**Android Studio e-Project**

Android Health Monitor

**Submitted To**

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**Project Instructor**

Sir Sallah Shakel

**group members:**

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*Maaz-ur-Rehman*

*Wahaj*

*Hassan*



# 

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# ACKNOWLEDGEMENT

***W***

*e are thankful to Almighty, ALLAH that by His grace we have been successful. we presenting on* ***Android Studio*** *in your hands. We have tried our best to take all relevant important topics in consideration so that this project may become comprehensive.*

*This is our* ***Second Year Semester E****-project. We have tried our best & struggled for a better outlook to come. This project has been developed in* ***Android Studio.*** *We choose to make Webpage for* ***Android Health Monitor*** *as a project. We find easy to do coding in* ***Android Studio.***

*We earnestly hope that this project will provide all the necessarily information required for the user to fulfill their inspiration. However suggestions for improvement of the project will be thankful received & acknowledge.*

**THANKING YOU……**

# Project Certification

*This is to certify that,*

*Youusf, Maaz, Wahaj & Hassan as successfully Designed & Developed* **"*Android Health Monitor”***

*Date of Issue:*

***22-November-2022***

*Authorized Signature:* ***Sir Sallah***

# “INTRODUCTION TO Harvic Electric”

The thirst for learning, upgrading technical skills and applying the concepts in real life environment at a fast pace is what the industry demands from IT professionals today. However busy work schedules, far-flung locations, unavailability of convenient time-slots pose as major barriers when it comes to applying the concepts into realism. And hence the need to look out for alternative means of implementation in the form of laddered approach.

The above truly pose as constraints especially for our students too! With their busy schedules, it is indeed difficult for our students to keep up with the genuine and constant need for integrated application which can be seen live especially so in the field of IT education where technology can change on the spur of a moment. *Well, technology does come to our rescue at such times!!*

Keeping the above in mind and in tune with our constant endeavour to use Technology in our training model, we at Aptech have thought of revolutionizing the way our students learn and implement the concepts using tools themselves by providing a *live and synchronous eProject learning environment!*

**REQUIREMENT SPECIFICATION:**

The main aim of developing this project is to create a health application to monitor a user’s health. This is an android based app.

The application must have a tabbed layout

a) The application shall have a signup/information collection page. Once the user creates a profile the following fields must be stored permanently and must be displayed in the “personal” tab. User must have the ability to update at any time.

Name

Age

Height

Weight

b) The second tab should contain links to common health topics. There must be a list view and each link should open in a details view. (atleast 5 different links to get information about health/diet/diseases etc.

c) The third tab should allow the user to enter his/her details about health on a daily basis.

The app must store the data day-wise and must present the trend in increase/decrease on these three levels on a weekly, monthly and yearly basis. (i.e. Average of the week, month and year). You can add the option to add a date or you can pick a date from system.

Blood pressure level

Blood sugar level

Calorie intake

d) Based on the information provided and result calculated from the third tab the fourth tab should display further information. The information should be category wise stored links to health websites.

If the BP level is not in range for week or month; then the suggestion to improve the BP levels

If the Blood sugar level is not in range for week or month, the suggestion to improve Blood sugar levels

If calorie intake is not consistent then the suggestion to normalize the calorie intake.

**HARDWARE REQUIRMENT :**

* Android mobile with a minimum version 2.2.
* The processor is not less than 500MHZ.
* RAM is not less than 2048MB.
* SD card with a minimum of 512MB.
* Resolution is not less than 480\*800pixs.

**Software Requirements :**

Use software as per your requirement

* Windows OS/JAVA/Android SDK/Notepad/SQL/Android 2.2 or Later

*DEVELOPER GUIDE :*

|  |  |  |
| --- | --- | --- |
| **No.** | **Items** | ***Description*** |
| 1 | Operating System | Windows 10 home |
| 2 | Main processor | Minimum Intel i5 10 gen or better |
| 3 | Ram (Memory) | Minimum 128 or better |
| 4 | Device | Android mobile |
| 5 | Software | Android Studio |

**System Requirement:**

*SITE MAP :*

First Page

Personal info

Daily check up

Health Topics

Checkup Result

Blood Preasure

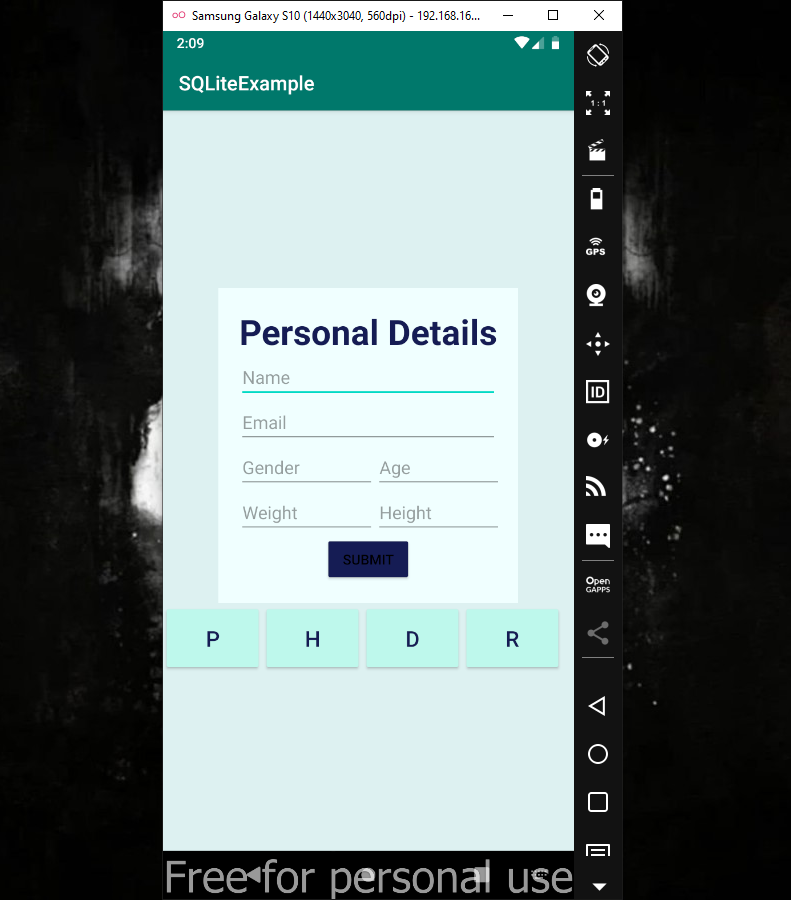
Eating disorder

Headache

Arthrits

Diabeties

**Firdt PAGE:**



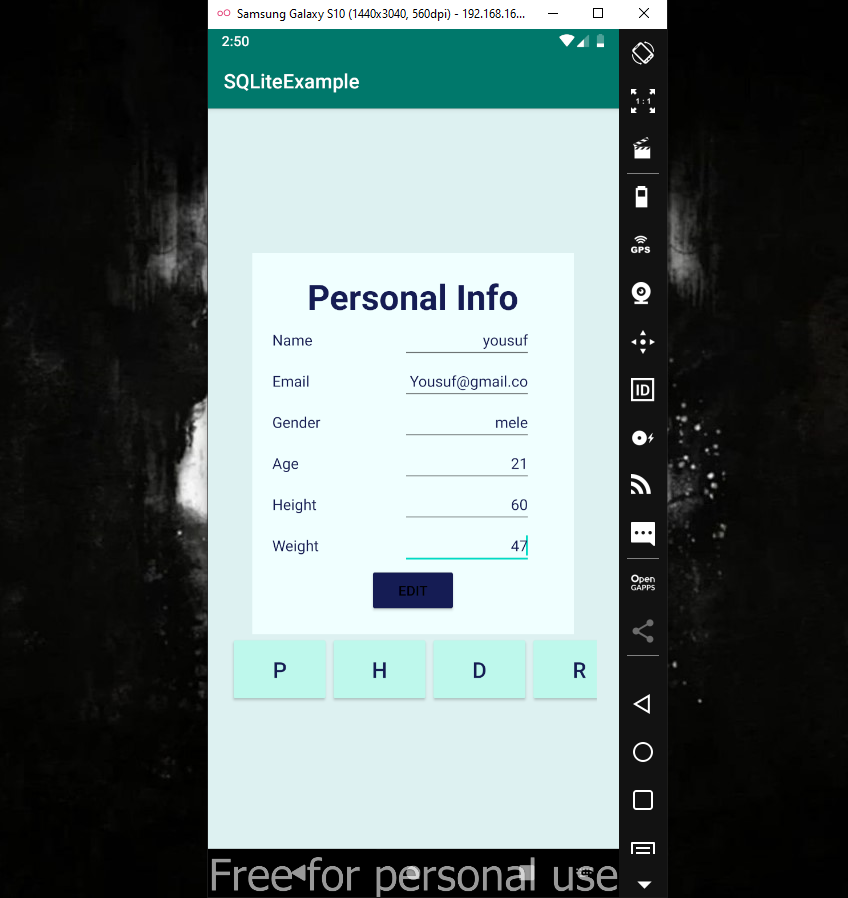
**You Can Edit Design From Here**

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**You Can Edit For Main Activity Here**

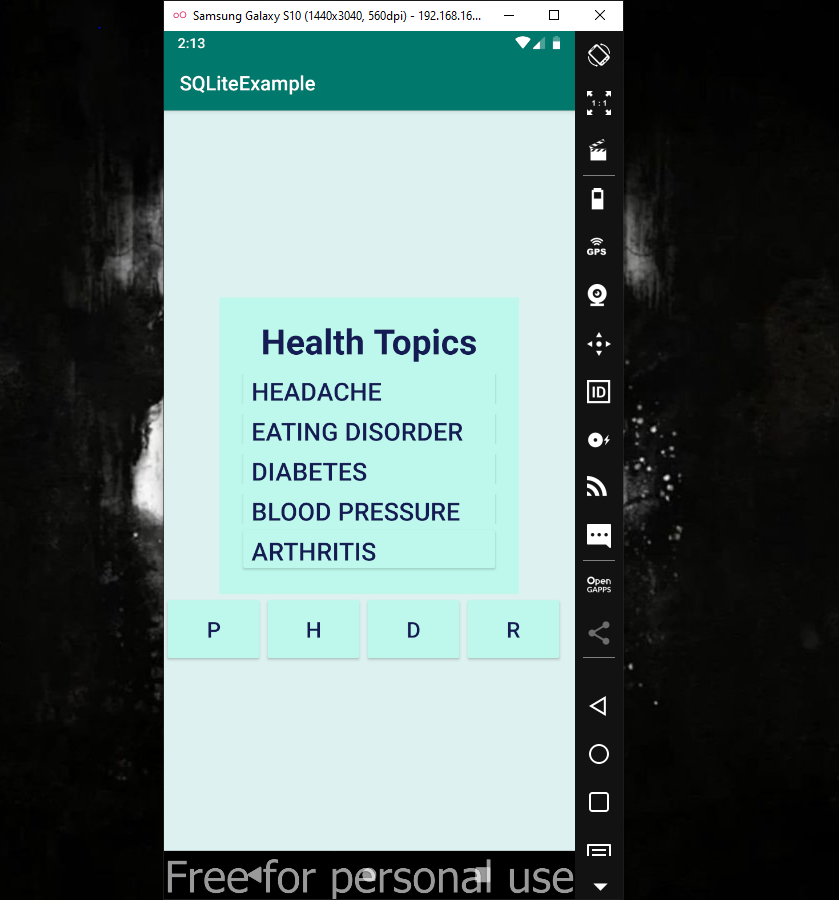
package com.example.sqliteexample;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.media.MediaSession2Service;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 EditText name,email,txt\_Gender,txt\_age,txt\_weight,txt\_height;  
  
 Button button\_btn,button\_view,button1;  
 Button nav\_btn1,nav\_btn2,nav\_btn3,nav\_btn4;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
//////////////////  
// button1 = (Button) findViewById(R.id.button1) ;  
// button1.setOnClickListener(new View.OnClickListener() {  
// @Override  
// public void onClick(View v) {  
// openheadache();  
// }  
//  
// public void openheadache() {  
// Intent intent = new Intent(this, headache.class);  
// startActivity(intent);  
// }  
// });  
 nav\_btn1 = (Button) findViewById(R.id.*nav\_btn1*) ;  
 nav\_btn1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 openHealthTopic();  
 }  
  
 public void openHealthTopic() {  
 Intent intent = new Intent(getApplicationContext(),ViewEmployeeActivity.class);  
 startActivity(intent);}  
 });  
 nav\_btn2 = (Button) findViewById(R.id.*nav\_btn2*) ;  
 nav\_btn2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 openHealthTopic();  
 }  
  
 public void openHealthTopic() {  
 Intent intent = new Intent(getApplicationContext(),Health\_Topic\_MainActivity2.class);  
 startActivity(intent); }  
 });  
 nav\_btn3 = (Button) findViewById(R.id.*nav\_btn3*) ;  
 nav\_btn3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 openHealthTopic();  
 }  
  
 public void openHealthTopic() {  
 Intent intent = new Intent(MainActivity.this,Daily\_Basis\_MainActivity2.class);  
 startActivity(intent); }  
 });  
 nav\_btn4 = (Button) findViewById(R.id.*nav\_btn4*) ;  
 nav\_btn4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 openHealthTopic();  
 }  
  
 public void openHealthTopic() {  
 Intent intent = new Intent(getApplicationContext(),ResultainActivity2.class);  
 startActivity(intent); }  
 });  
 ///////////////  
 name = findViewById(R.id.*name*);  
 email = findViewById(R.id.*email*);  
 txt\_Gender = findViewById(R.id.*txt\_Gender*);  
 txt\_age = findViewById(R.id.*txt\_age*);  
 txt\_weight = findViewById(R.id.*txt\_weight*);  
 txt\_height = findViewById(R.id.*txt\_height*);  
 button\_btn = findViewById(R.id.*button\_btn*);  
  
 button\_btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String stringName = name.getText().toString();  
 String stringEmail = email.getText().toString();  
 String stringender = txt\_Gender.getText().toString();  
 String stringAge = txt\_age.getText().toString();  
 String stringWight = txt\_weight.getText().toString();  
 String stringHeight = txt\_height.getText().toString();  
  
 if (stringName.length() <=0 || stringEmail.length() <=0|| stringender.length() <=0|| stringAge.length() <=0|| stringWight.length() <=0|| stringHeight.length() <=0){  
 Toast.*makeText*(MainActivity.this, "Enter All Data", Toast.*LENGTH\_SHORT*).show();  
 }else {  
 DatabaseHelperClass databaseHelperClass = new DatabaseHelperClass(MainActivity.this);  
 EmployeeModelClass employeeModelClass = new EmployeeModelClass(stringName,stringEmail,stringender,stringAge,stringWight,stringHeight);  
 databaseHelperClass.addEmployee(employeeModelClass);  
 Intent intent = new Intent(getApplicationContext(),ViewEmployeeActivity.class);  
 startActivity(intent);  
 }  
 }  
 });  
  
  
/\*  
 button\_view.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(MainActivity.this,ViewEmployeeActivity.class);  
 startActivity(intent);  
 }  
 });  
\*/  
  
  
 }  
  
  
}

**PERSONAL INFO PAGE:**

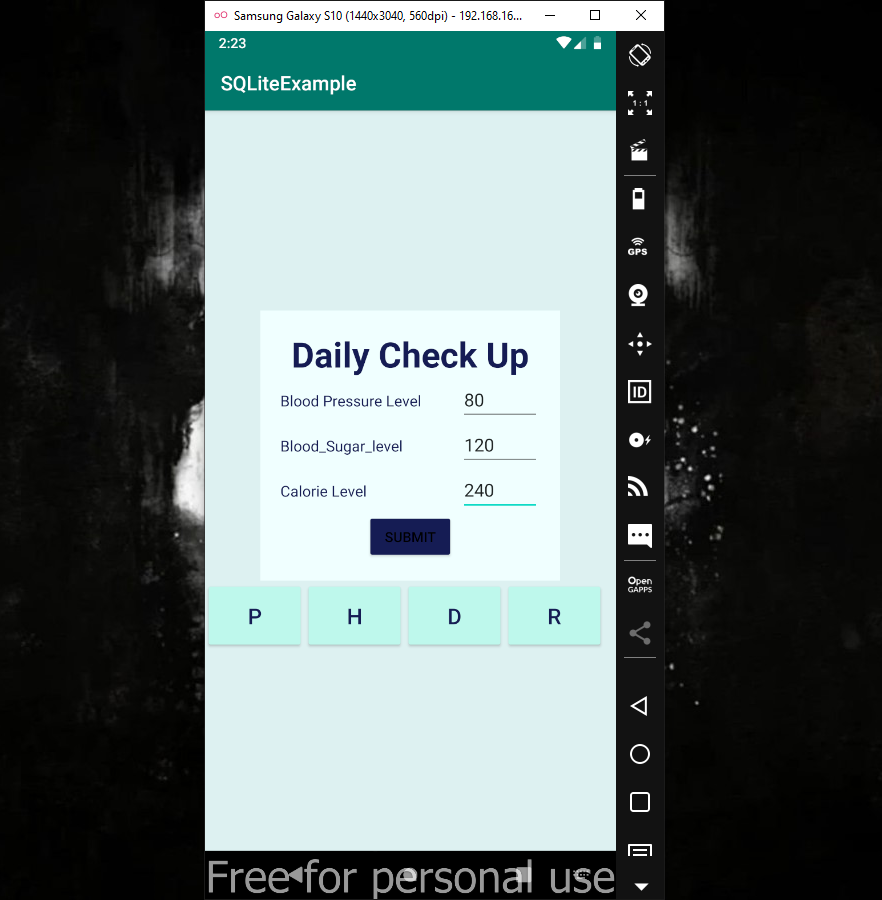


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 android:textSize="22dp" />  
  
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**HEALTH TOPIC PAGE:**



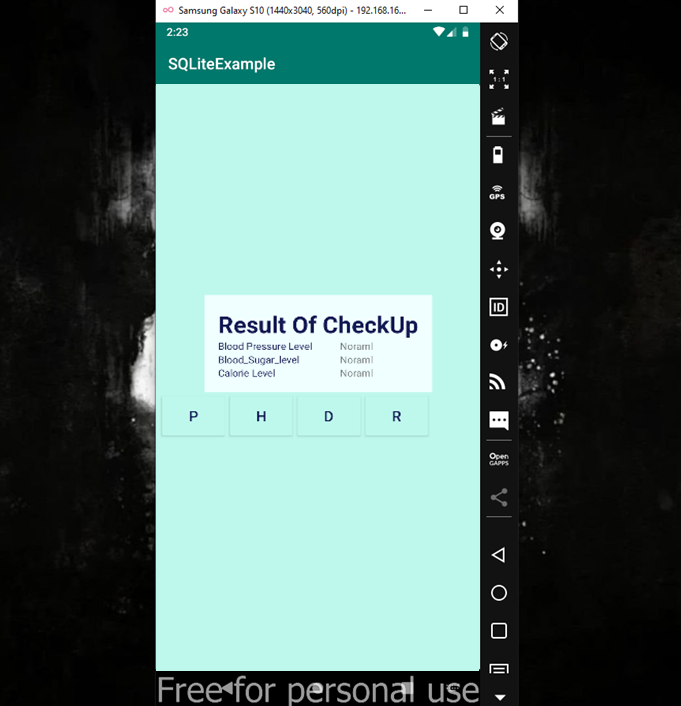
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 android:orientation="horizontal">  
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 android:layout\_gravity="center"  
 android:textColor="#151B54"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="Blood Pressure"  
 android:textSize="25dp" />  
  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button5"  
 android:gravity="left"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_alignParentBottom="true"  
 android:layout\_gravity="center"  
 android:textColor="#151B54"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="Arthritis"  
 android:textSize="25dp" />  
  
  
 </LinearLayout>  
  
  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="bottom"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/nav\_btn1"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="P"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn2"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="H"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn3"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="D"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn4"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="R"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
 </LinearLayout>  
 </LinearLayout>  
  
</androidx.constraintlayout.widget.ConstraintLayout>



**DAILY CHECKUP PAGE:**

<?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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".Daily\_Basis\_MainActivity2">  
 <LinearLayout android:background="#DDF1F1 "  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:gravity="center">  
  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:minWidth="300dp"  
 android:background="#F0FFFF"  
 android:orientation="vertical"  
 android:padding="20dp">  
  
 <TextView  
 android:id="@+id/textview"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_gravity="center"  
 android:textStyle="bold"  
 android:textColor="#151B54"  
 android:text="Daily Check Up"  
 android:textSize="35dp" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/blood\_pressure\_level\_head"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:textColor="#151B54"  
 android:text="Blood Pressure Level"  
 android:textSize="15dp" />  
 <EditText  
 android:id="@+id/blood\_pressure\_level\_value"  
 android:layout\_width="80dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"  
 />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/blood\_sugar\_head"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:textColor="#151B54"  
 android:text="Blood\_Sugar\_level"  
 android:textSize="15dp" />  
 <EditText  
 android:id="@+id/blood\_sugar\_level\_value"  
 android:layout\_width="80dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"  
 />  
 </LinearLayout>  
  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/calorie\_level\_head"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:textColor="#151B54"  
 android:text="Calorie Level"  
 android:textSize="15dp" />  
 <EditText  
 android:id="@+id/calorie\_level\_value"  
 android:layout\_width="80dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"></EditText>  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:layout\_gravity="center"  
 android:backgroundTint="#151B54"  
 android:layout\_toStartOf="@+id/textview"  
 android:layout\_toLeftOf="@+id/textview"  
 android:text="Submit" />  
  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="bottom"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/nav\_btn1"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="P"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn2"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="H"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn3"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="D"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn4"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="R"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
 </LinearLayout>  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

**RESULT CHECKUP PAGE:**



<?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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".ResultainActivity2">  
  
 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:layout\_gravity="center"  
 android:padding="22dp"  
 android:background="#FFBEF8EC"  
 android:paddingTop="40dp"  
 android:gravity="center">  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:minWidth="300dp"  
 android:background="#F0FFFF"  
 android:orientation="vertical"  
 android:padding="20dp">  
  
 <TextView  
 android:id="@+id/textview"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_gravity="center"  
 android:textStyle="bold"  
 android:textColor="#151B54"  
 android:text="Result Of CheckUp"  
 android:textSize="35dp" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/blood\_pressure\_level\_head"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:textColor="#151B54"  
 android:text="Blood Pressure Level"  
 android:textSize="15dp" />  
 <TextView  
 android:id="@+id/blood\_pressure\_level\_value"  
 android:layout\_width="80dp"  
 android:layout\_height="wrap\_content"  
 android:text="Noraml"  
 android:textSize="15dp"  
 />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/blood\_sugar\_head"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:textColor="#151B54"  
 android:text="Blood\_Sugar\_level"  
 android:textSize="15dp" />  
 <TextView  
 android:id="@+id/blood\_sugar\_level\_value"  
 android:layout\_width="80dp"  
 android:layout\_height="wrap\_content"  
 android:text="Noraml"  
 android:textSize="15dp"  
 />  
 </LinearLayout>  
  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/calorie\_level\_head"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:textColor="#151B54"  
 android:text="Calorie Level"  
 android:textSize="15dp" />  
 <TextView  
 android:id="@+id/calorie\_level\_value"  
 android:layout\_width="80dp"  
 android:layout\_height="wrap\_content"  
 android:text="Noraml"  
 android:textSize="15dp"></TextView>  
 </LinearLayout>  
  
  
  
  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="bottom"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/nav\_btn1"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="P"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn2"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="H"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn3"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="D"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
  
 <Button  
 android:id="@+id/nav\_btn4"  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:backgroundTint="#FFBEF8EC"  
 android:text="R"  
 android:textColor="#151B54"  
 android:textSize="22dp" />  
 </LinearLayout>  
 </LinearLayout>  
  
</androidx.constraintlayout.widget.ConstraintLayout>