);
    btnRemove.setFocusableInTouchMode(false);
    btnRemove.setFocusable(false);
    btnRemove.setOnClickListener(this);
    btnRemove.setTag(entry);
    return convertView; }
  @Override
  public void onClick(View view) {
    LogEntry entry = (LogEntry) view.getTag();
    logEntries.remove(entry);
    LogManager.writeToCalorieLog(logEntries, context);
    notifyDataSetChanged(); }}
```

## 15) Feedback

```
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
public class Feedback extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_feedback);
    findViewById(R.id.btn_feedback).setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        sendFeedback();
                         } }); }
  @Override
  public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu_main, menu);
    return true; }
 private void sendFeedback() {
    final Intent Intent = new Intent(android.content.Intent.ACTION_SEND);
    Intent.setType("text/html");
    Intent.putExtra(android.content.Intent.EXTRA_EMAIL, new String[]{
getString(R.string.mail_feedback_email) });
    Intent.putExtra(android.content.Intent.EXTRA_SUBJECT,
getString(R.string.mail feedback subject));
    _Intent.putExtra(android.content.Intent.EXTRA_TEXT,
getString(R.string.mail_feedback_message));
   startActivity(Intent.createChooser( Intent, getString(R.string.title_send_feedback))); }}
```

## 16) Footstep

```
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.hardware.Sensor;
import android.hardware.SensorEvent;
import android.hardware.SensorEventListener;
import android.hardware.SensorManager;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class Footstep extends AppCompatActivity implements SensorEventListener,
StepListener {
  private TextView textView , TvSteps;
  private StepDetector simpleStepDetector;
  private SensorManager sensorManager;
  private Sensor accel;
  private static final String TEXT NUM STEPS = "Number of Steps: ";
  private int numSteps;
  Button BtnStart ,BtnStop;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity footstep);
    getSupportActionBar().setTitle("Pedometer");
    sensorManager = (SensorManager) getSystemService(SENSOR_SERVICE);
    accel = sensorManager.getDefaultSensor(Sensor.TYPE ACCELEROMETER);
    simpleStepDetector = new StepDetector();
    simpleStepDetector.registerListene((this);
    TvSteps = (TextView) findViewById(R.id.tv steps);
    BtnStart = (Button) findViewById(R.id.btn start);
    BtnStop = (Button) findViewById(R.id.btn stop);
```

```
BtnStart.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View arg0) {
       numSteps = 0;
       sensorManager.registerListener(Footstep.this, accel,
SensorManager.SENSOR_DELAY_FASTEST);
                                              });
   BtnStop.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View arg0) {
       sensorManager.unregisterListener(Footstep.this);
                                                        @Override
 public void step(long timeNs) {
   numSteps++;
   TvSteps.setText(TEXT_NUM_STEPS + numSteps); }
  @Override
 @Override
 public void onSensorChanged(SensorEvent event) {
   if (event.sensor.getType() == Sensor.TYPE_ACCELEROMETER) {
     simpleStepDetector.updateAccel(
         event.timestamp, event.values[0], event.values[1], event.values[2]);}}}
```

## 17) Fragment Prefs

```
package com.example.healthongo;
import android.annotation.TargetApi;
import android.app.Activity;
import android.app.TimePickerDialog;
import android.content.Context;
import android.content.SharedPreferences;
```

```
import android.net.Uri;
import android.os.Build;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.preference.Preference;
import android.preference.PreferenceFragment;
import android.preference.PreferenceManager;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TimePicker;
public class FragmentPrefs extends PreferenceFragment
    implements Preference.OnPreferenceChangeListener,
SharedPreferences.OnSharedPreferenceChangeListener{
  private SettingsActivity mActivity;
  private Context context;
  private Preference glassSizePref, bottleSizePref, intervalPref, soundPref,
      notiEnablePref,fromTimePrf, toTimePref,weightPref,trainingPref,waterNeedPref;
  private Calendar fromC = Calendar.getInstance();
  private Calendar toC = Calendar.getInstance();
  @Override
  public void onCreate(final Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    context =mActivity.getApplicationContext();
    addPreferencesFromResource(R.xml.fragment_prefs);
    notiEnablePref= findPreference(PreferenceKey.PREF_IS_ENABLED);
    soundPref= findPreference(PreferenceKey.PREF_SOUND);
    intervalPref=findPreference(PreferenceKey.PREF_INTERVAL);
    fromTimePrf = findPreference(PreferenceKey.PREF START TIME);
    toTimePref= findPreference(PreferenceKey.PREF_EBD_TIME);
    weightPref =findPreference(PreferenceKey.PREF_WEIGHT_NUMBER);
    trainingPref= findPreference(PreferenceKey.PREF_TRAINING);
```

```
waterNeedPref = findPreference(PreferenceKey.PREF_WATER_NEED);
    glassSizePref = findPreference(PreferenceKey.PREF_GLASS_SIZE);
    bottleSizePref = findPreference(PreferenceKey.PREF_BOTTLE_SIZE);
    trainingPref.setOnPreferenceChangeListener(this);
    weightPref.setOnPreferenceChangeListener(this);
    toTimePref.setOnPreferenceChangeListener(this);
    waterNeedPref.setOnPreferenceChangeListener(this);
    notiEnablePref.setOnPreferenceChangeListener(this);
    intervalPref.setOnPreferenceChangeListener(this);
    soundPref.setOnPreferenceChangeListener(this);
    glassSizePref.setOnPreferenceChangeListener(this);
    bottleSizePref.setOnPreferenceChangeListener(this);
    initSummaries();
    fromTimePrf.setOnPreferenceClickListener(new Preference.OnPreferenceClickListener()
{
       @TargetApi(Build.VERSION_CODES.HONEYCOMB)
      @Override
      public boolean onPreferenceClick(Preference preference) {
        int hour = fromC.get(Calendar.HOUR_OF_DAY);
        int minutes = fromC.get(Calendar.MINUTE);
        TimePickerDialog datePickerDialog =
            new TimePickerDialog(getActivity(),timeFrom ,hour,minutes, true);
        datePickerDialog.show();
        return false;
                          }
                               });
    toTimePref.setOnPreferenceClickListener(new Preference.OnPreferenceClickListener()
      @TargetApi(Build.VERSION CODES.HONEYCOMB)
      @Override
      public boolean onPreferenceClick(Preference preference) {
        int hour = toC.get(Calendar.HOUR OF DAY);
        int minutes = toC.get(Calendar.MINUTE);
        TimePickerDialog datePickerDialog =
            new TimePickerDialog(getActivity(),timeTo ,hour,minutes, true);
        datePickerDialog.show();
```

```
}); }
        return false; }
  @SuppressWarnings("deprecation")
  @Override
  public void onAttach(Activity activity) {
    super.onAttach(activity);
    if(activity!=null) {
      mActivity=(SettingsActivity)activity; } }
  private void initSummaries() {
    boolean isNotifEnabled =
getPreferenceManager().getSharedPreferences().getBoolean(PreferenceKey.PREF_IS_ENAB
LED, false);
    boolean isSoundEnabled =
getPreferenceManager().getSharedPreferences().getBoolean(PreferenceKey.PREF_SOUND,
false);
    int intervalNum =
getPreferenceManager().getSharedPreferences().getInt(PreferenceKey.PREF_INTERVAL,2);
    int weight =
getPreferenceManager().getSharedPreferences().getInt(PreferenceKey.PREF_WEIGHT_NUM
BER, 0);
    boolean training=
getPreferenceManager().getSharedPreferences().getBoolean(PreferenceKey.PREF_TRAININ
G,false);
    int water reco=
getPreferenceManager().getSharedPreferences().getInt(PreferenceKey.PREF_WATER_NEED,
0);
    String glassSize =
getPreferenceManager().getSharedPreferences().getString(PreferenceKey.PREF_GLASS_SIZE
,"");
    String bottleSize =
getPreferenceManager().getSharedPreferences().getString(PreferenceKey.PREF_BOTTLE_SIZ
E,"");
    SharedPreferences sharedPreferences =
```

```
PreferenceManager.getDefaultSharedPreferences(context);
    String from = sharedPreferences.getString(PreferenceKey.FROM_KEY,"8:0");
    String to = sharedPreferences.getString(PreferenceKey.TO_KEY,"20:0");
    if(weight!=0)
      weightPref.setSummary(Integer.toString(weight)+" kg");
    trainingPref.setSummary(getString(training));
    waterNeedPref.setSummary(Integer.toString(water_reco)+" ml");
    glassSizePref.setSummary(glassSize+ " ml");
    bottleSizePref.setSummary(bottleSize+ " ml");
    fromTimePrf.setSummary(from);
    toTimePref.setSummary(to);
    notiEnablePref.setSummary(getString(isNotifEnabled));
    enableNotificationsPrefs(isNotifEnabled);
    soundPref.setSummary(getString(isSoundEnabled));
    intervalPref.setSummary(Integer.toString(intervalNum)+" hour/s"); }
  TimePickerDialog.OnTimeSetListener timeFrom = new
TimePickerDialog.OnTimeSetListener() {
    @Override
    public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
      fromC.set(Calendar.HOUR_OF_DAY,hourOfDay);
      fromC.set(Calendar.MINUTE,minute);
      from Time Prf. set Summary (String. \textit{valueOf} (hour Of Day) + ":" + String. \textit{valueOf} (minute)); \\
setTimePref(PreferenceKey.FROM_KEY,String.valueOf(hourOfDay)+":"+String.valueOf(minut
e));
       } };
  TimePickerDialog.OnTimeSetListener timeTo = new TimePickerDialog.OnTimeSetListener()
{
    @Override
    public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
      toC.set(Calendar.HOUR_OF_DAY,hourOfDay);
      toC.set(Calendar.MINUTE,minute);
      toTimePref.setSummary(String.valueOf(hourOfDay)+":"+String.valueOf(minute));
```

```
setTimePref(PreferenceKey.TO_KEY,String.valueOf(hourOfDay)+":"+String.valueOf(minute);
} };
private String getString(boolean b){
    if (b)
      return "ON";
    return "OFF"; }
  @Override
  public void onSharedPreferenceChanged(SharedPreferences sharedPreferences, String
key) { }
  @Override
  public boolean onPreferenceChange(Preference preference, Object newValue) {
    switch (preference.getKey()) {
      case PreferenceKey.PREF_WEIGHT_NUMBER:
        handleWeightPref( newValue.toString(), preference);
        return true;
      case PreferenceKey.PREF_TRAINING:
        handleTrainingPrefs(newValue.toString(),preference);
        return true;
      case PreferenceKey.PREF_WATER_NEED:
        preference.setSummary(newValue.toString()+ " ml");
        return true;
      case PreferenceKey.PREF_GLASS_SIZE:
        preference.setSummary(newValue.toString()+ " ml");
        return true;
      case PreferenceKey.PREF_BOTTLE_SIZE:
        preference.setSummary(newValue.toString()+ " ml");
        return true;
      case PreferenceKey.PREF_IS_ENABLED:
        enableNotificationsPrefs(newValue);
        setSwitchPrefSummaries(newValue.toString(), preference);
        return true;
      case PreferenceKey.PREF_SOUND:
```

```
setSwitchPrefSummaries(newValue.toString(), preference);
      return true;
    case PreferenceKey.PREF_INTERVAL:
      preference.setSummary(newValue.toString()+" hour/s");
      return true;
                     }
  return true; }
private void enableNotificationsPrefs(Object newValue) {
  if(newValue.equals(true))
  {
    intervalPref.setEnabled(true);
    fromTimePrf.setEnabled(true);
    toTimePref.setEnabled(true);
  }
  else{
    intervalPref.setEnabled(false);
    fromTimePrf.setEnabled(false);
    toTimePref.setEnabled(false);
  } }
private void handleTrainingPrefs(String s, Preference preference) {
  boolean value = Boolean.valueOf(s);
  setTrainingToPref(value);
  int waterNeedValue =calculateWaterReco();
  setWaterNeedToPref(waterNeedValue);
  preference.setSummary(getString(value));
  waterNeedPref.setSummary(String.valueOf(waterNeedValue) +" ml"); }
private void handleWeightPref(String s, Preference preference) {
  setWeightToPref(Integer.valueOf(s));
  int value =calculateWaterReco();
  setWaterNeedToPref(value);
  preference.setSummary(s+" kg");
  waterNeedPref.setSummary(String.valueOf(value) +" ml");
}
```

```
private void setSwitchPrefSummaries(String newValue, Preference preference) {
    if(newValue.equals("true"))
    { preference.setSummary("ON ");
    }
    else
      preference.setSummary("OFF ");}
  private void setTrainingToPref(Boolean aBoolean) {
    SharedPreferences prefs = PreferenceManager
        .getDefaultSharedPreferences(getActivity().getApplicationContext());
    SharedPreferences.Editor editor = prefs.edit();
    editor.putBoolean(PreferenceKey.PREF_TRAINING, aBoolean);
    editor.apply(); }
  private void setWeightToPref(int v) {
    SharedPreferences prefs = PreferenceManager
        .getDefaultSharedPreferences(getActivity().getApplicationContext());
    SharedPreferences.Editor editor = prefs.edit();
    editor.putInt(PreferenceKey.PREF_WEIGHT_NUMBER, v);
    editor.apply(); }
  private void setWaterNeedToPref(int v) {
    SharedPreferences prefs = PreferenceManager
        .getDefaultSharedPreferences(getActivity().getApplicationContext());
    SharedPreferences.Editor editor = prefs.edit();
    editor.putInt(PreferenceKey.PREF_WATER_NEED, v);
    editor.apply(); }
  private void setTimePref(String command, String str){
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    SharedPreferences.Editor editor = prefs.edit();
    editor.putString(command, str);
    editor.commit(); }
  private int calculateWaterReco() {
    int weight =
getPreferenceManager().getSharedPreferences().getInt(PreferenceKey.PREF_WEIGHT_NUM
```

```
BER, 0);
    boolean training=
getPreferenceManager().getSharedPreferences().getBoolean(PreferenceKey.PREF_TRAININ
G,false);
    double waterNeed= weight/ 0.030;
    if (training)
      waterNeed= waterNeed+300;
    return (int)waterNeed; }
}
19)Home
package com.example.healthongo;
import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentTransaction;
import com.google.android.material.navigation.NavigationView;
import com.google.firebase.auth.FirebaseAuth;
public class home extends AppCompatActivity {
  DrawerLayout Drawerlayout;
  ActionBarDrawerToggle nToggle;
  FragmentTransaction fragmentTransaction;
  NavigationView navigationView;
  FirebaseAuth auth;
  TextView bmi, calorie, footstep, water, suggestion;
  Fragment fragment = null;
  FirebaseAuth mAuth;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_home);
    Drawerlayout = (DrawerLayout) findViewById(R.id.drawerLayout);
    nToggle = new ActionBarDrawerToggle(this, Drawerlayout, R.string.open,
R.string.close);
    Drawerlayout.addDrawerListener(nToggle);
    nToggle.syncState();
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
getSupportActionBar().setTitle("Home Page");
    navigationView = (NavigationView) findViewById(R.id.navigation_view);
    navigationView.setNavigationItemSelectedListener(new
NavigationView.OnNavigationItemSelectedListener() {
      @Override
      public boolean onNavigationItemSelected(@NonNull MenuItem menuItem) {
        switch (menultem.getItemId()) {
          case R.id.logout:
            Intent myIntent2 = new Intent(home.this,
                 LogOut.class);
            startActivity(myIntent2);
            break;
          case R.id. Aboutus:
            Intent myIntent = new Intent(Intent.ACTION_SEND);
            myIntent.setType("text/plain");
            String share ="go share this app with your friends and known one let them
know about it";
            myIntent.putExtra(Intent.EXTRA_SUBJECT,share);
            startActivity(Intent.createChooser(myIntent, "Share USing"));
            break;
          case R.id.contact:
            Intent browserIntent = new Intent(Intent.ACTION VIEW,
Uri.parse("http://www.google.com"));
```

```
startActivity(browserIntent);
break;
          }
      return true;
      }
            });
    bmi = (TextView) findViewById(R.id.BMI);
    bmi.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        startActivity(new Intent(home.this, BMI.class));
      }
    });
    calorie = (TextView) findViewById(R.id.textView2);
    calorie.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        SQLiteHandler db = new SQLiteHandler(getApplicationContext());
        if (!db.isUserEmpty()) {
           Intent i = new Intent(home.this, Data_Classes.class);
           startActivity(i);
        } else {
           Intent mainIntent = new Intent(home.this, MainActivity.class);
           home.this.startActivity(mainIntent);
                                                        }}});
    footstep = (TextView) findViewById(R.id.textView3);
    footstep.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        startActivity(new Intent(home.this, Footstep.class));
                                                                     });
    water = (TextView) findViewById(R.id.textView4);
    water.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        startActivity(new Intent(home.this, Water.class));
                                                                 }
                                                                      });
```

```
suggestion = (TextView) findViewById(R.id.textView5);
    suggestion.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        startActivity(new Intent(home.this,Feedback.class));
                                                                      }); }
  @Override
  public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    if (nToggle.onOptionsItemSelected(item)) {
      return true;
                     }
    return super.onOptionsItemSelected(item); }
  public void onBackPressed() {
    finishAffinity(); }}
20) <u>login</u>
package com.example.healthongo;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.text.method.HideReturnsTransformationMethod;
import android.text.method.PasswordTransformationMethod;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.TextView;
import android.widget.Toast;
import com.google.firebase.auth.AuthResult;
```

```
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
public class login extends AppCompatActivity {
  private EditText loginEmailId, logInpasswd;
  private FirebaseAuth firebaseAuth;
  private ProgressBar progressBar;
  private Button btnLogIn;
  TextView signup , forgot;
  CheckBox showPass;
  private ProgressDialog progressDialog;
  private FirebaseAuth.AuthStateListener authStateListener;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_login);
    firebaseAuth = FirebaseAuth.getInstance();
    loginEmailId = findViewById(R.id.loginEmail);
    logInpasswd = findViewById(R.id.loginpaswd);
    btnLogIn = findViewById(R.id.btnLogIn);
    signup = findViewById(R.id.TVSignIn);
    forgot =findViewById(R.id.forgot);
    showPass=findViewById(R.id.passwordshow);
    progressBar = (ProgressBar) findViewById(R.id.progressBar);
    progressDialog = new ProgressDialog(this);
    authStateListener = new FirebaseAuth.AuthStateListener() {
      @Override
      public void onAuthStateChanged(@NonNull FirebaseAuth firebaseAuth) {
        FirebaseUser user = firebaseAuth.getCurrentUser();
        if (user != null) {
          Toast.makeText(login.this, "User logged in ", Toast.LENGTH_SHORT).show();
          Intent I = new Intent(login.this, home.class);
```

```
startActivity(I);
        } else {
           Toast.makeText(login.this, "Login to continue", Toast.LENGTH_SHORT).show();
     }
             }
                };
    signup.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        Intent I = new Intent(login.this, SignUp.class);
        startActivity(I); }
                              });
    forgot.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        startActivity(new Intent(login.this, Reset.class));
}});
    btnLogIn.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        String userEmail = loginEmailId.getText().toString();
        String userPaswd = logInpasswd.getText().toString();
        if (userEmail.isEmpty()) {
           loginEmailId.setError("Provide your Email first!");
           loginEmailId.requestFocus();
        } else if (userPaswd.isEmpty()) {
           logInpasswd.setError("Enter Password!");
           logInpasswd.requestFocus();
        } else if (userEmail.isEmpty() && userPaswd.isEmpty()) {
           Toast.makeText(login.this, "Fields Empty!", Toast.LENGTH SHORT).show();
        } else if (!(userEmail.isEmpty() && userPaswd.isEmpty()))
        {
           firebaseAuth.signInWithEmailAndPassword(userEmail,
userPaswd).addOnCompleteListener(login.this, new OnCompleteListener() {
             @Override
```

```
public void onComplete(@NonNull Task task) {
               if (!task.isSuccessful()) {
                 Toast.makeText(login.this, "Not sucessfull",
Toast.LENGTH_SHORT).show();
                 progressBar.setVisibility(View.GONE);
               } else {
                 startActivity(new Intent(login.this, home.class));
               }
                           }});
                                         }
        else {
          Toast.makeText(login.this, "Error", Toast.LENGTH_SHORT).show();
          progressBar.setVisibility(View.GONE);
                                                        }
        progressBar.setVisibility(View.VISIBLE);
        progressDialog.setMessage("Logging in Please Wait...");
        progressDialog.show();
                                     }
                                          });
    progressDialog.dismiss();
    show Pass. set On Checked Change Listener (new
CompoundButton.OnCheckedChangeListener() {
      @Override
     public void onCheckedChanged(CompoundButton compoundButton, boolean value) {
        if (value)
        {
logInpasswd.setTransformationMethod(HideReturnsTransformationMethod.getInstance( )
else{logInpasswd.setTransformationMethod(PasswordTransformationMethod.getInstance()
);}}});}
  @Override
  protected void onStart() {
    super.onStart();
    firebaseAuth.addAuthStateListener(authStateListener);
 }}
```

## 21)Log Manager

```
package com.example.healthongo;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.util.ArrayList;
import java.util.List;
public class LogManager {
  private static final String LOG_PATH = "calorieslog.sav";
  private static List<LogEntry> logEntries;
  @SuppressWarnings("unchecked")
  public static void loadCalorieLog(Context ctx) {
    logEntries = new ArrayList<LogEntry>();
    try {
      FileInputStream fis = ctx.openFileInput(LOG_PATH);
      ObjectInputStream in = new ObjectInputStream(fis);
      logEntries = (ArrayList<LogEntry>) in.readObject();
      in.close();
    } catch (FileNotFoundException e) {
      e.printStackTrace();
    } catch (IOException e) {
      e.printStackTrace();
    } catch (ClassNotFoundException e) {
      e.printStackTrace(); } }
  public static void writeToCalorieLog(LogEntry logEntry, Context ctx) {
    try {
      logEntries.add(logEntry);
      FileOutputStream fos = ctx.openFileOutput(LOG_PATH, Context.MODE_PRIVATE);
      ObjectOutputStream out = new ObjectOutputStream(fos);
      out.writeObject(logEntries);
```

```
out.close();
    } catch (FileNotFoundException e) {
      e.printStackTrace();
    } catch (IOException e) {
      e.printStackTrace();
                             } }
  public static void writeToCalorieLog(List<LogEntry> le, Context ctx) {
    try {
      logEntries = le;
      FileOutputStream fos = ctx.openFileOutput(LOG_PATH, Context.MODE_PRIVATE);
      ObjectOutputStream out = new ObjectOutputStream(fos);
      out.writeObject(logEntries);
      out.close();
    } catch (FileNotFoundException e) {
      e.printStackTrace();
    } catch (IOException e) {
      e.printStackTrace();
                              }}
  public static List<LogEntry> getLogEntries() {
    return logEntries; }}
22) Main2Activity
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import com.google.firebase.auth.FirebaseAuth;
public class Main2Activity extends AppCompatActivity {
Button log,register;
FirebaseAuth mAuth;
  @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
startUpTasks();
    log = (Button)findViewById(R.id.button);
    register=(Button)findViewById(R.id.button2);
    log.setOnClickListener(new View.OnClickListener() {
      public void onClick(View arg0) {
        Intent myIntent = new Intent(Main2Activity.this,
             login.class);
        startActivity(myIntent); }
                                     });
    register.setOnClickListener(new View.OnClickListener() {
      public void onClick(View arg0) {
        Intent myIntent = new Intent(Main2Activity.this,
             SignUp.class);
        startActivity(myIntent);
                                       }});}
  private void startUpTasks() {
    Boolean isFirstRun = getSharedPreferences("PREFERENCE", MODE_PRIVATE)
        .getBoolean("isFirstRun", true);
    if (isFirstRun) {
      Intent i = new Intent(Main2Activity.this, login.class);
      startActivity(i);
      getSharedPreferences("PREFERENCE", MODE_PRIVATE).edit()
           .putBoolean("isFirstRun", false).commit();
    } else {
      Intent myIntent = new Intent(Main2Activity.this, home.class);
      Main2Activity.this.startActivity(myIntent);
    } }}
23) MainActivity
package com.example.healthongo;
import android.content.Intent;
```

```
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;
  public class MainActivity extends AppCompatActivity {
  EditText weight, height, age, name;
  double bmi;
  double bmr;
  RadioButton radioGender;
  RadioButton stars;
  int selectedId;
 int radiold;
  private String resulttext;
  private TextView txtresult;
  Spinner spgoals;
  String sgoals;
  String goals[] = { "Maintain Weight", "Gain 0.5kg per week", "Gain 1kg per week", "Lose
0.5kg per week",
      "Lose 1kg per week" };
  ArrayAdapter<String> adaptergoals;
  @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    getSupportActionBar().setTitle("Calorie Counter");
    spgoals = (Spinner) findViewById(R.id.spinner);
    adaptergoals = new ArrayAdapter<String>(this,
        android.R.layout.simple_spinner_item, goals);
adaptergoals.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item
);
 spgoals.setAdapter(adaptergoals);
    Button one= (Button) findViewById(R.id.calc);
    one.setOnClickListener(new View.OnClickListener() {
      public void onClick(View v) {
        weight = (EditText) findViewById(R.id.weight);
        height = (EditText) findViewById(R.id.height);
        age = (EditText) findViewById(R.id.age);
        name = (EditText) findViewById(R.id.namevar);
        String ass;
        int Gender, starss;
        RadioGroup rg = (RadioGroup) findViewById(R.id.radioGroup);
        RadioButton male = (RadioButton) findViewById(R.id.Male);
        RadioButton female = (RadioButton) findViewById(R.id.Female);
        selectedId = rg.getCheckedRadioButtonId();
        radioGender = (RadioButton) findViewById(selectedId);
        if (male.isChecked()) {
          Gender = 1;
        } else {
          Gender = 2;
                          }
if (TextUtils.isEmpty(name.getText().toString())) {
          name.setError("Please enter your name");
          Toast.makeText(MainActivity.this, "Please enter your name",
               Toast.LENGTH_LONG).show();
```

```
return; }
if (TextUtils.isEmpty(weight.getText().toString())) {
  weight.setError("Please enter your weight");
  return; }
if (TextUtils.isEmpty(height.getText().toString())) {
  height.setError("Please enter your height");
  return; }
if (TextUtils.isEmpty(age.getText().toString())) {
  age.setError("Please enter your age");
  return; }
Intent i = new Intent(MainActivity.this, Data_Classes.class);
String namevr = name.getText().toString();
double weightvr = Double.parseDouble(weight.getText().toString());
double feets = Double.parseDouble(height.getText().toString());
double heightvr = feets * 30.48;
int agevr = Integer.parseInt(age.getText().toString());
if ((weightvr <= 30) | | (weightvr >= 130)) {
  Toast.makeText(MainActivity.this, "Please enter a valid weight",
      Toast.LENGTH_SHORT).show();
  return;
} else if ((feets < 4.8) | | (feets > 6.8)) {
  Toast.makeText(MainActivity.this, "Please enter a valid height",
      Toast.LENGTH_SHORT).show();
  return;
} else if ((agevr <= 0) | | (agevr >= 100)) {
  Toast.makeText(MainActivity.this, "Please enter a valid age",
      Toast.LENGTH SHORT).show();
  return;
} else {
  if (selectedId == R.id.Male) {
    bmr = (((weightvr * 10) + (heightvr * 6.25)) - (5 * agevr)) + 5;
  } else {
```

```
}
           RadioGroup rg1 = (RadioGroup) findViewById(R.id.radioGroup1);
           radioId = rg1.getCheckedRadioButtonId();
           stars = (RadioButton) findViewById(radioId);
           RadioButton r1 = (RadioButton) findViewById(R.id.r1);
           RadioButton r2 = (RadioButton) findViewById(R.id.r2);
           RadioButton r3 = (RadioButton) findViewById(R.id.r3);
           RadioButton r4 = (RadioButton) findViewById(R.id.r4);
           RadioButton r5 = (RadioButton) findViewById(R.id.r5);
           if (r1.isChecked()) {
             starss = 1;
           } else if (r2.isChecked()) {
             starss = 2;
           } else if (r3.isChecked()) {
             starss = 3;
           } else if (r4.isChecked()) {
             starss = 4;
           } else {
             starss = 5; }
           if (radioId == R.id.r1) {
             bmr = bmr * 1.2;
           } else if (radioId == R.id.r2) {
             bmr = bmr * 1.375;
           } else if (radioId == R.id.r3) {
             bmr = bmr * 1.55;
           } else if (radioId == R.id.r4) {
             bmr = bmr * 1.725;
           } else {
             bmr = bmr * 1.9; }
           bmi = (float) (weightvr / ((heightvr / 100) * (heightvr / 100)));
if (bmi < 16) {
```

bmr = (((weightvr \* 10) + (heightvr \* 6.25)) - (5 \* agevr)) - 161;

```
ass = "Severely underweight";
} else if (bmi < 18.5) {
  ass = "Underweight";
} else if (bmi < 25) {
  ass = "Normal";
} else if (bmi < 30) {
  ass = "Overweight";
} else {
  ass = "Obese";
}
sgoals= spgoals.getSelectedItem().toString();
if (sgoals == "Maintain Weight"){
  bmr = bmr;
} else if (sgoals == "Gain 0.5kg per week") {
  bmr = bmr + 500;
} else if (sgoals == "Gain 1kg per week") {
  bmr = bmr + 1000;
} else if (sgoals == "Lose 0.5kg per week") {
  bmr = bmr - 500;
} else if (sgoals == "Lose 1kg per week") {
  bmr = bmr - 1000;
}
txtresult = (TextView) findViewById(R.id.result1);
resulttext = "Your BMI is: " + String.format("%.2f", bmi) + "\nYou are " + ass;
double daily = bmr;
String results = resulttext;
double calories = bmr;
double tempo = 0.0;
Calendar calendar = Calendar.getInstance();
DateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");
Date today = calendar.getTime();
String dates = dateFormat.format(today);
```

```
SQLiteHandler db = new SQLiteHandler(getApplicationContext());
          db.addUser(namevr, Gender, agevr, weightvr, heightvr, starss, results, calories,
dates, daily, tempo);
          db.close();
          startActivity(i);
                         }
                                 } }); } }
          finish();
24) NotificationReciever
package com.example.healthongo;
import android.app.Notification;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.preference.PreferenceManager;
public class NotificationReciever extends BroadcastReceiver {
  @Override
  public void onReceive(Context context, Intent intent) {
    Intent repeatingIntent = new Intent(context, Water.class);
    repeatingIntent.setFlags(Intent.FLAG ACTIVITY CLEAR TOP);
    PendingIntent pendingIntent = PendingIntent.getActivity(context,100,repeatingIntent,
PendingIntent.FLAG_UPDATE_CURRENT);
    NotificationManager notificationManager = (NotificationManager)
context.getSystemService(Context.NOTIFICATION_SERVICE);
    Notification.Builder builder =setupNotification(context);
    builder.setContentIntent(pendingIntent);
    notificationManager.notify(100, builder.build());
 }
  private Notification.Builder setupNotification(Context context) {
    Notification.Builder builder = new Notification.Builder(context);
```

## 25) NumberPickerPreference

```
package com.example.healthongo;
import android.content.Context;
import android.content.res.TypedArray;
import android.preference.DialogPreference;
import android.util.AttributeSet;
import android.view.Gravity;
import android.view.View;
import android.view.ViewGroup;
import android.widget.FrameLayout;
import android.widget.NumberPicker;
public class NumberPickerPreference extends DialogPreference {
  public static final int DEFAULT_MAX_VALUE = 100;
  public static final int DEFAULT MIN VALUE = 0;
  public static final boolean DEFAULT WRAP SELECTOR WHEEL = true;
  private final int minValue;
  private final int maxValue;
  private final boolean wrapSelectorWheel;
  private NumberPicker picker;
  private int value;
  public NumberPickerPreference(Context context, AttributeSet attrs) {
```

```
this(context, attrs, android.R.attr.dialogPreferenceStyle); }
  public NumberPickerPreference(Context context, AttributeSet attrs, int defStyleAttr) {
    super(context, attrs, defStyleAttr);
    final TypedArray a = context.obtainStyledAttributes(attrs,
R.styleable.NumberPickerPreference);
    minValue = a.getInteger(R.styleable.NumberPickerPreference_minValue,
DEFAULT_MIN_VALUE);
    maxValue = a.getInteger(R.styleable.NumberPickerPreference_maxValue,
DEFAULT_MAX_VALUE);
    wrapSelectorWheel =
a.getBoolean(R.styleable.NumberPickerPreference_wrapSelectorWheel,
DEFAULT_WRAP_SELECTOR_WHEEL);
    a.recycle(); }
  @Override
  protected View onCreateDialogView() {
    FrameLayout.LayoutParams layoutParams = new
FrameLayout.LayoutParams(ViewGroup.LayoutParams.WRAP_CONTENT,
ViewGroup.LayoutParams.WRAP_CONTENT);
    layoutParams.gravity = Gravity.CENTER;
    picker = new NumberPicker(getContext());
    picker.setLayoutParams(layoutParams);
    FrameLayout dialogView = new FrameLayout(getContext());
    dialogView.addView(picker);
    return dialogView; }
  @Override
  protected void onBindDialogView(View view) {
    super.onBindDialogView(view);
    picker.setMinValue(minValue);
    picker.setMaxValue(maxValue);
    picker.setWrapSelectorWheel(wrapSelectorWheel);
    picker.setValue(getValue()); }
  @Override
```

```
protected void onDialogClosed(boolean positiveResult) {
    if (positiveResult) {
      picker.clearFocus();
      int newValue = picker.getValue();
      if (callChangeListener(newValue)) {
        setValue(newValue);
      }
         } }
  @Override
  protected Object onGetDefaultValue(TypedArray a, int index) {
    return a.getInt(index, minValue); }
  @Override
  protected void onSetInitialValue(boolean restorePersistedValue, Object defaultValue) {
    setValue(restorePersistedValue ? getPersistedInt(minValue) : (Integer) defaultValue); }
  public void setValue(int value) {
    this.value = value;
    persistInt(this.value); }
  public int getValue() {
    return this.value; }}
26) OutlineActivity
package com.example.healthongo;
import android.app.Fragment;
import android.app.FragmentManager;
import android.os.Bundle;
import android.widget.TextView;
import androidx.viewpager.widget.ViewPager;
import androidx.viewpager.widget.PagerAdapter;
public class OutlineActivity extends AppCompatActivity {
  private TextView pageMun;
  private PagerAdapter pagerAdapter;
  @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_outline);
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    getSupportActionBar().setDisplayShowHomeEnabled(true);
    pageMun = (TextView) findViewById(R.id.pageNum);
    ViewPager pager = (ViewPager) findViewById(R.id.pager);
    pagerAdapter = new MyPagerAdapter(getFragmentManager());
    pager.setAdapter(pagerAdapter);
    pager.addOnPageChangeListener(new ViewPager.OnPageChangeListener() {
      @Override
    public void onPageScrolled(int position, float positionOffset, int positionOffsetPixels){}
      @Override
      public void onPageSelected(int position) {
        pageMun.setText(((position + 1) + "/" + pagerAdapter.getCount()) );
                                                                               }
      @Override
      public void onPageScrollStateChanged(int state) { }
    }); }
  private class MyPagerAdapter extends FragmentPagerAdapter {
    Fragment[] fragments = new Fragment[6];
    public MyPagerAdapter(FragmentManager fm) {
      super(fm);
      fragments[0] = adviceFragment.create(R.string.wake_up_review,
R.drawable.wakeup);
      fragments[1] = adviceFragment.create( R.string.sleep review, R.drawable.sleep);
      fragments[2] = adviceFragment.create( R.string.shower review, R.drawable.shower);
      fragments[3] = adviceFragment.create( R.string.meal_review, R.drawable.eat);
      fragments[4] = adviceFragment.create( R.string.lose weight,
R.drawable.lose_weight);
      fragments[5] = adviceFragment.create( R.string.lack_water, R.drawable.pheart); }
```

```
@Override
    public Fragment getItem(int position) {
      return fragments[position];
    @Override
    public int getCount() {
      return fragments.length;
                                  } }
  @Override
  public boolean onSupportNavigateUp() {
    onBackPressed();
    return true; }}
27) PreferenceKey
package com.example.healthongo;
public class PreferenceKey {
  public final static String PREF_START_TIME = "key_from_time";
  public final static String PREF_EBD_TIME = "key to time";
  public final static String PREF GLASS SIZE = "key glass";
  public final static String PREF_BOTTLE_SIZE="key_bottle";
  public final static String PREF_INTERVAL="key notif interval time";
  public final static String PREF_IS_ENABLED="key notif enable";
  public final static String PREF SOUND="key notif sound";
  public final static String PREF_WEIGHT_NUMBER = "key weight number";
  public final static String PREF_TRAINING="key training";
  public final static String PREF WATER NEED="key water recommendation";
  public final static String FROM_KEY= "from";
  public final static String TO_KEY= "to";
}
28) PrefsHelper
package com.example.healthongo;
```

import android.content.Context;

```
import android.content.SharedPreferences;
import android.preference.PreferenceManager;
public class PrefsHelper {
  public static int getWaterNeedPrefs(Context context){
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    return prefs.getInt(PreferenceKey.PREF_WATER_NEED,2500); }
  public static boolean getNotificationsPrefs(Context context) {
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    return prefs.getBoolean(PreferenceKey.PREF_IS_ENABLED,true); }
  public static boolean getSoundsPrefs(Context context){
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    return prefs.getBoolean(PreferenceKey.PREF_SOUND,false); }
  public static String getGlassSizePrefs(Context context){
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
    return prefs.getString(PreferenceKey.PREF_GLASS_SIZE,"250"); }
  public static String getBottleSizePrefs(Context context){
    SharedPreferences prefs = PreferenceManager.getDefaultSharedPreferences(context);
     return prefs.getString(PreferenceKey.PREF_BOTTLE_SIZE, "1500"); }
  public static boolean getFirstTimeRunPrefs(Context context){
    SharedPreferences pref = PreferenceManager.getDefaultSharedPreferences(context);
   return pref.getBoolean("first_time_run", true); }
  public static void setFirstTimeRunPrefs(Context context, boolean b) {
    SharedPreferences pref = PreferenceManager.getDefaultSharedPreferences(context);
    SharedPreferences.Editor editor = pref.edit();
    editor.putBoolean("first time run", b);
    editor.commit(); }}
```

## 29) Reset

```
package com.example.healthongo;
import android.os.Bundle;
import android.text.TextUtils;
```

```
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.Toast;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;
public class Reset extends AppCompatActivity {
  private EditText inputEmail;
  private Button btnReset, btnBack;
  private FirebaseAuth auth;
  private ProgressBar progressBar;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_reset);
    inputEmail = (EditText) findViewById(R.id.email);
    btnReset = (Button) findViewById(R.id.btn_reset_password);
    btnBack = (Button) findViewById(R.id.btn_back);
    auth = FirebaseAuth.getInstance();
    btnBack.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        finish();
                      }
                           });
    btnReset.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        String email = inputEmail.getText().toString().trim();
        if (TextUtils.isEmpty(email)) {
          Toast.makeText(getApplication(), "Enter your registered email id",
Toast.LENGTH_SHORT).show();
```

```
}
           return;
         auth.sendPasswordResetEmail(email)
             .addOnCompleteListener(new OnCompleteListener<Void>() {
                @Override
               public void onComplete(@NonNull Task<Void> task) {
                  if (task.isSuccessful()) {
                    Toast.makeText(Reset.this, "We have sent you instructions to reset your
password!", Toast.LENGTH_SHORT).show();
                 } else {
                    Toast.makeText(Reset.this, "Failed to send reset email!",
Toast.LENGTH_SHORT).show();
                                                 }
                  progressBar.setVisibility(View.GONE);
               }
                              });
                                      }
                                          });
                                                  }}
30) SensorFilter
package com.example.healthongo;
public class SensorFilter {
  private SensorFilter() {
  }
  public static float sum(float[] array) {
    float retval = 0;
    for (int i = 0; i < array.length; i++) {
      retval += array[i];
                            }
    return retval; }
  public static float[] cross(float[] arrayA, float[] arrayB) {
    float[] retArray = new float[3];
    retArray[0] = arrayA[1] * arrayB[2] - arrayA[2] * arrayB[1];
    retArray[1] = arrayA[2] * arrayB[0] - arrayA[0] * arrayB[2];
    retArray[2] = arrayA[0] * arrayB[1] - arrayA[1] * arrayB[0];
    return retArray; }
```

public static float norm(float[] array) {

```
float retval = 0;
    for (int i = 0; i < array.length; i++) {
      retval += array[i] * array[i];
    return (float) Math.sqrt(retval); }
  public static float dot(float[] a, float[] b) {
    float retval = a[0] * b[0] + a[1] * b[1] + a[2] * b[2];
    return retval; }
  public static float[] normalize(float[] a) {
    float[] retval = new float[a.length];
    float norm = norm(a);
    for (int i = 0; i < a.length; i++) {
      retval[i] = a[i] / norm; }
    return retval; }}
31) Settings
package com.example.healthongo;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.Toast;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
public class Settings extends AppCompatActivity {
  private Button btnChangeEmail, btnChangePassword, btnSendResetEmail,
btnRemoveUser,
```

```
changeEmail, changePassword, sendEmail, remove, signOut;
private EditText oldEmail, newEmail, password, newPassword;
private ProgressBar progressBar;
private FirebaseAuth.AuthStateListener authListener;
private FirebaseAuth auth;
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_log_out);
  getSupportActionBar().setTitle("Settings");
  auth = FirebaseAuth.getInstance();
  final FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
  authListener = new FirebaseAuth.AuthStateListener() {
    @Override
    public void onAuthStateChanged(@NonNull FirebaseAuth firebaseAuth) {
      FirebaseUser user = firebaseAuth.getCurrentUser();
      if (user == null) {
        startActivity(new Intent(Settings.this, login.class));
        finish(); }} };
  btnChangeEmail = (Button) findViewById(R.id.change_email_button);
  btnChangePassword = (Button) findViewById(R.id.change_password_button);
  btnSendResetEmail = (Button) findViewById(R.id.sending_pass_reset_button);
  btnRemoveUser = (Button) findViewById(R.id.remove_user_button);
  changeEmail = (Button) findViewById(R.id.changeEmail);
  changePassword = (Button) findViewById(R.id.changePass);
  sendEmail = (Button) findViewById(R.id.send);
  remove = (Button) findViewById(R.id.remove);
  signOut = (Button) findViewById(R.id.sign out);
  oldEmail = (EditText) findViewById(R.id.old email);
  newEmail = (EditText) findViewById(R.id.new email);
  password = (EditText) findViewById(R.id.password);
  newPassword = (EditText) findViewById(R.id.newPassword);
```

```
oldEmail.setVisibility(View.GONE);
newEmail.setVisibility(View.GONE);
password.setVisibility(View.GONE);
newPassword.setVisibility(View.GONE);
changeEmail.setVisibility(View.GONE);
changePassword.setVisibility(View.GONE);
sendEmail.setVisibility(View.GONE);
remove.setVisibility(View.GONE);
progressBar = (ProgressBar) findViewById(R.id.progressBar);
if (progressBar != null) {
  progressBar.setVisibility(View.GONE);
                                           }
btnChangeEmail.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    oldEmail.setVisibility(View.GONE);
    newEmail.setVisibility(View.VISIBLE);
    password.setVisibility(View.GONE);
    newPassword.setVisibility(View.GONE);
    changeEmail.setVisibility(View.VISIBLE);
    changePassword.setVisibility(View.GONE);
    sendEmail.setVisibility(View.GONE);
    remove.setVisibility(View.GONE);
                                           }
                                                });
changeEmail.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    progressBar.setVisibility(View.VISIBLE);
    if (user != null && !newEmail.getText().toString().trim().equals("")) {
      user.updateEmail(newEmail.getText().toString().trim())
           .addOnCompleteListener(new OnCompleteListener<Void>() {
             @Override
             public void onComplete(@NonNull Task<Void> task) {
               if (task.isSuccessful()) {
```

```
Toast.makeText(Settings.this, "Email address is updated. Please sign
in with new email id!", Toast.LENGTH_LONG).show();
                      signOut();
                      progressBar.setVisibility(View.GONE);
                   } else {
                      Toast.makeText(Settings.this, "Failed to update email!",
Toast.LENGTH_LONG).show();
                      progressBar.setVisibility(View.GONE); } } });
        } else if (newEmail.getText().toString().trim().equals("")) {
          newEmail.setError("Enter email");
           progressBar.setVisibility(View.GONE);
                                                 } } });
    btnChangePassword.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        oldEmail.setVisibility(View.GONE);
        newEmail.setVisibility(View.GONE);
        password.setVisibility(View.GONE);
        newPassword.setVisibility(View.VISIBLE);
        changeEmail.setVisibility(View.GONE);
        changePassword.setVisibility(View.VISIBLE);
        sendEmail.setVisibility(View.GONE);
        remove.setVisibility(View.GONE); }
                                                });
    changePassword.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        progressBar.setVisibility(View.VISIBLE);
        if (user != null && !newPassword.getText().toString().trim().equals("")) {
           if (newPassword.getText().toString().trim().length() < 6) {
             newPassword.setError("Password too short, enter minimum 6 characters");
             progressBar.setVisibility(View.GONE);
          } else {
             user.updatePassword(newPassword.getText().toString().trim())
```

```
.addOnCompleteListener(new OnCompleteListener<Void>() {
                   @Override
                   public void onComplete(@NonNull Task<Void> task) {
                      if (task.isSuccessful()) {
                       Toast.makeText(Settings.this, "Password is updated, sign in with
new password!", Toast.LENGTH_SHORT).show();
                       signOut();
                       progressBar.setVisibility(View.GONE);
                     } else {
                       Toast.makeText(Settings.this, "Failed to update password!",
Toast.LENGTH_SHORT).show();
                       progressBar.setVisibility(View.GONE);
                     }}});}
        } else if (newPassword.getText().toString().trim().equals("")) {
          newPassword.setError("Enter password");
          progressBar.setVisibility(View.GONE);
        } });
    btnSendResetEmail.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        oldEmail.setVisibility(View.VISIBLE);
        newEmail.setVisibility(View.GONE);
        password.setVisibility(View.GONE);
        newPassword.setVisibility(View.GONE);
        changeEmail.setVisibility(View.GONE);
        changePassword.setVisibility(View.GONE);
        sendEmail.setVisibility(View.VISIBLE);
        remove.setVisibility(View.GONE);
      }
           });
    sendEmail.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
```

```
progressBar.setVisibility(View.VISIBLE);
        if (!oldEmail.getText().toString().trim().equals("")) {
           auth.sendPasswordResetEmail(oldEmail.getText().toString().trim())
               .addOnCompleteListener(new OnCompleteListener<Void>() {
                 @Override
                 public void onComplete(@NonNull Task<Void> task) {
                   if (task.isSuccessful()) {
                      Toast.makeText(Settings.this, "Reset password email is sent!",
Toast.LENGTH_SHORT).show();
                      progressBar.setVisibility(View.GONE);
                   } else {
                      Toast.makeText(Settings.this, "Failed to send reset email!",
Toast.LENGTH_SHORT).show();
                      progressBar.setVisibility(View.GONE);
                   } });
        } else {
           oldEmail.setError("Enter email");
           progressBar.setVisibility(View.GONE);
        }
                }
                     });
    btnRemoveUser.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        progressBar.setVisibility(View.VISIBLE);
        AlertDialog.Builder builder = new AlertDialog.Builder(Settings.this);
        builder.setMessage("Are you sure you want to delete yout account?");
        builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
           public void onClick(DialogInterface dialog, int id) {
             dialog.dismiss();
             if (user != null) {
               user.delete()
                   .addOnCompleteListener(new OnCompleteListener<Void>() {
                      @Override
```

```
public void onComplete(@NonNull Task<Void> task) {
                         if (task.isSuccessful()) {
                           Toast.makeText(Settings.this, "Your profile is deleted:( Create a
account now!", Toast.LENGTH_SHORT).show();
                           startActivity(new Intent(Settings.this, SignUp.class));
                           finish();
                           progressBar.setVisibility(View.GONE);
                         } else {
                           Toast.makeText(Settings.this, "Failed to delete your account!",
Toast.LENGTH_SHORT).show();
progressBar.setVisibility(View.GONE); }
                      } });
                                       }} });
         builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
           public void onClick(DialogInterface dialog, int id) {
             dialog.dismiss();}});
         AlertDialog alert = builder.create();
         alert.show();}});
    signOut.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) {
         AlertDialog.Builder builder = new AlertDialog.Builder(Settings.this);
         builder.setMessage("Are you sure you want to exit?");
         builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
           public void onClick(DialogInterface dialog, int id) {
             dialog.dismiss();
             signOut();
                                  }
                                            });
         builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
           public void onClick(DialogInterface dialog, int id) {
             dialog.dismiss();
                                         }
                                                   });
         AlertDialog alert = builder.create();
         alert.show();
```

```
}
           }); }
  public void signOut() {
    auth.signOut(); }
  @Override
  protected void onResume() {
    super.onResume();
    progressBar.setVisibility(View.GONE); }
  @Override
  public void onStart() {
    super.onStart();
    auth.addAuthStateListener(authListener); }
  @Override
  public void onStop() {
    super.onStop();
    if (authListener != null) {
      auth.removeAuthStateListener(authListener);
                                                      } }}
32) SettingsActivity
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import android.os.Bundle;
import android.preference.PreferenceActivity;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.FrameLayout;
import android.widget.LinearLayout;
public class SettingsActivity extends PreferenceActivity {
static Toolbar bar;
@Override
  protected void onCreate(final Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
    LinearLayout root =
(LinearLayout)findViewById(android.R.id.list).getParent().getParent().getParent();
    bar = (Toolbar) LayoutInflater.from(this).inflate(R.layout.settings_toolbar, root, false);
    root.addView(bar, 0);
bar.setNavigationOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        finish();}});
    FrameLayout frameLayout = (FrameLayout)
LayoutInflater.from(this).inflate(R.layout.seetings fragment, root, false);
    root.addView(frameLayout,1);
    getFragmentManager().beginTransaction().replace(R.id.content_frame, new
FragmentPrefs()).commit();}}
33) SignUp
package com.example.healthongo;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.util.Patterns;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.Toast;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
```

```
public class SignUp extends AppCompatActivity {
  EditText inputEmail, inputPassword,inputName,inputPassword2,mobile;
  FirebaseAuth auth;
  private ProgressDialog progressDialog;
  Button btnSignUp,btnSignIn;
  ProgressBar progressBar;
  private Awesome Validation awesome Validation;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_sign_up);
    auth = FirebaseAuth.getInstance();
    btnSignUp = (Button) findViewById(R.id.button3);
    inputEmail = (EditText) findViewById(R.id.email2);
    inputPassword = (EditText) findViewById(R.id.password2);
    inputName = (EditText) findViewById(R.id.name1);
    btnSignIn = (Button) findViewById(R.id.link login);
    mobile= (EditText)findViewById(R.id.mobile);
    progressBar = (ProgressBar) findViewById(R.id.progressBar);
    awesomeValidation = new AwesomeValidation(ValidationStyle.BASIC);
    progressDialog = new ProgressDialog(this);
    btnSignIn.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        startActivity(new Intent(SignUp.this, login.class));
      } });
    btnSignUp.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        checkDataEntered();
        String email = inputEmail.getText().toString();
        String password = inputPassword.getText().toString();
```

```
String inmobile=mobile.getText().toString();
        String name = inputName.getText().toString().trim();
        if (email.isEmpty()) {
          inputEmail.setError("Enter Email");
        }
        if (password.isEmpty()) {
          inputPassword.setError("ENter password");
        }
        if (name.isEmpty()) {
          Toast.makeText(getApplicationContext(), "Enter name!",
Toast.LENGTH_SHORT).show();
          return;
        }
        if (inmobile.isEmpty())
        {
          Toast.makeText(getApplicationContext(),"Enter phone
no",Toast.LENGTH_SHORT).show();
          return;
        }
        progressDialog.setMessage("Registering Please Wait...");
        progressDialog.show();
        progressBar.setVisibility(View.VISIBLE);
        auth.createUserWithEmailAndPassword(email, password)
             .addOnCompleteListener(SignUp.this, new
OnCompleteListener<AuthResult>(){
              @Override
public void onComplete(@NonNull Task<AuthResult> task) {
                 Toast.makeText(SignUp.this, "createUserWithEmail:onComplete:" +
task.isSuccessful(), Toast.LENGTH_SHORT).show();
                 progressBar.setVisibility(View.GONE);
                 progressDialog.dismiss();
                  if (!task.isSuccessful()) {
```

```
Toast.makeText(SignUp.this, "Authentication failed." +
task.getException(),
Toast.LENGTH_SHORT).show();
                                                }
                  else {
                   startActivity(new Intent(SignUp.this, login.class));
                   finish(); } }); }); }
  boolean isEmail(EditText text) {
    CharSequence email = text.getText().toString();
    return (!TextUtils.isEmpty(email) &&
Patterns.EMAIL_ADDRESS.matcher(email).matches());
  boolean isEmpty(EditText text) {
    CharSequence str = text.getText().toString();
    return TextUtils.isEmpty(str);
  boolean isNumber(EditText text){
    CharSequence number = text.getText().toString();
    return (!TextUtils.isEmpty(number) && Patterns.PHONE.matcher(number).matches(); }
  void checkDataEntered()
      {
        if (isEmail(inputEmail) == false) {
          inputEmail.setError("Enter valid email!");
                                                            }
        if (inputPassword.length() < 6) {</pre>
          inputPassword.setError("Enter password should be more than 6");
                                                                                     }
        if (isEmpty(inputName)) {
          inputName.setError(" name is required!");
                                                             }
        if (isNumber(mobile) == false) {
           mobile.setError("Enter valid number!");
                                                                 }
  @Override
  protected void onResume() {
    super.onResume();
    progressBar.setVisibility(View.GONE);
    progressDialog.dismiss(); } }
```

## 34)StepsDetector

```
package com.example.healthongo;
public class StepDetector {
 private static final int ACCEL_RING_SIZE = 50;
  private static final int VEL_RING_SIZE = 10;
  private static final float STEP_THRESHOLD = 25f;
  private static final int STEP_DELAY_NS = 250000000;
  private int accelRingCounter = 0;
  private float[] accelRingX = new float[ACCEL_RING_SIZE];
  private float[] accelRingY = new float[ACCEL_RING_SIZE];
  private float[] accelRingZ = new float[ACCEL RING SIZE];
  private int velRingCounter = 0;
  private float[] velRing = new float[VEL RING SIZE];
  private long lastStepTimeNs = 0;
  private float oldVelocityEstimate = 0;
  private StepListener listener;
  public void registerListener(StepListener listener) {
    this.listener = listener;
  }
  public void updateAccel(long timeNs, float x, float y, float z) {
    float[] currentAccel = new float[3];
    currentAccel[0] = x;
    currentAccel[1] = y;
    currentAccel[2] = z;
    accelRingCounter++;
    accelRingX[accelRingCounter % ACCEL_RING_SIZE] = currentAccel[0];
    accelRingY[accelRingCounter % ACCEL RING SIZE] = currentAccel[1];
    accelRingZ[accelRingCounter % ACCEL RING SIZE] = currentAccel[2];
    float[] worldZ = new float[3];
    worldZ[0] = SensorFilter.sum(accelRingX) / Math.min(accelRingCounter,
ACCEL_RING_SIZE);
    worldZ[1] = SensorFilter.sum(accelRingY) / Math.min(accelRingCounter,
```

```
ACCEL_RING_SIZE);
    worldZ[2] = SensorFilter.sum(accelRingZ) / Math.min(accelRingCounter,
ACCEL_RING_SIZE);
    float normalization factor = SensorFilter.norm(worldZ);
    worldZ[0] = worldZ[0] / normalization_factor;
    worldZ[1] = worldZ[1] / normalization factor;
    worldZ[2] = worldZ[2] / normalization_factor;
    float currentZ = SensorFilter.dot(worldZ, currentAccel) - normalization_factor;
    velRingCounter++;
    velRing[velRingCounter % VEL_RING_SIZE] = currentZ;
    float velocityEstimate = SensorFilter.sum(velRing);
    if (velocityEstimate > STEP_THRESHOLD && oldVelocityEstimate <= STEP_THRESHOLD
        && (timeNs - lastStepTimeNs > STEP_DELAY_NS)) {
      listener.step(timeNs);
      lastStepTimeNs = timeNs; }
    oldVelocityEstimate = velocityEstimate; }}
35)TimeLogActivity
package com.example.healthongo;
import android.app.Dialog;
import android.app.DialogFragment;
import android.content.Context;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.ListView;
import android.widget.NumberPicker;
import android.widget.TextView;
import android.widget.TimePicker;
```

```
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.List;
import java.util.Locale;
public class TimeLogActivity extends AppCompatActivity implements View.OnClickListener,
Number Picker. On Value Change Listener\ ,\ Time Picker Fragment. On Time Picked Listener\ \{a,b,c\}
  private List<TimeLog> values;
  private ArrayAdapter<TimeLog> adapter;
  private ListView listView;
  private DrinkDataSource db;
  TextView waterLog, dateTv;
  NumberPicker numberPicker, updateNumberPicker;
  Dialog addDrinkdialog, updateDrinkDialog,
numberpickerDialog,updateNumberPickerDialog;
  Button otherSize, cancel, glassButton, bottleButton,
set Button, set Button In Update Dialog, update To Other Size, \ cancel Update Dialog, \\
glassButtonInUpdateDialog, bottleButtonInUpdateDialog;
  TimePicker timePicker;
  private int glassSize;
  private int bottleSize;
  private String containerTyp=null;
  private int removedValue=0;
  private int ID=0;
  private int pickerValue;
  private String sortBy;
  private int amountToInsert=0;
  private String date;
  private boolean soundEnable;
  private MediaPlayer mediaPlayer;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    getSupportActionBar().setDisplayShowHomeEnabled(true);
    setContentView(R.layout.time_log_activity);
    Bundle bundle = getIntent().getExtras();
    date = bundle.get(Commands.DateLogItem).toString();
    setTitle(date);
    db = new DrinkDataSource(this);
    db.open();
    values = db.getAllTimeLogs( db.sortByTimeDesc(),date);
    listView = (ListView) findViewById(R.id.time_log_list);
    adapter = new myListAdapter(this);
    adapter.notifyDataSetChanged();
    listView.setAdapter(adapter);
    mediaPlayer= MediaPlayer.create(this, R.raw.splash_water);
    addDrinkdialog = new Dialog(this);
    updateDrinkDialog = new Dialog(this);
    numberpickerDialog = new Dialog(this);
    updateNumberPickerDialog = new Dialog(this);
    initializeViews();
    loadContainerSizePrefs();
    loadSoundsPrefs();
 }
  private void loadSoundsPrefs() {
    SharedPreferences prefs =
PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
    soundEnable = prefs.getBoolean(PreferenceKey.PREF_SOUND, false);
 }
  private void loadContainerSizePrefs() {
    SharedPreferences prefs =
PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
    String glassSizeV= prefs.getString(PreferenceKey.PREF_GLASS_SIZE,"250");
    String bottleSizeV= prefs.getString(PreferenceKey.PREF_BOTTLE_SIZE, "1500");
```

```
glassSize = Integer.valueOf(glassSizeV);
  bottleSize = Integer.valueOf(bottleSizeV);
  glassButton.setText(glassSizeV+ " ml");
  bottleButton.setText(bottleSizeV+ " ml");
  glassButtonInUpdateDialog.setText(glassSizeV+ " ml");
  bottleButtonInUpdateDialog.setText(bottleSizeV+ " ml"); }
@Override
public boolean onSupportNavigateUp() {
  onBackPressed();
  return true; }
private void setNumberPickerFormat() {
  NumberPicker.Formatter formatter = new NumberPicker.Formatter() {
    @Override
    public String format(int value) {
      value = value * 5;
      return value + " ml";
                                     };
  numberPicker.setMaxValue(300);
  numberPicker.setMinValue(0);
  numberPicker.setWrapSelectorWheel(false);
  numberPicker.setOnValueChangedListener(this); }
private void setNumberPickerFormatInUpdateDialog() {
  NumberPicker.Formatter formatter = new NumberPicker.Formatter() {
    @Override
    public String format(int value) {
      value = value * 5;
      return value + " ml";
                                }
                                     };
  updateNumberPicker.setMaxValue(300);
  updateNumberPicker.setMinValue(1);
  updateNumberPicker.setWrapSelectorWheel(false);
  updateNumberPicker.setOnValueChangedListener(this); }
@Override
public void onValueChange(NumberPicker picker, int oldVal, int newVal) {
```

```
pickerValue=picker.getValue()*5; }
@Override
public void onClick(View view) {
  int id = view.getId();
  switch (id) {
    case R.id.water_bottle_button:
      addBottle();
      break;
    case R.id.water_bottle_button2:
      updateToBottle();
      break;
    case R.id.water_glass_button:
      addGlass();
      break;
    case R.id.water_glass_button2:
      updateToGlass();
      break;
    case R.id.cancel_button:
      addDrinkdialog.dismiss();
      break;
    case R.id.cancel_button2:
      updateDrinkDialog.dismiss();
      break;
    case R.id.other_size_button:
      addDrinkdialog.dismiss();
      showNumberPickerDialog();
      break;
    case R.id.other_size_button2:
      updateDrinkDialog.dismiss();
      showNumberPickerDialogToUpdate();
      break;
    case R.id.set_button:
```

```
addFromNumberPiker();
      break;
    case R.id.set_button2:
      updateFromNumberPiker();
      break; } }
private void addFromNumberPiker() {
  amountToInsert=pickerValue;
  containerTyp="other";
  numberpickerDialog.dismiss();
  showTimePickerDialog(); }
private void addGlass(){
  amountToInsert=glassSize;
  containerTyp="glass";
  addDrinkdialog.dismiss();
  showTimePickerDialog(); }
private void addBottle() {
  amountToInsert=bottleSize;
  containerTyp="bottle";
  addDrinkdialog.dismiss();
  showTimePickerDialog(); }
private void updateFromNumberPiker() {
  db.updateConsumedWaterInDateLog( - removedValue,date);
  db.updateTimeLog(ID,pickerValue,"other");
  db.updateConsumedWaterInDateLog(pickerValue,date);
  playSound();
  updateNumberPickerDialog.dismiss();
  updateViews();
}
private void updateToGlass(){
  db.updateConsumedWaterInDateLog(-removedValue,date);
  db.updateTimeLog(ID,glassSize,"glass");
  db.updateConsumedWaterInDateLog( glassSize,date);
```

```
playSound();
  updateDrinkDialog.dismiss();
  updateViews(); }
private void updateToBottle() {
  int v= db.updateConsumedWaterInDateLog(- removedValue,date);
  db.updateTimeLog(ID,bottleSize,"bottle");
  db.updateConsumedWaterInDateLog( bottleSize,date);
  playSound();
  updateDrinkDialog.dismiss();
  updateViews(); }
private void showAddDrinkDialog() {
  addDrinkdialog.setTitle("Select container");
  addDrinkdialog.show(); }
private void showUpdateDrinkDialog() {
  updateDrinkDialog.setTitle("Select container");
  updateDrinkDialog.show(); }
private void showNumberPickerDialog() {
  numberpickerDialog.setTitle("select size");
  numberpickerDialog.show(); }
private void showNumberPickerDialogToUpdate() {
  updateNumberPickerDialog.setTitle("select size");
  updateNumberPickerDialog.show(); }
public void showTimePickerDialog() {
  Integer hour = 0;
  Integer minute = 0;
  Integer layoutId=R.layout.time_picker_dialog;
  Bundle bundle = new Bundle();
  bundle.putInt("layoutId", layoutId);
  bundle.putInt("hour", hour);
  bundle.putInt("minute", minute);
  DialogFragment fragment = new TimePickerFragment();
  fragment.setArguments(bundle);
```

```
fragment.show(getFragmentManager(), Integer.toString(layoutId));
  }
  @Override
  public void onTimePicked(int textId, int hour, int minute) {
    Calendar calendar = Calendar.getInstance();
    calendar.setTimeInMillis(System.currentTimeMillis());
    calendar.set(Calendar.HOUR_OF_DAY, hour);
    calendar.set(Calendar.MINUTE, minute);
    SimpleDateFormat dateFormat = new SimpleDateFormat("HH:mm aa",
Locale.getDefault());
    Calendar now = Calendar.getInstance();
    if(date.equals(DateHandler.getCurrentFormedDate())&&calendar.after(now)){
      AlertDialog alertDialog = new AlertDialog.Builder(TimeLogActivity.this).create();
      alertDialog.setTitle("Error!");
      alertDialog.setMessage("This chosen time is after the current time, please chose a
valid time!");
      alertDialog.setButton(AlertDialog.BUTTON_NEUTRAL, "OK",
          new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int which) {
               dialog.dismiss();
            }
                        });
      alertDialog.show();
    else {
      String addedTime = dateFormat.format(calendar.getTime());
      db.createTimeLog(amountToInsert,containerTyp, date, addedTime);
      db.updateConsumedWaterInDateLog( amountToInsert, date);
      playSound();
      updateViews();
      amountToInsert = 0; } }
  private class myListAdapter extends ArrayAdapter<TimeLog> {
   public myListAdapter(Context context) {
      super(context, R.layout.time_log_raw, values);
                                                        }
```

```
public View getView(final int position, View convertView, ViewGroup parent) {
     View itemView = convertView;
      if (itemView == null) {
        itemView = getLayoutInflater().inflate(
             R.layout.time_log_raw, parent, false);
      dateTv = (TextView) itemView.findViewById(R.id.time);
      dateTv.setText(values.get(position).getTime());
      ImageView typ = (ImageView) itemView.findViewById(R.id.containerTyp);
      if(values.get(position).getContainerTyp().equals("glass"))
        typ.setImageDrawable(getResources().getDrawable(R.drawable.water_glass,null));
      if (values.get(position).getContainerTyp().equals("bottle"))
       typ.setImageDrawable(getResources().getDrawable(R.drawable.water_bottle,null));
      if (values.get(position).getContainerTyp().equals("other"))
   typ.setImageDrawable(getResources().getDrawable(R.drawable.icon_water_drop,null));
waterLog = (TextView) itemView
           .findViewById(R.id.amount);
      waterLog.setText(values.get(position).getAmount() + " ml");
      itemView.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
          AlertDialog.Builder builder = new AlertDialog.Builder(TimeLogActivity.this);
           builder.setMessage("Select action");
           builder.setPositiveButton("Update", new DialogInterface.OnClickListener() {
             @Override
             public void onClick(DialogInterface dialog, int which) {
               removedValue= values.get(position).getAmount();
               ID= (int) values.get(position).getID();
               showUpdateDrinkDialog();
             }
                        });
           builder.setNegativeButton("Delete", new DialogInterface.OnClickListener() {
             @Override
             public void onClick(DialogInterface dialog, int which) {
```

```
TimeLog time = values.get(position);
              int removedAmount= - time.getAmount();
              db.updateConsumedWaterInDateLog(removedAmount,date);
              db.deleteTimeLog(time);
              updateViews();
            } });
          AlertDialog alert = builder.create();
          alert.show();
        } });
      return itemView;
                       } }
  @Override
  public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu_time_log, menu);
    return true; }
@Override
  public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
      case R.id.add_drink:
        showAddDrinkDialog();
        return true;
      case R.id.sort_by_amount_asc:
        sortBy= db.sortByAmountAsc();
        break;
      case R.id.sort_by_amount_desc:
        sortBy= db.sortByAmountDesc();
        break;
      case R.id.sort_by_time_ASC:
        sortBy= db.sortByTimeAsc();
        break;
      case R.id.sort_by_time_desc:
        sortBy= db.sortByTimeDesc();
                  }
        break;
```

```
reloadAdapter();
    return super.onOptionsItemSelected(item); }
  private void reloadAdapter() {
    adapter.clear();
    adapter.addAll(db.getAllTimeLogs(sortBy,date));
    listView.setAdapter(adapter);
 }
  private void updateViews(){
    int preValue = db.getConsumedPercentage();
    Water.circleProgress.setProgress(preValue);
 Water.choosenAmountTv.setText(String.valueOf(db.geConsumedWaterForToadyDateLog()
        +" out of "+ PrefsHelper.getWaterNeedPrefs(getApplicationContext()))+" ml");
    adapter.clear();
    adapter.addAll(db.getAllTimeLogs(db.sortByTimeDesc(),date));
    listView.setAdapter(adapter);
    DateLogActivity.reloadAdapter(); }
  private void initializeViews() {
    addDrinkdialog.setContentView(R.layout.add_drink_dialog);
    updateDrinkDialog.setContentView(R.layout.update drink dialog);
    numberpickerDialog.setContentView(R.layout.number_picker_dialog);
    numberPicker = (NumberPicker)
numberpickerDialog.findViewById(R.id.numberPicker2);
    updateNumberPickerDialog.setContentView(R.layout.number_picker_dialog_update);
    updateNumberPicker = (NumberPicker)
updateNumberPickerDialog.findViewById(R.id.numberPicker);
    timePicker = (TimePicker) findViewById(R.id.timePicker);
    setButton = (Button) numberpickerDialog.findViewById(R.id.set button);
    setButtonInUpdateDialog = (Button)
updateNumberPickerDialog.findViewById(R.id.set_button2);
    otherSize = (Button) addDrinkdialog.findViewById(R.id.other size button);
    cancel = (Button) addDrinkdialog.findViewById(R.id.cancel button);
    bottleButton = (Button) addDrinkdialog.findViewById(R.id.water bottle button);
```

```
glassButton = (Button) addDrinkdialog.findViewById(R.id.water_glass_button);
    updateToOtherSize = (Button)
updateDrinkDialog.findViewById(R.id.other_size_button2);
    cancelUpdateDialog = (Button) updateDrinkDialog.findViewById(R.id.cancel_button2);
    bottleButtonInUpdateDialog = (Button)
updateDrinkDialog.findViewById(R.id.water_bottle_button2);
    glassButtonInUpdateDialog = (Button)
updateDrinkDialog.findViewById(R.id.water_glass_button2);
    bottleButton.setOnClickListener(this);
    glassButton.setOnClickListener(this);
    cancel.setOnClickListener(this);
    setButton.setOnClickListener(this);
    set Button In Update Dialog. set On Click Listener (this); \\
    otherSize.setOnClickListener(this);
    bottleButtonInUpdateDialog.setOnClickListener(this);
    glassButtonInUpdateDialog.setOnClickListener(this);
    cancelUpdateDialog.setOnClickListener(this);
    updateToOtherSize.setOnClickListener(this);
 }
  private void playSound() {
    if (soundEnable)
      mediaPlayer.start(); }}
36)TimePickerFragment
package com.example.healthongo;
import android.app.Activity;
import android.app.Dialog;
import android.app.DialogFragment;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.text.format.DateFormat;
import android.widget.TimePicker;
```

```
public class TimePickerFragment extends DialogFragment implements
TimePickerDialog.OnTimeSetListener{
  OnTimePickedListener mCallback;
  Integer mLayoutId = null;
  public interface OnTimePickedListener {
    public void onTimePicked(int textId, int hour, int minute); }
@Override
  public void onAttach(Activity activity) {
    super.onAttach(activity);
    try {
      mCallback = (OnTimePickedListener)activity;
    } catch (ClassCastException e) {
      throw new ClassCastException(activity.toString() + " must implement
OnTimePickedListener.");
                             } }
@Override
  public Dialog onCreateDialog(Bundle savedInstanceState) {
    mCallback = (OnTimePickedListener)getActivity();
    Bundle bundle = this.getArguments();
    mLayoutId = bundle.getInt("layoutId");
    int hour = bundle.getInt("hour");
    int minute = bundle.getInt("minute");
    return new TimePickerDialog(getActivity(), this, hour, minute,
DateFormat.is24HourFormat(getActivity()));
 }
  public void onTimeSet(TimePicker view, int hour, int minute) {
    if(mCallback != null)
    {
      mCallback.onTimePicked(mLayoutId, hour, minute);
    } }}
```

#### 37)Water

```
package com.example.healthongo;
import androidx.appcompat.app.AppCompatActivity;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.content.IntentFilter;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
public class Water extends AppCompatActivity implements View.OnClickListener {
  private ImageButton logButton, chartButton, settingButton, outlinesButton;
  private Button addDrinkButton;
  private LinearLayout mainLayout;
  public static DonutProgress circleProgress;
  public static TextView choosenAmountTv;
  private DrinkDataSource db;
  private BroadcastReceiver updateUIReciver;
  private Context context;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_water);
    db= new DrinkDataSource(this);
    db.open();
    context=getApplicationContext();
    checkAppFirstTimeRun();
    AlarmHelper.setDBAlarm(context);
    mainLayout= (LinearLayout) findViewById(R.id.main_view);
```

```
circleProgress = (DonutProgress) findViewById(R.id.donut_progress);
  initializeViews();
  updateView();
  registerUIBroadcastReceiver(); }
private void checkAppFirstTimeRun() {
  if (PrefsHelper.getFirstTimeRunPrefs(context)) {
    db.createDateLog(0,PrefsHelper.getWaterNeedPrefs(context),
        DateHandler.getCurrentDate());
    // AlarmHelper.setDBAlarm(context);
    startActivityForResult(new Intent(getBaseContext(), SettingsActivity.class),0);
    PrefsHelper.setFirstTimeRunPrefs(context,false);
  } }
@Override
protected void onDestroy(){
  unregisterReceiver(updateUIReciver);
  super.onDestroy(); }
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent result) {
  switch (requestCode) {
    case 0:
      db.updateWaterNeedForTodayDateLog(PrefsHelper.getWaterNeedPrefs(context));
      updateView();
      loadNotificationsPrefs();
      break;
                } }
private void loadNotificationsPrefs() {
  boolean isEnable= PrefsHelper.getNotificationsPrefs(context);
  if (isEnable)
    AlarmHelper.setNotificationsAlarm(context);
    AlarmHelper.setCancelNotificationAlarm(context);
  }
  else
```

```
{
      AlarmHelper.stopNotificationsAlarm(context);
    } }
  public void onClick(View v) {
    int id = v.getId();
    switch (id){
      case R.id.log_button:
        goToLogActivity();
        break;
      case R.id.chart_button:
        goTolChartActivity();
        break;
      case R.id.outlines_button:
        goToOutlineActivity();
        break;
      case R.id.setting_button:
        goToSettingActivity();
        break;
      case R.id.add drink button:
        showAddDialog();
        break;
                   } }
  private void updateView(){
    int perValue= db.getConsumedPercentage();
    circleProgress.setProgress(perValue);
    choosenAmountTv.setText(String.valueOf(db.geConsumedWaterForToadyDateLog()+"
out of "+
        PrefsHelper.getWaterNeedPrefs(getApplicationContext())+" ml")); }
  private void showAddDialog() {
    AddDialog a = new AddDialog(this, db);
    a.show(); }
  private void goToSettingActivity() {
    startActivityForResult(new Intent(this, SettingsActivity.class),0); }
```

```
private void goToOutlineActivity() {
  Intent intent2 = new Intent(getApplicationContext(), OutlineActivity.class);
  startActivity(intent2); }
private void goTolChartActivity() {
  Intent intent3 = new Intent(getApplicationContext(), ChartActivity.class);
  startActivity(intent3); }
private void goToLogActivity() {
  Intent intent4 = new Intent(getApplicationContext(), DateLogActivity.class);
  startActivity(intent4); }
public void initializeViews(){
  logButton =(ImageButton)findViewById(R.id.log_button);
  chartButton =(ImageButton)findViewById(R.id.chart_button);
  settingButton =(ImageButton)findViewById(R.id.setting_button);
  outlinesButton = (ImageButton)findViewById(R.id.outlines_button);
  choosenAmountTv=(TextView) findViewById(R.id.choosen_drink_text);
  addDrinkButton = (Button) findViewById(R.id.add_drink_button);
  logButton.setOnClickListener(this);
  chartButton.setOnClickListener(this);
  settingButton.setOnClickListener(this);
  outlinesButton.setOnClickListener(this);
  addDrinkButton.setOnClickListener(this); }
private void registerUIBroadcastReceiver() {
  IntentFilter filter = new IntentFilter();
  filter.addAction("com.update.view.action");
  updateUIReciver = new BroadcastReceiver() {
     @Override
     public void onReceive(Context context, Intent intent) {
                           }
       updateView();
                                 };
  registerReceiver(updateUIReciver,filter); }}
```

# **4.1 DATA DICTIONARY**

## TIME TABLE

SR NO	Column name	Datatype	Size	Constraint
1	ID	Primary key		Int
2	WaterNeed			Int
3	Waterdrunk			Int
4	DATE			DATETIME

## **DATE TABLE**

SR NO	Column name	Datatype	Size	Constraint
1	ID	Primary key		Int
2	ContainerTy	varchar	20	
3	WaterdrunkOnce	;		Int
4	DATE			DATETIME
5	Time			DATETIME

## **USER TABLE FOR CALORIE COUNTER**

SR NO	Column name	Datatype	Size	Constraint
1	Gender	varchar		Int
2	name	Varchar	20	
3	age			Int
4	weight			Int
5	height			Int
6	stars			Int
7	result	varchar		
8	calories			DATETIME
9	dates			Int
10	daiy			Int
11	tempo			Int

# **4.2 PROGRAMMING DESCRIPTION**

SR.NO	Form Name	Description
1.	Main2Activity	This page allows user to get to login and register page
2.	Login	User can login using email address and password
3.	Register	User have to login using email ,password name and mobile no
4	BMI	User can calculate using Height and weight
5.	Data_classes	This class takes input from users for calorie counter for their food consumed and store in it database.
6	NotificationReceiver	Gives notification to drink water.
7	Footstep	Calculates footstep by implementing stepListenerInterface.
8	TimeLogActivity	Displays time log of the time when the water was dranked.
9	Chart	Displays the chart of the amount and time of water consumed.
10.	Dialog	Dialog shows dialog boxes for on completing the tack, on selection of amount of water.
11.	TimepickerFragment	For choosing time.
12.	Feedback	For sending feedback by the user.

# 4.3 <u>NAMING CONVENTIONS</u>

	D. Cl	
1.	BarChart	dayBarChart
		weekBarChart
		mothBarChart yearBarChart
2.	List <timelog></timelog>	dayValues
		weekValues
		monthValues
		yearValues;
3.	DrinkDataSource	Db

4	Context	context;
5	DrawerLayout	Drawerlayout;
6	ActionBarDrawerToggle	nToggle;
7	FragmentTransaction	fragmentTransaction
8	NavigationView	navigationView
9	MediaPlayer	mediaPlayer;
	TextView	bmi, calorie, footstep, water, suggestion signup, forgot;
10	Button	log,register, btnLogIn, otherSize, cancel, glassButton, bottleButton, setButton,setButtonInUpdateDialog,u pdateToOtherSize, cancelUpdateDialog, glassButtonInUpdateDialog, bottleButtonInUpdateDialog
11	private EditText	loginEmailId, logInpasswd, inputEmail, inputPassword,inputName,inputPassword2,mobile
12	CheckBox	showPass;
13	EditText; FirebaseAuth auth;	

14	<u>Dialog</u>	addDrinkdialog, updateDrinkDialog,
		numberpickerDialog,updateNumberPi
		ckerDialog;
15	ArrayAdapter <timelog></timelog>	adapter;

# **4.4 VALIDATIONS**

Sr.no	Controls	Name
1	Required	Email,password,mobile,name,height,
		weight,age required field
2	Verification	Done on basis of email and password
3.	Range	Height should be between 4.8 to 6.4
		Weight should be between 30 to 130
		Age should be between 1 to 100

# PROGRAM LISTING

#### **4.5 COST ESTIMATION**

#### **COCOMO Model**

Cocomo (Constructive Cost Model) is a regression model based on LOC, i.e **number of Lines of Code**. It is a procedural cost estimate model for software projects and often used as a process of reliably predicting the various parameters associated with making a project such as size, effort, cost, time and quality. It was proposed by Barry Boehm in 1970 and is based on the study of 63 projects, which make it one of the best-documented models.

The key parameters which define the quality of any software products, which are also an outcome of the Cocomo are primarily Effort & Schedule:

- **Effort:** Amount of labor that will be required to complete a task. It is measured in person-months units.
- **Schedule:** Simply means the amount of time required for the completion of the job, which is, of course, proportional to the effort put. It is measured in the units of time such as weeks, months.

Different models of Cocomo have been proposed to predict the cost estimation at different levels, based on the amount of accuracy and correctness required. All of these models can be applied to a variety of projects, whose characteristics determine the value of constant to be used in subsequent calculations. These characteristics pertaining to different system types are mentioned below.

Boehm's definition of organic, semidetached, and embedded systems:

- 1. **Organic** A software project is said to be an organic type if the team size required is adequately small, the problem is well understood and has been solved in the past and also the team members have a nominal experience regarding the problem.
- 2. Semi-detached A software project is said to be a Semi-detached type if the vital characteristics such as team-size, experience, knowledge of the various programming environment lie in between that of organic and Embedded. The projects classified as Semi-Detached are comparatively less familiar and difficult to develop compared to the organic ones and require more experience and better guidance and creativity. Eg: Compilers or different Embedded Systems can be considered of Semi-Detached type.

3. **Embedded** – A software project with requiring the highest level of complexity, creativity, and experience requirement fall under this category. Such software requires a larger team size than the other two models and also the developers need to be sufficiently experienced and creative to develop such complex models.

COST DRIVERS	VERY LOW	LOW	NOMINAL	HIGH	VERY
Product Attributes					
Required Software Reliability	0.75	0.88	1.00	1.15	1.40
Size of Application Database		0.94	1.00	1.08	1.16
Complexity of The Product	0.70	0.85	1.00	1.15	1.30
Hardware Attributes					
Runtime Performance Constraints			1.00	1.11	1.30
Memory Constraints			1.00	1.06	1.21
Volatility of the virtual ma- chine environment		0.87	1.00	1.15	1.30
Required turnabout time		0.94	1.00	1.07	1.15
Personnel attributes					

Applications experience 1.29 1.13 1.00 0.91 0.82  Software engineer capability 1.42 1.17 1.00 0.86 0.70  Virtual machine experience 1.21 1.10 1.00 0.90  Programming language experience 1.14 1.07 1.00 0.95  rience Project Attributes  Application of software engineering methods  Use of software tools 1.24 1.10 1.00 0.91 0.83						
Software engineer capability         1.42         1.17         1.00         0.86         0.70           Virtual machine experience         1.21         1.10         1.00         0.90           Programming language experience           Project Attributes           Application of software engineering methods           Use of software tools         1.24         1.10         1.00         0.91         0.82           Required development sched-         1.23         1.08         1.00         1.04         1.10	Analyst capability	1.46	1.19	1.00	0.86	0.71
Virtual machine experience         1.21         1.10         1.00         0.90           Programming language experience           Project Attributes           Application of software engineering methods           Use of software tools         1.24         1.10         1.00         0.91         0.82           Required development sched-         1.23         1.08         1.00         1.04         1.10	Applications experience	1.29	1.13	1.00	0.91	0.82
Programming language experience         1.14         1.07         1.00         0.95           Project Attributes           Application of software engineering methods         1.24         1.10         1.00         0.91         0.82           Use of software tools         1.24         1.10         1.00         0.91         0.83           Required development sched-         1.23         1.08         1.00         1.04         1.10	Software engineer capability	1.42	1.17	1.00	0.86	0.70
rience           Project Attributes           Application of software engineering methods         1.24         1.10         1.00         0.91         0.82           Use of software tools         1.24         1.10         1.00         0.91         0.83           Required development sched-         1.23         1.08         1.00         1.04         1.10	Virtual machine experience	1.21	1.10	1.00	0.90	
Application of software engineering methods  Use of software tools  Required development sched-  1.24 1.10 1.00 0.91 0.82  1.24 1.10 1.00 0.91 0.83  1.24 1.10 1.00 1.00 1.04 1.10		1.14	1.07	1.00	0.95	
neering methods  Use of software tools 1.24 1.10 1.00 0.91 0.83  Required development sched- 1.23 1.08 1.00 1.04 1.10	Project Attributes					
Required development sched- 1.23 1.08 1.00 1.04 1.10		1.24	1.10	1.00	0.91	0.82
	Use of software tools	1.24	1.10	1.00	0.91	0.83
		1.23	1.08	1.00	1.04	1.10

## **Calculations:**

	a	В	c	D
Organic	2.4	1.05	2.5	0.38
Semi-Detached	3.0	1.12	2.5	0.35
Embedded	3.6	1.20	2.5	0.35

#### Formulae:

 $Effort = a(KLOC)^b person-month$ 

 $Development = c(KLOC)^d months$ 

Average Staff Cycle = Effort/Development persons

Productivity = (KLOC/Effort) \* 1000 no. of lines of code

No. of lines of code = 5708 = 5.708KLOC

o Organic

Effort =  $2.4 * (5.078)^{1.05} = 14.94$  person-month

Development =  $2.5 * (5.078)^{0.38} = 4.5$  months

Average Staff Cycle = 3.1125 persons

Productivity = (5.708/14.94) \* 1000 = 382 no. of lines of code

o Semi- Detached

Effort = 
$$3.0 * (5.708)^{1.12} = 18.68$$
 person-month

Development = 
$$2.5 * (5.708)^{0.35} = 4.599$$
 months

Average Staff Cycle = 18.68/4.599 = 4.061 persons

Productivity = (5.708/18.68) \* 1000 = 305 no. of lines of code

o Embedded

Effort = 
$$3.6 * (5.708)^{1.20} = 29$$
 person-month

Development = 
$$2.5 * (5.708)^{0.35} = 4.59$$
 months

Average Staff Cycle = 29/4.59 = 6.31 persons

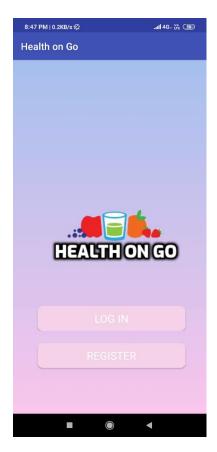
Productivity = (5.708 / 29) \* 1000 = 196no. of lines of code

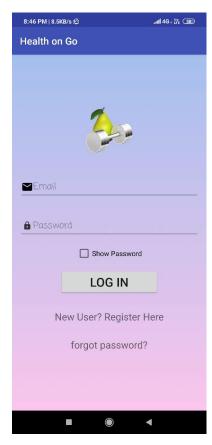
	Organic	Semi-Detached	Embedded
Effort	14.94 person-month	18.68 person-month	29 person-month
Development	4.5 months	4.599 months	4.59months
Average Staff Cycle	3.1125persons	4.061 persons	6.31 persons
Productivity	382 no. of lines of code	305 no. of lines of code	196 no. of lines of code

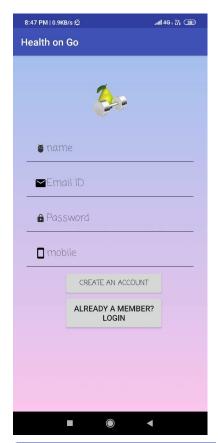
# **4.6 TEST CASES**

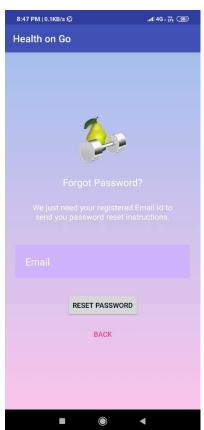
Test Conditions	Input Specified	Expected Result	Actual Result
User SignUp	Name =""	Tells the user to	Tells the user to
	Email =""	signup and register	signup and register
	Password =""	the account	the account
	Mobile =""		
User Log in	Email = ""	Tells the user to give	Tells the user to give
	Password =""	proper detail	proper detail
	Email :	If details are proper	If details are proper
	abc@gmail.com	redirect to home page	redirect to home page
	Password :123456		
Forgot Password	Username = ""	Invalid	Invalid
	Password =""		
	Email Id = ""	Sends the email and	Sends the email and
	New Password : ""	reset a new password.	reset a new password.
BMI	Height: ""	Tells the user to give	Tells the user to give
	Weight : ""	proper values	proper values

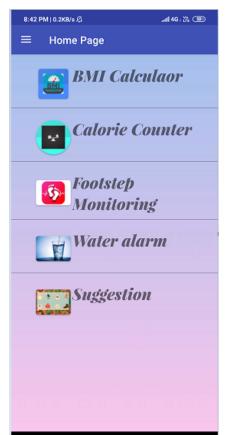
## 4.7 <u>USER MANUAL WITH SCREENSHOTS</u>

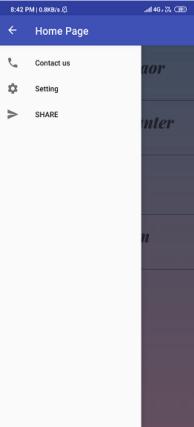






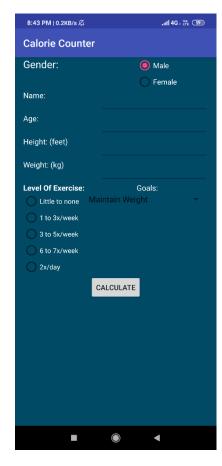




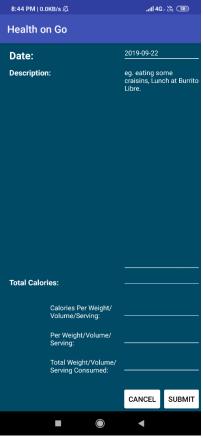


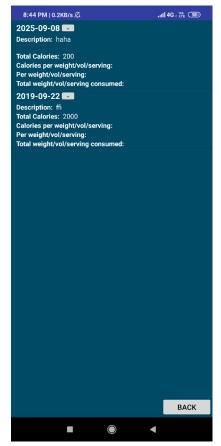


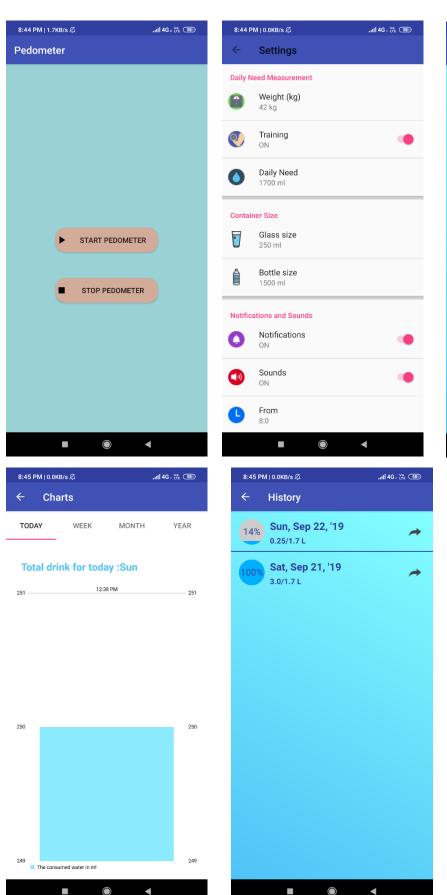




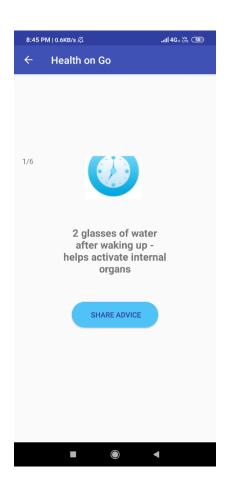












#### **FUTURE ENHANCEMENT**

Now a days where people are more concern about their health we want that this application helps them in the eaiest way.

In this application the user has to enter the details of the food items manually to count their calories in future we want to implement that the user gets the amount of calorie directly from the database.

We would like to make the app more automated so that the it is easier for users and instead of entering data manually user can get data itself.

We would like to make a goal table where user can keep track of their goal and achieve their goal.

Our app focuses on developing health, and keeping track of their health and live a health life.

### **Bibliography:**

https://developer.android.com/training/tv/playback/onboarding

 $\underline{https://stackoverflow.com/questions/28815769/android-studio-creating-landscape-layouts}$ 

https://medium.com/google-developers/controlling-data-access-using-firebase-auth-custom-claims-88b3c2c9352a

 $\underline{https://forum.xda-developers.com/tools/android-studio/unable-to-resolve-dependencies-android-t3702670}$ 

 $\underline{https://www.google.com/search?q=benefits+of+fitness+app\&oq=benefits+of+fitness+app\&a}\\ \underline{qs=chrome.0.016.7388j0j7\&sourceid=chrome\&ie=UTF-8}$ 

https://code.tutsplus.com/tutorials/image-upload-to-firebase-in-android-application--cms-29934

https://github.com/j4velin/Pedometer