Health_h@ck

This application has been made as a part of our training program at Globsyn Finishing School Winter Training 2015. This is a user interactive app that allows the user to have a health checkup by themselves based on their physical exercise (walking, jogging, running , etc.) . This has been build as a stepping stone towards developing an application for total self health checkup which can contribute a major part to the medical field.

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Table of Contents :

Acknowledgement

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We express our gratitude to all, who have provided us with their guidance, support and encouragement.

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Project Objective:

- **Making valuable information Open Source** :
  Health_h@ck targets a massive group of people i.e. not only users but reasearchers as well , by providing scope of huge data collection , storage and exchange .

- Health_h@ck allows the user to measure calories burnt per day based on the amount of physical exercise(walking, jogging, running , etc.) performed by him/her.

- Health_h@ck keeps a track (record) of calories burnt over a period of time for future reference.

- User controlled start and stop operations to ensure exact tracking of physical exercise.

- Past records can be easily viewed by simple button click action.

Project Scope:

- Self health assessment anywhere anytime .
- Keeping a track of past assessments.
- No additional device required.
- Makes data available to everyone including researchers helping them with huge amount of data from a large customer base spread over diverse geographical areas. Analysis of this huge data will help in creating prediction models which can help in diagnosing health problems.

Requirement Specification :

Client Side:

- Software requirements

  - ✓ Android operating system
  - ✓ Android version 4.1(Jelly bean) api level 16 to 7.0 (Nougat) api level 24

- Hardware requirements

  - ✓ Android operating system enabled smartphone
  - ✓ Minimum 32MB RAM
  - ✓ Minimum 200 MHz Processor
  - ✓ Minimum 32 Mb of memory space
  - ✓ Acclerometer sensor in android mobile

Developer Side:

- Software used

  - ✓ Windows 10
  - ✓ Android version 1.0

- Hardware used

  - ✓ 8GB RAM
  - ✓ Quad core processor

Database Design :

TABLE 1

ID	NAME	PASSWORD	AGE	SEX	HEIGHT	WEIGHT	PHONE	EMAIL

TABLE 2

DATE	CALORIES BURNT

Application Workflow:

- The opening screen of Health_h@ck provides option for signing in to an existing account or signing up to create a new account

- The main screen of the App opens up once a user signs in or creates his new account.

- The main screen shows the calories burnt during a physical exercise.

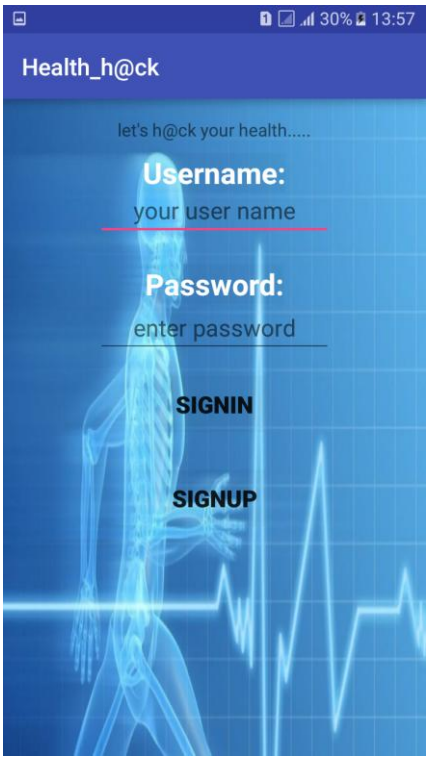
- There are three buttons on the main screen as follows

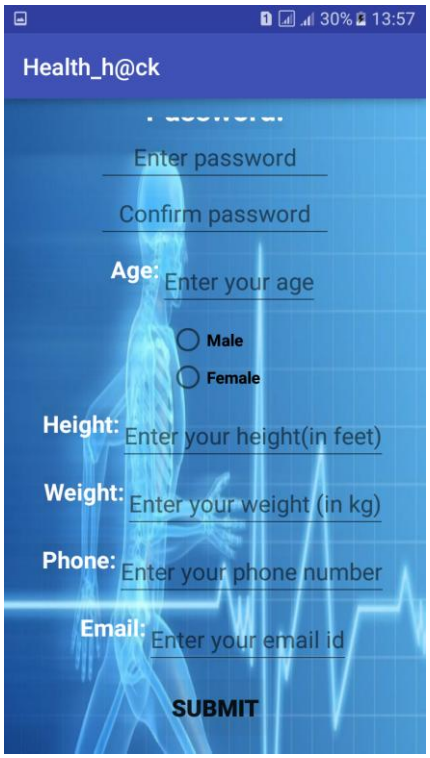
  - ✓ START EXERCISE – When clicked the app starts calculating and displaying the calories burnt.

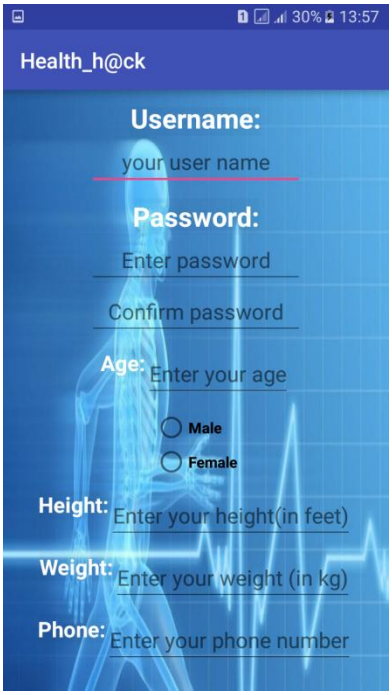
  - ✓ STOP EXERCISE – When clicked the app stops calculating calories burnt and the screen is redirected to the first screen of the app.

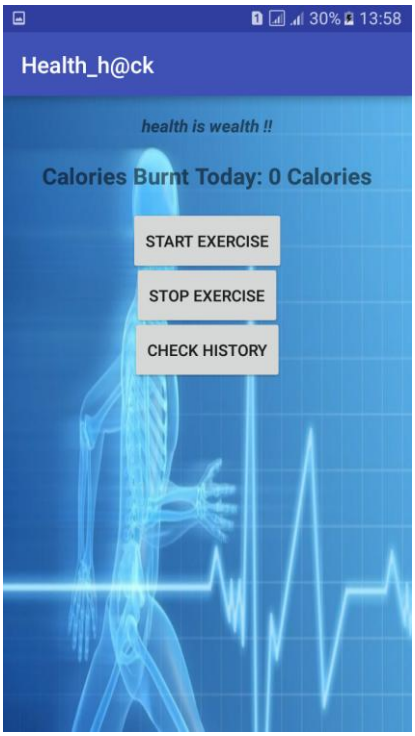
  - ✓ CHECK HISTORY – When clicked the past records of calories burnt are displayed on the screen.

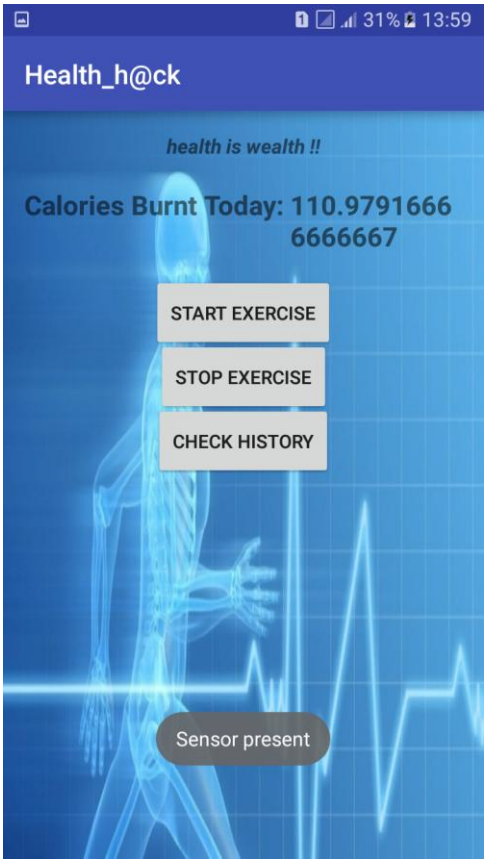
Screenshots

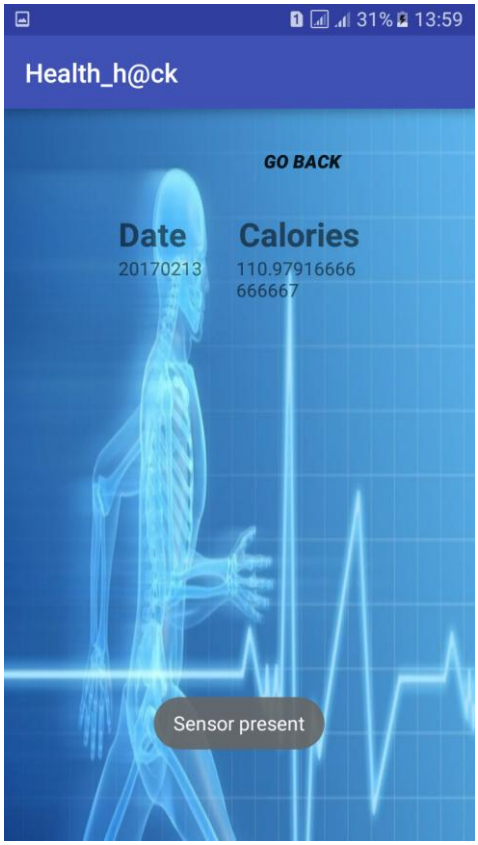









31% 13:59
Health_h@ck
health is wealth !!
Calories Burnt Today: 110.9791666
6666667
START EXERCISE
STOP EXERCISE
CHECK HISTORY
Sensor present


31% 13:59
Health_h@ck
GO BACK
Date
Calories
20170213
110.97916666
666667
Sensor present

Future Scope Of Improvements :

- Development of a complete personal health checker app by adding additional attributes

- Get various values from exercise alongwith calories burnt (such as oxygen consumption, BMR , pulse rate , etc.)

- Collect and store data for studying health over a period of time which can lead to health related predictions based on medical calculations & research (such as predicting the probability of a possible heart attack in a span of 5 years or so).

- Diagnose health problems using data received

MainActivity.java:

```
package com.health_hack.www.healthhack;

import android.content.Context;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.hardware.Sensor;
import android.hardware.SensorEvent;
import android.hardware.SensorEventListener;
import android.hardware.SensorManager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

import java.io.Serializable;
import java.util.Calendar;
import java.util.GregorianCalendar;

public class MainActivity extends AppCompatActivity implements
SensorEventListener {

    private SensorManager sensorManager;
    private Sensor sensor;
    private boolean isSensorPresent = false;
    private int level3 = 0;//measures time of vigourous exercise
    private int level2 = 0;//measures time of normal exercise
    private int level1 = 0;//measures time of very low calorie burn
    private int date_temp;
    private double calories_burnt=0.0;
    private double total_claories_burnt=0.0;
    private double weight;
    Context context;
    MySQLiteAdapter mySQLiteAdapter;
    MySQLiteAdapterSign mySQLiteAdapterSign;
    TextView tv1;

    @Override
```

```
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_third_page);
      level1 = level2 = level3 =0;
      Toast.makeText(getApplicationContext(),"OnCreate
Created..",Toast.LENGTH_SHORT).show();
      sensorManager = (SensorManager)
getSystemService(Context.SENSOR_SERVICE);
      if
(sensorManager.getDefaultSensor(Sensor.TYPE_ACCELEROMETER) !=
null){
         sensor =
sensorManager.getDefaultSensor(Sensor.TYPE_ACCELEROMETER);
         isSensorPresent = true;
         Toast.makeText(getApplicationContext(),"Sensor
present",Toast.LENGTH_LONG).show();
      }
      else {
         isSensorPresent = false;
         Toast.makeText(getApplicationContext(),"Sensor
absent",Toast.LENGTH_LONG).show();
      }

      GregorianCalendar gcalendar = new GregorianCalendar();
      int dt = gcalendar.get(Calendar.DATE);
      int mn = gcalendar.get(Calendar.MONTH)+1;
      int yr = gcalendar.get(Calendar.YEAR);
      date_temp = 100*(100*yr+mn)+dt;
      context = this;

      tv1 = (TextView) findViewById(R.id.calo);

      mySQLiteAdapter=new MySQLiteAdapter(context);
      SQLiteDatabase
db=mySQLiteAdapter.mySQLiteOpenHelper.getWritableDatabase();

      mySQLiteAdapterSign = new MySQLiteAdapterSign(this);
      SQLiteDatabase db1 =
mySQLiteAdapterSign.mySQLiteOpenHelperSign.getWritableDatabase();
      String[] search=mySQLiteAdapterSign.DisplayAllRecord().split("\n");
```

```
        String[] search1=search[search.length-1].split(" ");
        weight=Double.valueOf(search1[6]);

        String
searchrecords=mySQLiteAdapter.SearchOneArgRecord(date_temp);

        if (searchrecords.isEmpty()) {
            tv1.setText("0 Calories");
            MyToastMessage.myMessage(context, "No record found...");
        } else {
            double cal = getCalories(searchrecords.split("\n")[0]);
            total_claories_burnt=cal;
            tv1.setText(String.valueOf(cal));
            //MyToastMessage.myMessage(context, searchrecords);

//Toast.makeText(getApplicationContext(),searchrecords,Toast.LENGTH
_LONG).show();
        }

        //Toast.makeText(getApplicationContext(),"Pinaki:
"+String.valueOf(weight),Toast.LENGTH_LONG).show();
    }


    @Override
    public void onSensorChanged(SensorEvent event) {
        if (event.values[0] > 10.0 && event.values[0]<15.0 ) {
            level1++;
            try {
                Thread.sleep(500);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            //Toast.makeText(getApplicationContext(),"Steps detected of
type:1..",Toast.LENGTH_SHORT).show();
        }

        else if (event.values[0] > 15.0 && event.values[0]<20.0 ) {
            level2++;
            try {
```

```
            Thread.sleep(500);
          } catch (InterruptedException e) {
            e.printStackTrace();
          }
          //Toast.makeText(getApplicationContext(),"Steps detected of
type:2..",Toast.LENGTH_SHORT).show();
        }

        else if (event.values[0] > 20.0 && event.values[0]<25.0 ) {
          level3++;
          try {
            Thread.sleep(500);
          } catch (InterruptedException e) {
            e.printStackTrace();
          }
          //Toast.makeText(getApplicationContext(),"Steps detected of
type:3..",Toast.LENGTH_SHORT).show();
        }

        calories_burnt = 0.175*(7.0*level1 + 12.0*level2 +
13.0*level3)*weight/60.0;
        tv1.setText(String.valueOf(calories_burnt+total_claories_burnt)+"
Calories");

//Toast.makeText(getApplicationContext(),String.valueOf(mySQLiteAdap
terSign.Weight),Toast.LENGTH_SHORT).show();

    }

    @Override
    public void onAccuracyChanged(Sensor sensor, int accuracy) {

    }

    public void start_exercise(View view) {

sensorManager.registerListener(this,sensor,SensorManager.SENSOR_DE
LAY_FASTEST);
        Toast.makeText(getApplicationContext(),"Sensor
Started..",Toast.LENGTH_SHORT).show();
```

```
    }

    public int getDate(String str){
        return Integer.valueOf(str.split(" ")[0]);

    }

    public double getCalories(String str) {
        return Double.valueOf(str.split(" ")[1]);
    }


    public void stop_exercise(View view) {
        sensorManager.unregisterListener(this);
        Toast.makeText(getApplicationContext(),"Sensor
Stopped..",Toast.LENGTH_SHORT).show();
        level1 = level1/2;
        level2 = level2/2;
        level3 = level3/2;

        calories_burnt = calories_burnt + 0.175*(7.0*level1 + 12.0*level2 +
13.0*level3)*weight/60.0;//change weight later

Toast.makeText(getApplicationContext(),String.valueOf(calories_burnt),
Toast.LENGTH_LONG).show();
        String
searchrecords=mySQLiteAdapter.SearchOneArgRecord(date_temp);

        if (searchrecords.isEmpty()) {
            mySQLiteAdapter.InsertRecord(date_temp,calories_burnt);
            MyToastMessage.myMessage(context, "value updated...");
        } else {

//            String arr = searchrecords.split("\n")[0];
//            int dt = Integer.valueOf(arr.split(" ")[0]);
//            double cal = Double.valueOf(arr.split(" ")[1]);
            int dt = getDate(searchrecords.split("\n")[0]);
            double cal = getCalories(searchrecords.split("\n")[0]);

            mySQLiteAdapter.UpdateVoidArgRecord(dt,cal+(calories_burnt));
```

```
            MyToastMessage.myMessage(context, "value entered");
        }
        finish();
    }

//    @Override
//    protected void onDestroy() {
//        super.onDestroy();
//        sensorManager.unregisterListener(this);
//        Toast.makeText(getApplicationContext(),"Job
Ended..",Toast.LENGTH_SHORT).show();
//        level1 = level1/2;
//        level2 = level2/2;
//        level3 = level3/2;
//
//        double calories_burnt = 0.175*(7.0*level1 + 12.0*level2 +
13.0*level3)*50.0/60.0;//change weight later
//
//        String
searchrecords=mySQLiteAdapter.SearchOneArgRecord(date_temp);
//
//        if (searchrecords.isEmpty()) {
//            mySQLiteAdapter.InsertRecord(date_temp,calories_burnt);
//            MyToastMessage.myMessage(context, "value updated...");
//        } else {
//
//            String arr = searchrecords.split("\n")[0];
//            int dt = Integer.valueOf(arr.split(" ")[0]);
//            double cal = Double.valueOf(arr.split(" ")[1]);
//
//
mySQLiteAdapter.UpdateVoidArgRecord(dt,cal+(calories_burnt));
//
//            MyToastMessage.myMessage(context, "value entered");
//        }
//    }

    public void check_history(View view) {
        Intent intent = new Intent(this,History_Data.class);
```

```
//      intent.putExtra("database",mySQLiteAdapter);

      Toast.makeText(getApplicationContext(),"Going to new
page..",Toast.LENGTH_SHORT).show();
      startActivity(intent);
   }
}
```

History_Data.java:

```
package com.health_hack.www.healthhack;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;

public class History_Data extends AppCompatActivity {

   private MySQLiteAdapter mySQLiteAdapter;

   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_history__data);
//      Intent i = getIntent();
//      mySQLiteAdapter = (MySQLiteAdapter)
i.getSerializableExtra("database");
//      SQLiteDatabase
db=mySQLiteAdapter.mySQLiteOpenHelper.getWritableDatabase();
      mySQLiteAdapter=new MySQLiteAdapter(this);
      SQLiteDatabase
db=mySQLiteAdapter.mySQLiteOpenHelper.getWritableDatabase();
      Toast.makeText(getApplicationContext(),"History
called..",Toast.LENGTH_SHORT).show();
      display();
```

```
    }

    public void display(){
        String temp = mySQLiteAdapter.DisplayAllRecord();
        if (!temp.isEmpty()) {
            Toast.makeText(getApplicationContext(), temp,
Toast.LENGTH_LONG).show();
            String[] inp = temp.split("\n");
            LinearLayout lv = (LinearLayout) findViewById(R.id.history);

            for (String str : inp) {
                int dt = getDate(str);
                double cal = getCalories(str);
//
                LinearLayout lh = new LinearLayout(this);
                TextView tv1 = new TextView(this);
                tv1.setText(String.valueOf(dt) + "\t\t\t");
                lh.addView(tv1);
                //lv.addView(tv1);
                TextView tv2 = new TextView(this);
                tv2.setText(String.valueOf(cal));
                lh.addView(tv2);
                if (lv != null) {
                    lv.addView(lh);
                }
            }
        }
        else
            Toast.makeText(getApplicationContext(),"No data
present..",Toast.LENGTH_LONG).show();
    }

    private int getDate(String str){
        return Integer.valueOf(str.split(" ")[0]);

    }

    private double getCalories(String str) {
        return Double.valueOf(str.split(" ")[1]);
    }
```

```
    public void go_back(View view) {
        Toast.makeText(getApplicationContext(),"Going
back..",Toast.LENGTH_LONG).show();
        finish();
    }
}
```

MySQLiteAdapter.java:

```
package com.health_hack.www.healthhack;
/**
 * Created by HP on 10-Feb-17.
 */
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

import java.io.Serializable;

/**
 * Created by HOME on 03-Feb-2017.
 */
public class MySQLiteAdapter {
    Context context;
    MySQLiteOpenHelper mySQLiteOpenHelper;

    public MySQLiteAdapter(Context context){
        this.context=context;
        mySQLiteOpenHelper=new MySQLiteOpenHelper(context);
    }

    public long InsertRecord(int date, double calories) {
        //insert into emp_table(Emp_Name,Emp_Password)
values('amit','amit123');
        SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
```

```
        ContentValues contentValues=new ContentValues();
        contentValues.put(MySQLiteOpenHelper.DATE, date);
        contentValues.put(MySQLiteOpenHelper.CALORIES, calories);
        long id=db.insert(MySQLiteOpenHelper.TABLE_NAME, null,
contentValues);
        return id;
    }

    public String DisplayAllRecord() {
        //select _id,Emp_Name,Emp_Password from emp_table;
        SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
        String[]
columns={MySQLiteOpenHelper.DATE,MySQLiteOpenHelper.CALORIES};
        Cursor cursor=db.query(MySQLiteOpenHelper.TABLE_NAME,
columns, null, null, null, null, null);
        StringBuffer buffer=new StringBuffer();
        while(cursor.moveToNext()) {
            int index1=cursor.getColumnIndex(MySQLiteOpenHelper.DATE);
            int
index2=cursor.getColumnIndex(MySQLiteOpenHelper.CALORIES);
            int date=cursor.getInt(index1);
            double calories=cursor.getDouble(index2);
            buffer.append(String.valueOf(date)+"
"+String.valueOf(calories)+"\n");
        }
        return buffer.toString();
    }

    public String SearchOneArgRecord(int date) {
        //select _id,Emp_Name,Emp_Password from emp_table where
Emp_Name='amit' and Emp_Password='abc123';
        SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
        String[]
columns={MySQLiteOpenHelper.DATE,MySQLiteOpenHelper.CALORIES};
        Cursor cursor=db.query(MySQLiteOpenHelper.TABLE_NAME,
columns, MySQLiteOpenHelper.DATE+" = '"+date+"'", null, null, null,
null);
        StringBuffer buffer=new StringBuffer();
        while(cursor.moveToNext()) {
            int index1=cursor.getColumnIndex(MySQLiteOpenHelper.DATE);
```

```
            int
index2=cursor.getColumnIndex(MySQLiteOpenHelper.CALORIES);
            int dt=cursor.getInt(index1);
            double cal=cursor.getDouble(index2);
            buffer.append(String.valueOf(dt)+" "+String.valueOf(cal)+"\n");
        }
        return buffer.toString();
    }

//    public int DeleteOneArgRecord(String usrname) {
//        //delete from emp_table where Emp_Name='amit'
//        SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
//        int count=db.delete(MySQLiteOpenHelper.TABLE_NAME,
MySQLiteOpenHelper.NAME+" = '"+usrname+"'", null);
//        return count;
//    }

    public int DeleteVoidArgRecord(int date) {
        ////delete from emp_table where Emp_Name=?
        SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
        String[] arguments={String.valueOf(date)};
        int count=db.delete(MySQLiteOpenHelper.TABLE_NAME,
MySQLiteOpenHelper.DATE+" = ? ", arguments);

        return count;
    }

//    public String SearchVoidArgRecord(String usrname,String
usrpassword) {
//        //select _id,Emp_Name,Emp_Password from emp_table where
Emp_Name='amit';
//        SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
//        String[]
columns={MySQLiteOpenHelper.UID,MySQLiteOpenHelper.NAME,MySQ
LiteOpenHelper.PASSWORD};
//        String[] selectionArgs={usrname,usrpassword};
//        Cursor cursor=db.query(MySQLiteOpenHelper.TABLE_NAME,
columns, MySQLiteOpenHelper.NAME+" = ? and
"+MySQLiteOpenHelper.PASSWORD + "= ?"
//                , selectionArgs, null, null, null);
```

```
//      StringBuffer buffer=new StringBuffer();
//      while(cursor.moveToNext()) {
//         int index1=cursor.getColumnIndex(MySQLiteOpenHelper.UID);
//         int
index2=cursor.getColumnIndex(MySQLiteOpenHelper.NAME);
//         int
index3=cursor.getColumnIndex(MySQLiteOpenHelper.PASSWORD);
//         int cid=cursor.getInt(index1);
//         String name=cursor.getString(index2);
//         String password=cursor.getString(index3);
//         buffer.append(cid+" "+name+" "+password+"\n");
//      }
//      return buffer.toString();
//   }

//   public int UpdateOneArgRecord(String usrname,String
newpassword) {
//      //update emp_table set Emp_Password='amit123456' where
Emp_Name='amit'
//      MyToastMessage.myMessage(context, "Executing
UpdateOneArgRecord");
//      SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
//      ContentValues contentValues=new ContentValues();
//      contentValues.put(MySQLiteOpenHelper.PASSWORD,
newpassword);
//      int count=db.update(MySQLiteOpenHelper.TABLE_NAME,
contentValues, MySQLiteOpenHelper.NAME+" = '"+usrname+"'" , null);
//
//      return count;
//   }
//
   public int UpdateVoidArgRecord(int date,double calories) {
      //update emp_table set Emp_Password=? where Emp_Name=?
      MyToastMessage.myMessage(context, "Executing
UpdateVoidArgRecord");
      SQLiteDatabase db=mySQLiteOpenHelper.getWritableDatabase();
      ContentValues contentValues=new ContentValues();
      contentValues.put(MySQLiteOpenHelper.CALORIES, calories);
      contentValues.put(MySQLiteOpenHelper.DATE,date);
      String[] arguments={String.valueOf(date)};
```

```
        int count=db.update(MySQLiteOpenHelper.TABLE_NAME,
contentValues, MySQLiteOpenHelper.DATE+" = ? ", arguments);

        return count;
    }



    public class MySQLiteOpenHelper extends SQLiteOpenHelper {
        private static final String DATABASE_NAME = "health.db";
        private static final String TABLE_NAME = "daily_register";
        private static final int DATABASE_VERSION = 2;
        //private static final String UID = "_id";
        //private static final String NAME = "Emp_Name";
        //private static final String PASSWORD = "Emp_Password";

        private static final String DATE = "_date";
        private static final String CALORIES = "_calories";

        //                  private static final String AGE="Emp_Age";
        //                  private static final String CREATE_TABLE="CREATE
TABLE "+TABLE_NAME+" ("+UID+" INTEGER PRIMARY KEY
AUTOINCREMENT,"+NAME+" VARCHAR(255),"+PASSWORD+"
VARCHAR(255),"+AGE+" INTEGER);";
        //private static final String CREATE_TABLE = "CREATE TABLE " +
TABLE_NAME + " (" + DATE + " INTEGER PRIMARY KEY
AUTOINCREMENT," + CALORIES +
        //       " VARCHAR(255)," + PASSWORD + " VARCHAR(255));";

        private static final  String CREATE_TABLE = "CREATE TABLE
"+TABLE_NAME+" ("+DATE+" INTEGER PRIMARY KEY,"+CALORIES+"
DOUBLE);";
        private static final String DROP_TABLE = "DROP TABLE IF EXISTS " +
TABLE_NAME + ";";
        private Context context;

        public MySQLiteOpenHelper(Context context) {
            super(context, DATABASE_NAME, null, DATABASE_VERSION);
            this.context = context;
```

```
            MyToastMessage.myMessage(context, "Constructor called...");
        }

        @Override
        public void onCreate(SQLiteDatabase db) {
            try {
                MyToastMessage.myMessage(context, "onCreate called...");
                db.execSQL(CREATE_TABLE);
            } catch (Exception e) {
                //e.printStackTrace();
                MyToastMessage.myMessage(context, "" + e);
            }
        }

        @Override
        public void onUpgrade(SQLiteDatabase db, int oldVersion, int
    newdVersion) {
            try {
                MyToastMessage.myMessage(context, "onUpgrade called...");
                db.execSQL(DROP_TABLE);
                onCreate(db);
            } catch (Exception e) {
                //e.printStackTrace();
                MyToastMessage.myMessage(context, "" + e);
                Log.d("TEST", "" + e);
            }
        }
    }
}
```

MySQLiteAdapterSign.java:

```
package com.health_hack.www.healthhack;


import android.content.ContentValues;
```

```
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

/**
 * Created by HOME on 03-Feb-2017.
 */

public class MySQLiteAdapterSign {
    Context context;
    MySQLiteOpenHelperSign mySQLiteOpenHelperSign;
    public static double Weight;
    public MySQLiteAdapterSign(Context context){
        this.context=context;
        mySQLiteOpenHelperSign=new MySQLiteOpenHelperSign(context);
    }

    public long InsertRecord(String name, String password, String age, String sex,
String height, String weight, String phone, String email) {
        //insert into emp_table(Emp_Name,Emp_Password)
values('amit','amit123');
        SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();
```

```
        ContentValues contentValues=new ContentValues();
        contentValues.put(mySQLiteOpenHelperSign.NAME, name);
        contentValues.put(mySQLiteOpenHelperSign.PASSWORD, password);
        contentValues.put(mySQLiteOpenHelperSign.AGE, age);
        contentValues.put(mySQLiteOpenHelperSign.SEX, sex);
        contentValues.put(mySQLiteOpenHelperSign.HEIGHT, height);
        contentValues.put(mySQLiteOpenHelperSign.WEIGHT, weight);
        contentValues.put(mySQLiteOpenHelperSign.PHONE, phone);
        contentValues.put(mySQLiteOpenHelperSign.EMAIL, email);
        long id=db.insert(mySQLiteOpenHelperSign.TABLE_NAME, null,
contentValues);
        //Weight=Double.valueOf(weight);
        return id;
    }

    public String DisplayAllRecord() {
        //select _id,Emp_Name,Emp_Password from emp_table;
        SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();
        String[]
columns={MySQLiteOpenHelperSign.UID,MySQLiteOpenHelperSign.NAME,MyS
QLiteOpenHelperSign.PASSWORD,

MySQLiteOpenHelperSign.AGE,MySQLiteOpenHelperSign.SEX,MySQLiteOpenH
elperSign.HEIGHT,MySQLiteOpenHelperSign.WEIGHT,
                MySQLiteOpenHelperSign.PHONE, MySQLiteOpenHelperSign.EMAIL};
```

```
Cursor cursor=db.query(MySQLiteOpenHelperSign.TABLE_NAME,
columns, null, null, null, null, null);
StringBuffer buffer=new StringBuffer();
while(cursor.moveToNext()) {
   int index1=cursor.getColumnIndex(MySQLiteOpenHelperSign.UID);
   int index2=cursor.getColumnIndex(MySQLiteOpenHelperSign.NAME);
   int
index3=cursor.getColumnIndex(MySQLiteOpenHelperSign.PASSWORD);
   int index4=cursor.getColumnIndex(MySQLiteOpenHelperSign.AGE);
   int index5=cursor.getColumnIndex(MySQLiteOpenHelperSign.SEX);
   int index6=cursor.getColumnIndex(MySQLiteOpenHelperSign.HEIGHT);
   int index7=cursor.getColumnIndex(MySQLiteOpenHelperSign.WEIGHT);
   int index8=cursor.getColumnIndex(MySQLiteOpenHelperSign.PHONE);
   int index9=cursor.getColumnIndex(MySQLiteOpenHelperSign.EMAIL);
   int cid=cursor.getInt(index1);
   String name=cursor.getString(index2);
   String password=cursor.getString(index3);
   String age=cursor.getString(index4);
   String sex=cursor.getString(index5);
   String height=cursor.getString(index6);
   String weight=cursor.getString(index7);
   String phone=cursor.getString(index8);
   String email=cursor.getString(index9);
```

```
        buffer.append(cid+" "+name+" "+password+" "+age+" "+sex+"
"+height+" "+weight+" "+phone+" "+email+"\n");
      }
      return buffer.toString();
   }

   public String SearchOneArgRecord(String usrname) {
      //select _id,Emp_Name,Emp_Password from emp_table where
Emp_Name='amit' and Emp_Password='abc123';
      SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();
      String[]
columns={MySQLiteOpenHelperSign.UID,MySQLiteOpenHelperSign.NAME,MyS
QLiteOpenHelperSign.PASSWORD,

MySQLiteOpenHelperSign.AGE,MySQLiteOpenHelperSign.SEX,MySQLiteOpenH
elperSign.HEIGHT,MySQLiteOpenHelperSign.WEIGHT,
            MySQLiteOpenHelperSign.PHONE, MySQLiteOpenHelperSign.EMAIL};
      Cursor cursor=db.query(MySQLiteOpenHelperSign.TABLE_NAME,
columns, MySQLiteOpenHelperSign.NAME+" = '"+usrname+"'", null, null, null,
null);
      StringBuffer buffer=new StringBuffer();
      while(cursor.moveToNext()) {
         int index1=cursor.getColumnIndex(MySQLiteOpenHelperSign.UID);
         int index2=cursor.getColumnIndex(MySQLiteOpenHelperSign.NAME);
         int
index3=cursor.getColumnIndex(MySQLiteOpenHelperSign.PASSWORD);
```

```
        int index4=cursor.getColumnIndex(MySQLiteOpenHelperSign.AGE);
        int index5=cursor.getColumnIndex(MySQLiteOpenHelperSign.SEX);
        int index6=cursor.getColumnIndex(MySQLiteOpenHelperSign.HEIGHT);
        int index7=cursor.getColumnIndex(MySQLiteOpenHelperSign.WEIGHT);
        int index8=cursor.getColumnIndex(MySQLiteOpenHelperSign.PHONE);
        int index9=cursor.getColumnIndex(MySQLiteOpenHelperSign.EMAIL);
        int cid=cursor.getInt(index1);
        String name=cursor.getString(index2);
        String password=cursor.getString(index3);
        String age=cursor.getString(index4);
        String sex=cursor.getString(index5);
        String height=cursor.getString(index6);
        String weight=cursor.getString(index7);
        String phone=cursor.getString(index8);
        String email=cursor.getString(index9);
        buffer.append(cid+" "+name+" "+password+" "+age+" "+sex+"
"+height+" "+weight+" "+phone+" "+email+"\n");
      }
      return buffer.toString();
   }

   public int DeleteOneArgRecord(String usrname) {
      //delete from emp_table where Emp_Name='amit'
      SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();
```

```
    int count=db.delete(MySQLiteOpenHelperSign.TABLE_NAME,
MySQLiteOpenHelperSign.NAME+" = '"+usrname+"'", null);

    return count;

  }


  public int DeleteVoidArgRecord(String usrname) {

    ////delete from emp_table where Emp_Name=?

    SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();

    String[] arguments={usrname};

    int count=db.delete(MySQLiteOpenHelperSign.TABLE_NAME,
MySQLiteOpenHelperSign.NAME+" = ? ", arguments);


    return count;

  }


  public String SearchVoidArgRecord(String usrname,String usrpassword) {

    //select _id,Emp_Name,Emp_Password from emp_table where
Emp_Name='amit';

    SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();

    String[]
columns={MySQLiteOpenHelperSign.UID,MySQLiteOpenHelperSign.NAME,MyS
QLiteOpenHelperSign.PASSWORD,


MySQLiteOpenHelperSign.AGE,MySQLiteOpenHelperSign.SEX,MySQLiteOpenH
elperSign.HEIGHT,MySQLiteOpenHelperSign.WEIGHT,

    MySQLiteOpenHelperSign.PHONE, MySQLiteOpenHelperSign.EMAIL};
```

```
String[] selectionArgs={usrname,usrpassword};
Cursor cursor=db.query(MySQLiteOpenHelperSign.TABLE_NAME,
columns, MySQLiteOpenHelperSign.NAME+" = ? and
"+MySQLiteOpenHelperSign.PASSWORD + "= ?"
        , selectionArgs, null, null, null);
StringBuffer buffer=new StringBuffer();
while(cursor.moveToNext()) {
   int index1=cursor.getColumnIndex(MySQLiteOpenHelperSign.UID);
   int index2=cursor.getColumnIndex(MySQLiteOpenHelperSign.NAME);
   int
index3=cursor.getColumnIndex(MySQLiteOpenHelperSign.PASSWORD);
   int index4=cursor.getColumnIndex(MySQLiteOpenHelperSign.AGE);
   int index5=cursor.getColumnIndex(MySQLiteOpenHelperSign.SEX);
   int index6=cursor.getColumnIndex(MySQLiteOpenHelperSign.HEIGHT);
   int index7=cursor.getColumnIndex(MySQLiteOpenHelperSign.WEIGHT);
   int index8=cursor.getColumnIndex(MySQLiteOpenHelperSign.PHONE);
   int index9=cursor.getColumnIndex(MySQLiteOpenHelperSign.EMAIL);
   int cid=cursor.getInt(index1);
   String name=cursor.getString(index2);
   String password=cursor.getString(index3);
   String age=cursor.getString(index4);
   String sex=cursor.getString(index5);
   String height=cursor.getString(index6);
   String weight=cursor.getString(index7);
```

```
            String phone=cursor.getString(index8);
            String email=cursor.getString(index9);
            buffer.append(cid+" "+name+" "+password+" "+age+" "+sex+"
"+height+" "+weight+" "+phone+" "+email+"\n");
        }
        return buffer.toString();
    }

    public int UpdateOneArgRecord(String usrname,String newpassword) {
        //update emp_table set Emp_Password='amit123456' where
Emp_Name='amit'
        //MyToastMessage.myMessage(context, "Executing
UpdateOneArgRecord");
        SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();
        ContentValues contentValues=new ContentValues();
        contentValues.put(MySQLiteOpenHelperSign.PASSWORD, newpassword);
        int count=db.update(MySQLiteOpenHelperSign.TABLE_NAME,
contentValues, MySQLiteOpenHelperSign.NAME+" = '"+usrname+"'" , null);

        return count;
    }

    public int UpdateVoidArgRecord(String usrname,String newpassword) {
        //update emp_table set Emp_Password=? where Emp_Name=?
```

```
    //MyToastMessage.myMessage(context, "Executing
UpdateVoidArgRecord");
    SQLiteDatabase db=mySQLiteOpenHelperSign.getWritableDatabase();
    ContentValues contentValues=new ContentValues();
    contentValues.put(MySQLiteOpenHelperSign.PASSWORD, newpassword);
    String[] arguments={usrname};
    int count=db.update(MySQLiteOpenHelperSign.TABLE_NAME,
contentValues, MySQLiteOpenHelperSign.NAME+" = ? ", arguments);

    return count;
  }

  public class MySQLiteOpenHelperSign extends SQLiteOpenHelper {
    private static final String DATABASE_NAME = "employee.db";
    private static final String TABLE_NAME = "emp_table";
    private static final int DATABASE_VERSION = 2;
    private static final String UID = "_id";
    private static final String NAME = "Emp_Name";
    private static final String PASSWORD = "Emp_Password";
    private static final String AGE = "Age";
    private static final String SEX = "Sex";
```

```
    private static final String HEIGHT = "Height";

    private static final String WEIGHT = "Weight";

    private static final String PHONE = "Phone";

    private static final String EMAIL = "Email";

    //                  private static final String AGE="Emp_Age";

    //                  private static final String CREATE_TABLE="CREATE TABLE
"+TABLE_NAME+" ("+UID+" INTEGER PRIMARY KEY
AUTOINCREMENT,"+NAME+" VARCHAR(255),"+PASSWORD+"
VARCHAR(255),"+AGE+" INTEGER);";

    private static final String CREATE_TABLE = "CREATE TABLE " +
TABLE_NAME + " (" + UID + " INTEGER PRIMARY KEY AUTOINCREMENT," +
NAME +

            " VARCHAR(255)," + PASSWORD + " VARCHAR(255),"+AGE +"
VARCHAR(255),"+SEX+" VARCHAR(255),"+

            HEIGHT+" VARCHAR(255),"+WEIGHT+" VARCHAR(255),"+PHONE+"
VARCHAR(255),"+EMAIL+" VARCHAR(255));";

    private static final String DROP_TABLE = "DROP TABLE IF EXISTS " +
TABLE_NAME + ";";

    private Context context;


    public MySQLiteOpenHelperSign(Context context) {

       super(context, DATABASE_NAME, null, DATABASE_VERSION);

       this.context = context;

       //MyToastMessage.myMessage(context, "Constructor called...");

    }
```

```
    @Override
    public void onCreate(SQLiteDatabase db) {
      try {
        //MyToastMessage.myMessage(context, "onCreate called...");
        db.execSQL(CREATE_TABLE);
      } catch (Exception e) {
        //e.printStackTrace();
        //MyToastMessage.myMessage(context, "" + e);
      }
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newdVersion) {
      try {
        //MyToastMessage.myMessage(context, "onUpgrade called...");
        db.execSQL(DROP_TABLE);
        onCreate(db);
      } catch (Exception e) {
        //e.printStackTrace();
        //MyToastMessage.myMessage(context, "" + e);
        Log.d("TEST", "" + e);
      }
    }
```

```
    }
}
```

MyToastMessage.java:

```
package com.health_hack.www.healthhack;

import android.content.Context;
import android.widget.Toast;


/**
 * Created by HP on 10-Feb-17.
 */
public class MyToastMessage {
    public static void myMessage(Context con, String str) {
        Toast.makeText(con,str, Toast.LENGTH_SHORT).show();
    }
}
```

Signin.java:

```
package com.health_hack.www.healthhack;


import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
```

```
import android.widget.EditText;
import android.widget.Toast;

public class Signin extends AppCompatActivity {

    MySQLiteAdapterSign mySQLiteAdapterSign;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signin);

        mySQLiteAdapterSign=new MySQLiteAdapterSign(this);
        SQLiteDatabase
db=mySQLiteAdapterSign.mySQLiteOpenHelperSign.getWritableDatabase();

    }

    public void signin(View view) {
        try {
            String user = ((EditText)
findViewById(R.id.usersignin)).getText().toString();
            String pass = ((EditText)
findViewById(R.id.passsignin)).getText().toString();
```

```
        String[] inp = mySQLiteAdapterSign.SearchVoidArgRecord(user,
pass).split("\n")[0].split(" ");
        if (inp[1].equals(user) && inp[2].equals(pass)) {
            Intent intent = new Intent(this, MainActivity.class);
            startActivity(intent);
        } else
            Toast.makeText(getApplicationContext(), "Wrong Credentials..please
try again", Toast.LENGTH_LONG).show();
      }
      catch (Exception e){
        Toast.makeText(getApplicationContext(),"Please enter your username
and password..",Toast.LENGTH_LONG).show();
      }
   }

   public void signup(View view) {
      Intent intent=new Intent(this,Signup.class);
      startActivity(intent);
   }
}
```

Signup.java:

```
package com.health_hack.www.healthhack;
```

```
import android.content.Context;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

public class Signup extends AppCompatActivity {

    String sex;
    EditText
username10,password10,age10,height10,weight10,phone10,email10,confirmp
assword10;
    RadioGroup sex10;
    MySQLiteAdapterSign mySQLiteAdapterSign;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signup);
```

```
    Context context=this;


    mySQLiteAdapterSign=new MySQLiteAdapterSign(context);
    SQLiteDatabase
db=mySQLiteAdapterSign.mySQLiteOpenHelperSign.getWritableDatabase();


  }


  public void signup_submit(View view) {
    //Intent intent = new Intent(this,MainActivity.class);
    //startActivity(intent);
    username10 = (EditText) findViewById(R.id.username);
    password10 = (EditText) findViewById(R.id.password);
    confirmpassword10 = (EditText) findViewById(R.id.newpass);
    email10 = (EditText) findViewById(R.id.email);
    phone10 = (EditText) findViewById(R.id.phone);
    age10 = (EditText) findViewById(R.id.age);
    height10 = (EditText) findViewById(R.id.height);
    weight10 = (EditText) findViewById(R.id.weight);
    sex10 = (RadioGroup) findViewById(R.id.sex);


    String pass = password10.getText().toString();
    String user = username10.getText().toString();
    String a = age10.getText().toString();
```

```
        String h = height10.getText().toString();
        String w = weight10.getText().toString();
        String ph = phone10.getText().toString();
        String mail = email10.getText().toString();
        String conpass = confirmpassword10.getText().toString();

        if (pass != null && user != null && mail != null && sex != null && ph != null
&& a != null && h != null && w != null) {
            if (pass.equals(conpass)) {
                mySQLiteAdapterSign.InsertRecord(user, pass, a, sex, h, w, ph, mail);
                Intent second = new Intent(this, MainActivity.class);
                startActivity(second);
            } else
                Toast.makeText(getApplicationContext(), "Password does not match
Confirm password", Toast.LENGTH_LONG).show();
        } else
            Toast.makeText(getApplicationContext(), "INCOMPLETE
INFORMATION", Toast.LENGTH_SHORT).show();


        finish();
    }

    public void rdbtnclick(View view) {
```

```
    boolean status = ((RadioButton) view).isChecked();
    switch (view.getId()) {
      case R.id.male:
        if (status) sex = "M";
        else sex = "F";
        break;
      case R.id.female:
        if (status) sex = "F";
        else sex = "M";
        break;
    }
 } }
```

activity_history_data.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:paddingBottom="@dimen/activity_vertical_margin"
  android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  android:background="@drawable/background_app"
```

```
tools:context="com.health_hack.www.healthhack.MainActivity">

<ScrollView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_centerHorizontal="true">

   <LinearLayout
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_gravity="center"
      android:id="@+id/history"
      android:orientation="vertical">

      <Button
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="go back"
         android:textStyle="bold|italic"
         android:background="#0700"
         android:clickable="true"
         android:layout_gravity="right"
         android:layout_marginBottom="15dp"
```

```
    android:onClick="go_back" />

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Date"
        android:textSize="25dp"
        android:textStyle="bold"
        android:layout_marginRight="20dp"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Calories"
        android:textSize="25dp"
        android:textStyle="bold"
        android:layout_marginLeft="20dp"/>

</LinearLayout>
```

```
    </LinearLayout>

  </ScrollView>

</RelativeLayout>
```

activity_signin.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:paddingBottom="@dimen/activity_vertical_margin"
  android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  android:background="@drawable/background_app"
  tools:context="com.health_hack.www.healthhack.Signin">
```

```
<TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="let's h@ck your health....."
   android:layout_centerHorizontal="true"
   android:textSize="15dp"/>

<TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Username:"
   android:textStyle="bold|"
   android:textSize="25dp"
   android:background="#07000000"
   android:layout_marginTop="30dp"
   android:textColor="#ffffff"
   android:layout_centerHorizontal="true"
   android:id="@+id/textView2" />

<EditText
   android:layout_width="200dp"
   android:layout_height="wrap_content"
```

```
    android:hint="your user name"
    android:textColor="#ffffff"
    android:textSize="20dp"
    android:layout_marginTop="55dp"
    android:layout_centerHorizontal="true"
    android:textAlignment="center"
    android:inputType="text"
    android:id="@+id/usersignin"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Password:"
    android:textStyle="bold|"
    android:textSize="25dp"
    android:background="#07000000"
    android:layout_marginTop="125dp"
    android:textColor="#ffffff"
    android:layout_centerHorizontal="true"
    android:id="@+id/textView" />

<EditText
    android:layout_width="200dp"
```

```
    android:layout_height="wrap_content"
    android:hint="enter password"
    android:textColor="#ffffff"
    android:textSize="20dp"
    android:layout_marginTop="155dp"
    android:layout_centerHorizontal="true"
    android:textAlignment="center"
    android:inputType="textPassword"
    android:id="@+id/passsignin"/>

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="220dp"
    android:text="Signin"
    android:textStyle="bold"
    android:textSize="20dp"
    android:background="#07000000"
    android:clickable="true"
    android:onClick="signin"/>

<Button
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="300dp"
    android:background="#07000000"
    android:text="signup"
    android:textStyle="bold"
    android:textSize="20dp"
    android:clickable="true"
    android:onClick="signup"/>

</RelativeLayout>
```

activity_signup.xml:

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:paddingBottom="@dimen/activity_vertical_margin"
   android:paddingLeft="@dimen/activity_horizontal_margin"
```

```
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
android:background="@drawable/background_app"
android:layout_centerHorizontal="true"
tools:context="com.health_hack.www.healthhack.Signup">

<ScrollView
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:layout_centerHorizontal="true">

   <LinearLayout
      android:layout_width="match_parent"
      android:layout_height="match_parent"
      android:orientation="vertical"
      android:layout_gravity="center_horizontal">

      <TextView
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="Username:"
         android:textStyle="bold|"
         android:textSize="25dp"
```

```
    android:background="#07000000"
    android:layout_marginTop="30dp"
    android:textColor="#ffffff"
    android:layout_centerHorizontal="true"
    android:id="@+id/textView2"
    android:layout_gravity="center_horizontal" />

<EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:hint="your user name"
    android:textColor="#ffffff"
    android:textSize="20dp"
    android:layout_centerHorizontal="true"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:inputType="text"
    android:id="@+id/username"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Password:"
```

```
    android:textStyle="bold|"
    android:textSize="25dp"
    android:background="#07000000"
    android:layout_marginTop="10dp"
    android:textColor="#ffffff"
    android:layout_centerHorizontal="true"
    android:layout_gravity="center_horizontal" />

<EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:hint="Enter password"
    android:textColor="#ffffff"
    android:textSize="20dp"
    android:layout_centerHorizontal="true"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:inputType="textPassword"
    android:id="@+id/password"/>

<EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
```

```
    android:hint="Confirm password"
    android:textColor="#ffffff"
    android:textSize="20dp"
    android:layout_centerHorizontal="true"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:inputType="textPassword"
    android:id="@+id/newpass"/>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="10dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Age:"
        android:textStyle="bold"
        android:textSize="20dp"
        android:background="#07000000"
```

```
        android:textColor="#ffffff"
        android:layout_centerHorizontal="true"
        android:layout_gravity="center_horizontal" />
    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Enter your age"
        android:textColor="#ffffff"
        android:textSize="20dp"
        android:layout_centerHorizontal="true"
        android:layout_gravity="center_horizontal"
        android:textAlignment="center"
        android:inputType="number"
        android:id="@+id/age"/>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="10dp">
```

```
    <RadioGroup
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/sex">
        <RadioButton
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Male"
            android:textStyle="bold"
            android:id="@+id/male"
            android:onClick="rdbtnclick"/>
        <RadioButton
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Female"
            android:textStyle="bold"
            android:id="@+id/female"
            android:onClick="rdbtnclick"/>
    </RadioGroup>
</LinearLayout>

<LinearLayout
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:layout_gravity="center_horizontal"
android:layout_marginTop="10dp">

<TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Height:"
   android:textStyle="bold"
   android:textSize="20dp"
   android:background="#07000000"
   android:textColor="#ffffff"
   android:layout_centerHorizontal="true"
   android:layout_gravity="center_horizontal" />
<EditText
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:hint="Enter your height(in feet)"
   android:textColor="#ffffff"
   android:textSize="20dp"
   android:layout_centerHorizontal="true"
```

```
        android:layout_gravity="center_horizontal"
        android:textAlignment="center"
        android:inputType="number"
        android:id="@+id/height"/>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="10dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Weight:"
        android:textStyle="bold"
        android:textSize="20dp"
        android:background="#07000000"
        android:textColor="#ffffff"
        android:layout_centerHorizontal="true"
```

```
        android:layout_gravity="center_horizontal" />
    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Enter your weight (in kg)"
        android:textColor="#ffffff"
        android:textSize="20dp"
        android:layout_centerHorizontal="true"
        android:layout_gravity="center_horizontal"
        android:textAlignment="center"
        android:inputType="number"
        android:id="@+id/weight"/>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="10dp">

    <TextView
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Phone:"
        android:textStyle="bold"
        android:textSize="20dp"
        android:background="#07000000"
        android:textColor="#ffffff"
        android:layout_centerHorizontal="true"
        android:layout_gravity="center_horizontal" />
    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Enter your phone number"
        android:textColor="#ffffff"
        android:textSize="20dp"
        android:layout_centerHorizontal="true"
        android:layout_gravity="center_horizontal"
        android:textAlignment="center"
        android:inputType="phone"
        android:id="@+id/phone"/>

</LinearLayout>
```

```
<LinearLayout
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:orientation="horizontal"
   android:layout_gravity="center_horizontal"
   android:layout_marginTop="10dp">

   <TextView
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Email:"
      android:textStyle="bold"
      android:textSize="20dp"
      android:background="#07000000"
      android:textColor="#ffffff"
      android:layout_centerHorizontal="true"
      android:layout_gravity="center_horizontal" />
   <EditText
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:hint="Enter your email id"
      android:textColor="#ffffff"
      android:textSize="20dp"
```

```
        android:layout_centerHorizontal="true"
        android:layout_gravity="center_horizontal"
        android:textAlignment="center"
        android:inputType="textEmailAddress"
        android:id="@+id/email"/>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_gravity="center_horizontal"
    android:layout_marginTop="10dp">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:background="#07000000"
        android:text="submit"
        android:textSize="20dp"
        android:textStyle="bold"
```

```
            android:clickable="true"
            android:onClick="signup_submit"/>

        </LinearLayout>

    </LinearLayout>
</ScrollView>

</RelativeLayout>
```

activity_third_page.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:paddingBottom="@dimen/activity_vertical_margin"
   android:paddingLeft="@dimen/activity_horizontal_margin"
   android:paddingRight="@dimen/activity_horizontal_margin"
   android:paddingTop="@dimen/activity_vertical_margin"
   android:background="@drawable/background_app"
```

```
tools:context="com.health_hack.www.healthhack.MainActivity">

<ScrollView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_centerHorizontal="true">
   <LinearLayout
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:orientation="vertical">

      <TextView
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="health is wealth !!"
         android:textStyle="bold|italic"
         android:textSize="15dp"
         android:layout_gravity="center"/>

      <LinearLayout
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:orientation="horizontal"
```

```
    android:layout_marginTop="20dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Calories Burnt Today: "
        android:textStyle="bold"
        android:textSize="20dp"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="0 Calories"
        android:textStyle="bold"
        android:textSize="20dp"
        android:id="@+id/calo"/>

</LinearLayout>

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
```

```
            android:layout_marginTop="20dp"
            android:text="Start Exercise"
            android:clickable="true"
            android:onClick="start_exercise"/>
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:text="Stop Exercise"
            android:clickable="true"
            android:onClick="stop_exercise"/>
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:text="Check History"
            android:clickable="true"
            android:onClick="check_history"/>
    </LinearLayout>

  </ScrollView>
</RelativeLayout>
```

AndroidManifest:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.health_hack.www.healthhack">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/logo"
        android:label="@string/app_name"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".Signin">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".MainActivity" />
        <activity android:name=".History_Data" />
        <activity android:name=".Signup"></activity>
    </application>
```

```
</manifest>
```

Certificate

This is to certify that Mr. Pinaki Nath Chowdhury of Kalyani Government Engineering College , registration number: 141020110028, has successfully completed a project on Health tracking app “Health_h@ck” using Android under the guidance of Mr. Arnab Chakraborty.

---------- -

Arnab Chakraborty
Globsyn Finishing School
(a division of Globsyn Skills)

Certificate

This is to certify that Ms. Namrata Gupta Roy of Kalyani Government Engineering College , registration number: 141020110024, has successfully completed a project on Health tracking app “Health_h@ck” using Android under the guidance of Mr. Arnab Chakraborty.

---------- -

Arnab Chakraborty
Globsyn Finishing School
(a division of Globsyn Skills)

Certificate

This is to certify that Ms. Sumana Jana of Kalyani Government Engineering College , registration number: 141020110114, has successfully completed a project on Health tracking app “Health_h@ck” using Android under the guidance of Mr. Arnab Chakraborty.

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Arnab Chakraborty
Globsyn Finishing School
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