

# LAMPIRAN

## Pemrograman Android

### SplashScreen.java

```
package com.example.jalu.iheartcare;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
public class SplashScreen extends Activity{
    /*mengatur waktu tampil animasi splash screen*/

    // membuat instance variable waktu_splash
    private static final int waktu_splash = 2 * 5000; // 1 seconds

    /* Mengatur isi activity dari resource layout */
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.splashscreen);

        // method postDelayed
        new Handler().postDelayed(new Runnable() {

            @Override
            public void run() {
                // runnable process untuk membuat intent baru
                // untuk berpindah dari aktivitas splashscreen ke menu utama UGM.class
                Intent konten = new Intent(SplashScreen.this,
                TampilanUtama.class); // objek reference baru Intent adalah konten
                startActivity(konten); // method untuk menjalankan
                // Intent yaitu (konten)

                finish(); //method mengakhiri activity
            }
        }, waktu_splash);

        //method yang berfungsi untuk memberikan efek
        //transisi animasi fade_in dan fade_out
        overridePendingTransition(R.anim.fade_in,
        R.anim.fade_out);
    }
}
```

### TampilanUtama.java

```
package com.example.jalu.iheartcare;
import android.os.Bundle;
import android.view.Window;
import android.app.Activity;
import android.content.Intent;
import android.view.View;
import android.widget.Button;
public class TampilanUtama extends Activity
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        this.requestWindowFeature(Window.FEATURE_NO_TITLE);
        setContentView(R.layout.dashboard_layout);
        Button btn_cp= (Button) findViewById(R.id.btn_cp);
        btn_cp.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                Intent i = new Intent(getApplicationContext(),
About.class);
                startActivity(i);
            }
        });
        Button btn_bt= (Button) findViewById(R.id.btn_bt);
        btn_bt.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                startActivity(new Intent(TampilanUtama.this,
MenuBluetooth.class));
            }
        });
        Button btn_ins= (Button) findViewById(R.id.btn_ins);
        btn_ins.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                Intent i = new Intent(getApplicationContext(),
Instruction.class);
                startActivity(i);
            }
        });
    }
}
```

### MainActivity.java

```
package com.example.jalu.iheartcare;
import java.io.IOException;
import android.app.ProgressDialog;
import android.content.Context;
import java.io.InputStream;
import java.io.OutputStream;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.HashMap;
import java.util.Map;
import java.util.UUID;
import android.app.Activity;
import android.bluetooth.BluetoothAdapter;
```

```

import android.bluetooth.BluetoothDevice;
import android.bluetooth.BluetoothSocket;
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.GridView;
import android.widget.AdapterView;
import android.widget.BaseAdapter;
import android.widget.ImageView;
import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;
import org.json.JSONObject;
public class MainActivity extends Activity {
    TextView txtString, txtStringLength, TextView2, TextView3;
    ProgressDialog pd;
    String ServerURL = "http://iheartcare.net/index.php" ;
    Button btnSAVE;
    String RDate, RHeartRate, RTemp, RCondition;
    //DBHelper mydb;
    //int month;
    Handler bluetoothIn;
    //instance variabel
    final int handlerState = 0;
    private BluetoothAdapter btAdapter = null;
    private BluetoothSocket btSocket = null;
    private StringBuilder recDataString = new StringBuilder();
    private ConnectedThread mConnectedThread;
    private static final UUID BTMODULEUUID =
UUID.fromString("00001101-0000-1000-8000-00805F9B34FB");
    private static String address;
    //private ListView obj;
    DBHelper mydb;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main_activity);
        GridView gridView = (GridView) findViewById(R.id.
gridView);
        gridView.setAdapter(new ImageAdapter(this));
        gridView.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
            @Override
                public void onItemClick(AdapterView<?> parent, View
view, int position, long id) {
                    Toast.makeText(MainActivity.this, "" + position,
Toast.LENGTH_LONG).show();
                }
            });
        txtString = (TextView) findViewById(R.id.txtString);
        txtStringLength = (TextView) findViewById(R.id.testView1);
        TextView2 = (TextView) findViewById(R.id.textview2);

```

```

TextView3 = (TextView) findViewById(R.id.textView3);
mydb = new DBHelper(this);
btnSAVE = (Button) findViewById(R.id.button4);
btnSAVE.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        SimpleDateFormat dateFormat = new
SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
        Date date = new Date();
        SimpleDateFormat dateFormat2 = new
SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
        mydb.insertSensor(dateFormat.format(date),
txtString.getText().toString().replace("BPM:", ""),
txtStringLength.getText().toString().replace("SUHU:", ""),
TextView3.getText().toString().replace("KONDISI", ""));
        insertdata(dateFormat2.format(date),
txtString.getText().toString().replace("BPM:", "").replace("bpm",
 "").trim(), txtStringLength.getText().toString().replace("SUHU:",
 "").replace("*C", "").trim(),
TextView3.getText().toString().replace("KONDISI", "").replace(":",
 "").trim());
        startActivity(new Intent(MainActivity.this,
SAVE.class));
    }
});

bluetoothIn = new Handler() {
    public void handleMessage(android.os.Message msg) {
        if (msg.what == handlerState) {
            String readMessage = (String) msg.obj;
            recDataString.append(readMessage);
            int endOfLineIndex =
recDataString.indexOf("~");
            if (endOfLineIndex > 0) {
                int spacePOS = recDataString.indexOf("#");
                int spacePOS2 =
recDataString.indexOf("+");
                int spacePOS3 =
recDataString.indexOf("$");
                String dataInPrint =
recDataString.substring(spacePOS + 1, spacePOS2);
                txtString.setText("\t \t \t \t \tBPM:\n \t
\t \t" + dataInPrint + "bpm");
                dataInPrint =
recDataString.substring(spacePOS2 + 1, spacePOS3);
                txtStringLength.setText("\t \t \t \t
\tSUHU:\n" +
                "\t \t \t \t" + dataInPrint +
                "*C");
                dataInPrint =
recDataString.substring(spacePOS3 + 1, endOfLineIndex);
                TextView2.setText("\t \t \tBATERAI:\n" +
                "\t \t \t \t \t \t" +
                dataInPrint);
                String regex = "[0-9]+";
                int BPM = 100;
                int SUHU = 3000;
                try{
                    BPM =

```

```

Integer.parseInt(recDataString.substring(spacePOS + 1,
spacePOS2).trim().replaceAll("\\D+", ""));
        SUHU =
Integer.parseInt(recDataString.substring(spacePOS2 + 1,
spacePOS3).trim().replaceAll("\\D+", ""));
        }catch (Exception e){
        }
        String keterangan = "NORMAL";
        if ( (BPM>=60 && BPM<=100) && (SUHU>=3600
&& SUHU<=3750)) {
                keterangan = "SEHAT";
        }else{
                keterangan = "SAKIT";
        }
        //+String.valueOf(BPM)+" "+String.valueOf(SUHU);
        }
        TextView3.setText ("\t \t \tKONDISI:\n" +
                " \t \t \t \t \t"+keterangan);
        recDataString.delete(0,
recDataString.length());
        // strIncom = " ";
        dataInPrint = " ";
        }
        }
        };
        btAdapter = BluetoothAdapter.getDefaultAdapter();
        checkBTState();
    }
    private BluetoothSocket createBluetoothSocket(BluetoothDevice
device) throws IOException {
        return
device.createRfcommSocketToServiceRecord(BTMODULEUUID);
    }
    @Override
    public void onResume() {
        super.onResume();
        Intent intent = getIntent();
        address =
intent.getStringExtra(MenuBluetooth.EXTRA_DEVICE_ADDRESS);
        BluetoothDevice device =
btAdapter.getRemoteDevice(address);
        try {
            btSocket = createBluetoothSocket(device);
        } catch (IOException e) {
            Toast.makeText(getBaseContext(), "Socket creation
failed", Toast.LENGTH_LONG).show();
        }
        try
        {
            btSocket.connect();
        } catch (IOException e) {
            try
            {
                btSocket.close();
            } catch (IOException e2)
            {
            }
        }
    }
    mConnectedThread = new ConnectedThread(btSocket);

```

```

        mConnectedThread.start();
        mConnectedThread.write("x");
    }
    @Override
    public void onPause()
    {
        super.onPause();
        try
        {
            btSocket.close();
        } catch (IOException e2) {
        }
    }
    private void checkBTState() {
        if(btAdapter==null) {
            Toast.makeText (getBaseContext (), "Device does not
support bluetooth", Toast.LENGTH_LONG).show();
        } else {
            if (btAdapter.isEnabled()) {
            } else {
                Intent enableBtIntent = new
Intent(BluetoothAdapter.ACTION_REQUEST_ENABLE);
                startActivityForResult(enableBtIntent, 1);
            }
        }
    }
    private class ConnectedThread extends Thread {
        private final InputStream mmInStream;
        private final OutputStream mmOutStream;
        public ConnectedThread(BluetoothSocket socket) {
            InputStream tmpIn = null;
            OutputStream tmpOut = null;
            try {
                tmpIn = socket.getInputStream();
                tmpOut = socket.getOutputStream();
            } catch (IOException e) { }
            mmInStream = tmpIn;
            mmOutStream = tmpOut;
        }
        public void run() {
            byte[] buffer = new byte[256];
            int bytes;
            while (true) {
                try {
                    bytes = mmInStream.read(buffer);
                    String readMessage = new String(buffer, 0,
bytes);
                    bluetoothIn.obtainMessage(handlerState, bytes,
-1, readMessage).sendToTarget();
                } catch (IOException e) {
                    break;
                }
            }
        }
        //write method
        public void write(String input) {
            byte[] msgBuffer = input.getBytes();
            try {
                mmOutStream.write(msgBuffer);
            }

```

```

        } catch (IOException e) {
            Toast.makeText(getBaseContext(), "Connection
Failure", Toast.LENGTH_LONG).show();
            finish();
        }
    }
}

public class ImageAdapter extends BaseAdapter {
    private Context mContext;
    public ImageAdapter(Context c){
        mContext = c;
    }
    public int getCount(){
        return mThumbIds.length;
    }
    public Object getItem(int position){
        return null;
    }
    public long getItemId(int position){
        return 0;
    }
    public View getView(int position, View convertView,
    ViewGroup parent){
        ImageView imageView = new ImageView(mContext);
        imageView.setLayoutParams(new
    GridView.LayoutParams(130, 130));
        imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
        imageView.setPadding(10, 10, 10, 10);
        imageView.setImageResource(mThumbIds[position]);
        return imageView;
    }
    private Integer[] mThumbIds = {
        R.drawable.hat,
        R.drawable.cel,
        R.drawable.bat,
        R.drawable.sm,
    };
}

public void insertdata(final String Dt, final String
HeartRate, final String Temp, final String Condition) {
    //Toast.makeText(MainActivity.this, Dt + " " + HeartRate +
    " " + Temp + " " + Condition, Toast.LENGTH_SHORT).show();
    StringRequest PostRequest = new
    StringRequest(Request.Method.POST,
    "http://iheartcare.net/insertdata.php", new
    Response.Listener<String>() {
        @Override
        public void onResponse(String response) {
            Toast.makeText(MainActivity.this, "Berhasil " +
    response, Toast.LENGTH_SHORT).show();
            pd.dismiss();
        }
    },
    new Response.ErrorListener() {
        @Override
        public void onErrorResponse(VolleyError error)
    {
        Toast.makeText(MainActivity.this, "Error",
    Toast.LENGTH_SHORT).show();
}
}
}

```

```

    }
    }
    ){
        protected Map<String, String> getParams() {
            Map<String, String> params = new HashMap<>();
            params.put("Date", Dt);
            params.put("HeartRate", HeartRate);
            params.put("Temp", Temp);
            params.put("Condition", Condition);
            return params;
        }
    };
    pd = ProgressDialog.show(MainActivity.this, "Please Wait",
"Connecting", true);
    pd.setCancelable(true);

    Volley.newRequestQueue(this).add(PostRequest);
}
}

```

#### MenuBluetooth.java

```

package com.example.jalu.iheartcare;
import java.util.Set;
import android.app.Activity;
import android.bluetooth.BluetoothAdapter;
import android.bluetooth.BluetoothDevice;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.AdapterView.OnItemClickListener;
public class MenuBluetooth extends Activity {
    private static final String TAG = "TampilanUtama";
    private static final boolean D = true;
    TextView textView1;
    // extra string untuk dikirim ke BT Layout
    public static String EXTRA_DEVICE_ADDRESS = "device_address";
    private BluetoothAdapter mBtAdapter;
    private ArrayAdapter<String> mPairedDevicesArrayAdapter;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.bt_layout);
    }
    @Override
    public void onResume()
    {
        super.onResume();
        checkBTState();
        textView1 = (TextView) findViewById(R.id.connecting);
    }
}

```



```

        textView1.setTextSize(20);
        textView1.setText(" ");
        //inisialisasi array untuk perangkat bluetooth yg sdh
        terhubung
        mPairedDevicesArrayAdapter = new
        ArrayAdapter<String>(this, R.layout.device_name);
        ListView pairedListView = (ListView)
        findViewById(R.id.paired_devices);
        pairedListView.setAdapter(mPairedDevicesArrayAdapter);
        pairedListView.setOnItemClickListener(mDeviceClickListener);
        // mendapatkan local bluetooth adapter
        mBtAdapter = BluetoothAdapter.getDefaultAdapter();
        //ambil paired/bonded device, akan ditampung di arraylist
        Set<BluetoothDevice> pairedDevices =
        mBtAdapter.getBondedDevices();
        // menambahkan perangkat yg terhubung ke array
        if (pairedDevices.size() > 0) {
            //Loop semua paired devices
            findViewById(R.id.title_paired_devices).setVisibility(View.VISIBLE
        );//make title viewable
            for (BluetoothDevice device : pairedDevices) {
                //tambahkan ke listview
                mPairedDevicesArrayAdapter.add(device.getName() +
                "\n" + device.getAddress());
            }
        } else {
            String noDevices =
            getResources().getText(R.string.none_paired).toString();
            mPairedDevicesArrayAdapter.add(noDevices);
        }
    }
    private OnItemClickListener mDeviceClickListener = new
    OnItemClickListener() {
        public void onItemClick(AdapterView<?> av, View v, int
        arg2, long arg3) {
            textView1.setText("Menyambungkan...");
            String info = ((TextView) v).getText().toString();
            String address = info.substring(info.length() - 17);
            //Toast.makeText(TampilanAwal.this,address.toString(),
            Toast.LENGTH_LONG).show();
            // membuat intent untuk memulai activity bersamaan
            dengan mengambil extra MAC Add
            Intent i = new Intent(MenuBluetooth.this,
            MainActivity.class);
            i.putExtra(EXTRA_DEVICE_ADDRESS, address);
            startActivity(i);
        }
    };
    private void checkBTState() {
        mBtAdapter=BluetoothAdapter.getDefaultAdapter();
        if(mBtAdapter==null) {
            Toast.makeText(getBaseContext(), "Device does not
            support Bluetooth", Toast.LENGTH_SHORT).show();
        } else {
            if (mBtAdapter.isEnabled()) {
                Log.d(TAG, "...Bluetooth ON...");
            } else {
                //menampilkan dialog untuk menyalakan Bluetooth
                apabila

```

```

        Intent enableBtIntent = new
Intent (BluetoothAdapter.ACTION_REQUEST_ENABLE);
        startActivityForResult (enableBtIntent, 1);
    }
}
}
}
}

```

#### About.java

```

package com.example.jalu.iheartcare;
import android.app.Activity;
import android.os.Bundle;
import android.view.Window;
/**
 * Created by jalu on 09/11/2016.
 */
public class About extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate (savedInstanceState);
        this.requestWindowFeature (Window.FEATURE_NO_TITLE);
        setContentView (R.layout.cp_layout);
    }
}

```

#### Instruction.java

```

package com.example.jalu.iheartcare;
import android.app.Activity;
import android.os.Bundle;
import android.view.Window;
/**
 * Created by jalu on 09/11/2016.
 */
public class Instruction extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate (savedInstanceState);
        this.requestWindowFeature (Window.FEATURE_NO_TITLE);
        setContentView (R.layout.inst_layout);
    }
}

```

#### DBHelper.java

```

package com.example.jalu.iheartcare;
import android.content.ContentValues;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.content.Context;
import java.util.ArrayList;

```

```

import java.util.HashMap;
import java.util.List;
import static com.example.jalu.iheartcare.konstanta.FIFTH_COLUMN;
import static com.example.jalu.iheartcare.konstanta.FIRST_COLUMN;
import static com.example.jalu.iheartcare.konstanta.FOURTH_COLUMN;
import static com.example.jalu.iheartcare.konstanta.SECOND_COLUMN;
import static com.example.jalu.iheartcare.konstanta.THIRD_COLUMN;
public class DBHelper extends SQLiteOpenHelper {
    public static final String DATABASE_bpm = "DB_Sensor.db";
    public static final String SENSOR_TABLE = "sensor";
    public static final String SENSOR_COLUMN_ID = "id";
    public static final String SENSOR_COLUMN_BPM = "bpm";
    public static final String SENSOR_COLUMN_SUHU = "suhu";
    public static final String SENSOR_COLUMN_KONDISI = "kondisi";
    public static final String SENSOR_COLUMN_TANGGAL = "tgl";
    //public static final String SENSOR_COLUMN NOMOR = "no";
    public DBHelper(Context context){
        super(context, DATABASE_bpm, null, 1);
    }
    @Override
    //membuat database
    public void onCreate(SQLiteDatabase db){
        db.execSQL("create table "+SENSOR_TABLE+" "(id INTEGER
PRIMARY KEY AUTOINCREMENT, tgl text, bpm text, suhu text, kondisi
text)");
    }
    @Override
    //untuk mempebaharyui table
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newVersion){
        db.execSQL("DROP TABLE IF EXISTS "+SENSOR_TABLE);
        onCreate(db);
    }
    //untuk menambahkan data ke tabel sensor
    public boolean insertSensor(String tgl, String bpm, String
suhu, String kondisi){
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues contentValues = new ContentValues();
        contentValues.put("tgl", tgl);
        contentValues.put("bpm", bpm);
        contentValues.put("suhu", suhu);
        contentValues.put("kondisi", kondisi);
        db.insert(SENSOR_TABLE, null, contentValues);
        return true;
    }
    public ArrayList<String> getAllSensor(){
        ArrayList<String> array_list = new ArrayList<String>();
        SQLiteDatabase db = this.getReadableDatabase();
        Cursor res = db.rawQuery("select * from "+SENSOR_TABLE,
null);
        res.moveToFirst();
        while (res.isAfterLast() == false){
            res.moveToNext();
        }
        return array_list;
    }
    private ArrayList<HashMap<String, String>> list;
    public ArrayList<HashMap<String, String>>
getAllSensor Column(){

```

```

        list = new ArrayList<HashMap<String, String>>();
        SQLiteDatabase db = this.getReadableDatabase();
        Cursor res = db.rawQuery("select * from "+SENSOR_TABLE,
null);
        res.moveToFirst();
        int no = 1;
        while (res.isAfterLast() == false){
            HashMap<String, String> temp = new HashMap<String,
String>();
            temp.put(FIFTH_COLUMN, String.valueOf(no));
            temp.put(FIRST_COLUMN,
res.getString(res.getColumnIndex(SENSOR_COLUMN_BPM)));
            temp.put(SECOND_COLUMN,
res.getString(res.getColumnIndex(SENSOR_COLUMN_SUHU)));
            temp.put(THIRD_COLUMN,
res.getString(res.getColumnIndex(SENSOR_COLUMN_KONDISI)));
            temp.put(FOURTH_COLUMN,
res.getString(res.getColumnIndex(SENSOR_COLUMN_TANGGAL)));
            list.add(temp);
            res.moveToNext();
            no=no+1;
        }
        return list;
    }
    public Integer deleteSensor(long id)
    {
        SQLiteDatabase db = this.getWritableDatabase();
        return db.delete(SENSOR_TABLE, SENSOR_COLUMN_ID+"=?", new
String[]{Long.toString(id)});
    }
    public Integer deleteAll()
    {
        SQLiteDatabase db = this.getWritableDatabase();
        return db.delete(SENSOR_TABLE, null, null);
    }
}

```

### Save.java

```

package com.example.jalu.iheartcare;
import android.app.Activity;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.HashMap;
public class SAVE extends Activity {
    private ListView obj;
    Button btnSIMPAN;
    Button btnDEL;
    DBHelper mydb;
}

```

```

ProgressDialog prgDialog;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.simpan_layout);
    mydb = new DBHelper(this);
    ArrayList<HashMap<String, String>> array_list =
mydb.getAllSensor_Column();
    ListView listView = (ListView)
findViewById(R.id.listView2);
    ListViewAdapter adapter = new ListViewAdapter(this,
array_list);
    listView.setAdapter(adapter);
    listView.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> parent, final
View view, int position, long id) {
            int pos = position + 1;
            Toast.makeText(SAVE.this, Integer.toString(pos) +
"Clicked", Toast.LENGTH_SHORT).show();
            mydb.deleteAll();
            finish();
            startActivity(new Intent(SAVE.this, SAVE.class));
        }
    });
    Button btnDEL = (Button) findViewById(R.id.button5);
    btnDEL.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            mydb.deleteAll();
            finish();
            startActivity(new Intent(SAVE.this, SAVE.class));
        }
    });
}
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if
it is present.
    getMenuInflater().inflate(R.menu.menu_simpan, menu);
    return true;
}
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
// automatically handle clicks on the Home/Up button, so
long
// as you specify a parent activity in
AndroidManifest.xml.
    int id = item.getItemId();
    //noinspection SimplifiableIfStatement
    if (id == R.id.action_settings) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
}
}

```

```

ListViewAdapter.java
package com.example.jalu.iheartcare;
import static com.example.jalu.iheartcare.konstanta.FIRST_COLUMN;
import static com.example.jalu.iheartcare.konstanta.SECOND_COLUMN;
import static com.example.jalu.iheartcare.konstanta.THIRD_COLUMN;
import static com.example.jalu.iheartcare.konstanta.FOURTH_COLUMN;
import static com.example.jalu.iheartcare.konstanta.FIFTH_COLUMN;
import java.util.ArrayList;
import java.util.HashMap;
import android.app.Activity;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;
public class ListViewAdapter extends BaseAdapter{
    public ArrayList<HashMap<String, String>> list;
    Activity activity;
    TextView txtFirst;
    TextView txtSecond;
    TextView txtThird;
    TextView txtFourth;
    TextView txtFifth;
    public ListViewAdapter(Activity
activity,ArrayList<HashMap<String, String>> list){
        super();
        this.activity=activity;
        this.list=list;
    }
    @Override
    public int getCount() {
        // TODO Auto-generated method stub
        return list.size();
    }
    @Override
    public Object getItem(int position) {
        // TODO Auto-generated method stub
        return list.get(position);
    }
    @Override
    public long getItemId(int position) {
        // TODO Auto-generated method stub
        return 0;
    }
    @Override
    public View getView(int position, View convertView, ViewGroup
parent) {
        // TODO Auto-generated method stub
        LayoutInflater inflater=activity.getLayoutInflater();
        if(convertView == null){
            convertView=inflater.inflate(R.layout.column_row,
null);
            txtFirst=(TextView)
convertView.findViewById(R.id.heartrate);
            txtSecond=(TextView)

```

```

convertView.findViewById(R.id.temperature);
    txtThird=(TextView)
convertView.findViewById(R.id.condition);
    txtFourth =(TextView)
convertView.findViewById(R.id.tanggal);
    txtFifth = (TextView)
convertView.findViewById(R.id.No);
    }
    HashMap<String, String> map=list.get(position);
    txtFirst.setText(map.get(FIRST_COLUMN));
    txtSecond.setText(map.get(SECOND_COLUMN));
    txtThird.setText(map.get(THIRD_COLUMN));
    txtFourth.setText(map.get(FOURTH_COLUMN));
    int n=position+1;
    txtFifth.setText(Integer.toString(getCount()));
    return convertView;
    }
}

```

#### DashboardLayout.java

```

package com.example.jalu.iheartcare;
import android.content.Context;
import android.util.AttributeSet;
import android.view.View;
import android.view.ViewGroup;
    public class DashboardLayout extends ViewGroup {
        private static final int UNEVEN_GRID_PENALTY_MULTIPLIER =
10;

        private int mMaxChildWidth = 0;
        private int mMaxChildHeight = 0;
        public DashboardLayout(Context context) {
            super(context, null);
        }
        public DashboardLayout(Context context, AttributeSet
attrs) {
            super(context, attrs, 0);
        }
        public DashboardLayout(Context context, AttributeSet
attrs, int defStyle) {
            super(context, attrs, defStyle);
        }
        @Override
        protected void onMeasure(int widthMeasureSpec, int
heightMeasureSpec) {
            mMaxChildWidth = 0;
            mMaxChildHeight = 0;
            // Measure once to find the maximum child size.
            int childWidthMeasureSpec =
MeasureSpec.makeMeasureSpec(
                MeasureSpec.getSize(widthMeasureSpec),
MeasureSpec.AT_MOST);
            int childHeightMeasureSpec =
MeasureSpec.makeMeasureSpec(
                MeasureSpec.getSize(widthMeasureSpec),
MeasureSpec.AT_MOST);
            final int count = getChildCount();

```

```

        for (int i = 0; i < count; i++) {
            final View child = getChildAt(i);
            if (child.getVisibility() == GONE) {
                continue;
            }
            child.measure(childWidthMeasureSpec,
childHeightMeasureSpec);
            mMaxChildWidth = Math.max(mMaxChildWidth,
child.getMeasuredWidth());
            mMaxChildHeight = Math.max(mMaxChildHeight,
child.getMeasuredHeight());
        }
        // Measure again for each child to be exactly the same
size.
        childWidthMeasureSpec = MeasureSpec.makeMeasureSpec(
            mMaxChildWidth, MeasureSpec.EXACTLY);
        childHeightMeasureSpec = MeasureSpec.makeMeasureSpec(
            mMaxChildHeight, MeasureSpec.EXACTLY);
        for (int i = 0; i < count; i++) {
            final View child = getChildAt(i);
            if (child.getVisibility() == GONE) {
                continue;
            }
            child.measure(childWidthMeasureSpec,
childHeightMeasureSpec);
        }
        setMeasuredDimension(
            resolveSize(mMaxChildWidth, widthMeasureSpec),
            resolveSize(mMaxChildHeight,
heightMeasureSpec));
    }
    @Override
    protected void onLayout(boolean changed, int l, int t, int
r, int b) {
        int width = r - l;
        int height = b - t;
        final int count = getChildCount();
        // Calculate the number of visible children.
        int visibleCount = 0;
        for (int i = 0; i < count; i++) {
            final View child = getChildAt(i);
            if (child.getVisibility() == GONE) {
                continue;
            }
            ++visibleCount;
        }
        if (visibleCount == 0) {
            return;
        }
        // Calculate what number of rows and columns will
optimize for even horizontal and
        // vertical whitespace between items. Start with a 1 x
N grid, then try 2 x N, and so on.
        int bestSpaceDifference = Integer.MAX_VALUE;
        int spaceDifference;
        // Horizontal and vertical space between items
        int hSpace = 0;
        int vSpace = 0;
        int cols = 1;

```



```

        int rows;
        while (true) {
            rows = (visibleCount - 1) / cols + 1;
            hSpace = ((width - mMaxChildWidth * cols) / (cols
+ 1));

            vSpace = ((height - mMaxChildHeight * rows) /
(rows + 1));

            spaceDifference = Math.abs(vSpace - hSpace);
            if (rows * cols != visibleCount) {
                spaceDifference *=
UNEVEN_GRID_PENALTY_MULTIPLIER;
            }
            if (spaceDifference < bestSpaceDifference) {
                bestSpaceDifference = spaceDifference;
            }
            if (rows == 1) {
                break;
            }
        } else {
            --cols;
            rows = (visibleCount - 1) / cols + 1;
            hSpace = ((width - mMaxChildWidth * cols) /
(cols + 1));

            vSpace = ((height - mMaxChildHeight * rows) /
(rows + 1));

            break;
        }
        ++cols;
    }
    hSpace = Math.max(0, hSpace);
    vSpace = Math.max(0, vSpace);
    width = (width - hSpace * (cols + 1)) / cols;
    height = (height - vSpace * (rows + 1)) / rows;
    int left, top;
    int col, row;
    int visibleIndex = 0;
    for (int i = 0; i < count; i++) {
        final View child = getChildAt(i);
        if (child.getVisibility() == GONE) {
            continue;
        }
        row = visibleIndex / cols;
        col = visibleIndex % cols;
        left = hSpace * (col + 1) + width * col;
        top = vSpace * (row + 1) + height * row;
        child.layout(left, top,
            (hSpace == 0 && col == cols - 1) ? r :
(left + width),
            (vSpace == 0 && row == rows - 1) ? b :
(top + height));
        ++visibleIndex;
    }
}
}
}

```

**Konstanta.java**

**package** com.example.jalu.iheartcare;

```

public class konstanta {
    public static final String FIRST_COLUMN = "First";
    public static final String SECOND_COLUMN = "Second";
    public static final String THIRD_COLUMN = "THIRD";
    public static final String FOURTH_COLUMN = "Fourth";
    public static final String FIFTH_COLUMN = "Five";
    public static final String SIXTH_COLUMN = "Six";
}

```

## PEMROGRAMAN WEB

```

<?php
//nclude("koneksi.php");
$dbhost = "localhost";
$dbuser = "iheartca_ihtable";
$dbpass = "rinaldi963369";
$dbname = "iheartca_iheartcaredtable";
mysql_connect($dbhost,$dbuser,$dbpass);
mysql_select_db($dbname);

$q = mysql_query ("SELECT * FROM iheartcaredtable") or die
(mysql_error()) ;
@$operasi = $_GET['operasi'];

switch ($operasi) {

// SC buat tampil
case "view":

$stampil = mysql_query("SELECT * FROM iheartcaredtable ") or die
(mysql_error());
$data_array = array();
while($data = mysql_fetch_assoc($stampil)) {
$data_array[] = $data;
}

echo json_encode($data_array);

break;

case "get_data_by_id" :

@$No = $_GET['No'];

$show_by_id = mysql_query("SELECT * FROM iheartcaredtable WHERE No
= '$No'") or die (mysql_error());
$data_array = array();
$data_array = mysql_fetch_assoc($show_by_id);
echo "[" . json_encode($data_array) . "]";

break;

case "delete":

@$No = $_GET['No'];
$query_delete = mysql_query("DELETE FROM iheartcaredtable WHERE No

```

```

= '$No');

if ($query_delete) {
    echo "Delete Data berhasil" ;
} else {
    echo mysql_error();
}
break;

                                default:
                                break;
}
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-
scale=1">
        <title>selamat datang di iheartcare</title>
        <link href="tampil/css/bootstrap.min.css" rel="stylesheet">
    </body>
        <script src="tampil/js/jquery.min.js"></script>
        <script src="tampil/js/bootstrap.min.js"></script>
        <script src="https://code.highcharts.com"></script>
    </head>
    <body>
        <nav class="navbar navbar-default navbar-fixed-top">
            <div class="container-fluid">
                <!-- Brand and toggle get grouped for better mobile display --
                >
                <div class="navbar-header">
                    <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#bs-example-navbar-collapse-1"
aria-expanded="false">
                        <span class="sr-only">Toggle navigation</span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                    </button>
                    <a class="navbar-brand" href="#">Iheartcare</a>
                </div>
                <!-- Collect the nav links, forms, and other content for
                toggling -->
                <div class="collapse navbar-collapse" id="bs-example-navbar-
collapse-1">
                    <ul class="nav navbar-nav navbar-right">
                        <li><a href="#">home</a></li>
                            <li><a href="#">contact</a></li>
                            <li><a href="#">about</a></li>
                        </ul>
                    </div>
                </div>
            </div>
        </nav>
        <div class="container-fluid">
            
        </div>

```

```

<div class="container">
  <!-- Nav tabs -->
  <ul class="nav nav-tabs" role="tablist">
    <li role="presentation" class="active"><a href="#table" aria-
controls="table" role="tab" data-toggle="tab">table</a></li>
    <li role="presentation"><a href="#grafik" aria-
controls="grafik" role="tab" data-toggle="tab">grafik</a></li>
  </ul>
  <!-- Tab panes -->
  <div class="tab-content">
    <div role="tabpanel" class="tab-pane active" id="table">
      <?php
//$q = mysql_query ("SELECT * FROM iheartcaretable") or die
(mysql_error()) ;
//switch (
    echo "<div class='table-responsive'">
    <table class='table'">
      <tr>
        <th>No</th>
        <th>Tanggal</th>
        <th>Detak jantung</th>
        <th>Suhu</th>
        <th>Kondisi</th>
      </tr>";
      while($r=mysql_fetch_array($q)){
        echo"<tr>
        <td>$r[No]</td>
        <td>$r[Date]</td>
        <td>$r[HeartRate]</td>
        <td>$r[Temp]</td>
        <td>$r[Condition]</td>";
      }
    echo "</table>";
  </div>"
  ?>
</div>
  <div role="tabpanel" class="tab-pane" id="grafik">
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.2/jquery.min
.js"></script>
<script src="https://code.highcharts.com/highcharts.js"></script>
<script
src="https://code.highcharts.com/modules/exporting.js"></script>
<div id="container" style="min-width: 310px; height: 400px;
margin: 0 auto"></div>
    <script type="text/javascript">
Highcharts.chart('container', {
  chart: {
    type: 'column'
  },
  title: {
    text: 'Grafik Pengukuran Detak Jantung dan Suhu Tubuh'
  },
  xAxis: {
    categories: [
<?php
$q = mysql_query ("SELECT * FROM iheartcaretable ORDER BY `No`
DESC LIMIT 12") or die (mysql_error()) ;
while($r=mysql_fetch_array($q)){

```

```

echo "'".$r['Date'].",";
}
?>
    ],
    crosshair: true
  },
  yAxis: {
    min: 0,
    title: {
      text: ''
    }
  },
  tooltip: {
    headerFormat: '<span style="font-
size:10px">{point.key}</span><table>',
    pointFormat: '<tr><td
style="color:{series.color};padding:0">{series.name}: </td>' +
      '<td style="padding:0"><b>{point.y:.1f}
mm</b></td></tr>',
    footerFormat: '</table>',
    shared: true,
    useHTML: true
  },
  plotOptions: {
    column: {
      pointPadding: 0.2,
      borderWidth: 0
    }
  },
  series: [{
    name: 'Heart',
    data: [
<?php
$q = mysql_query ("SELECT * FROM iheartcaretable ORDER BY `No`
DESC LIMIT 12") or die (mysql_error()) ;
while($r=mysql_fetch_array($q)){
echo $r['HeartRate'].",";
}
?>
]
    }, {
      name: 'Temp',
      data: [
<?php
$q = mysql_query ("SELECT * FROM iheartcaretable ORDER BY `No`
DESC LIMIT 12") or die (mysql_error()) ;
while($r=mysql_fetch_array($q)){
echo $r['Temp'].",";
}
?>
]
    }
  ]
});
</script>
</div>
</div>
</div>
<div>
<!-- -->
</div>

```

```
<div>
</div>
  </body>
</html>
```

```
<?php
//nclude("koneksi.php");
$dbhost = "localhost";
$dbuser = "iheartca_ihtable";
$dbpass = "rinaldi963369";
$dbname = "iheartca_iheartcasetable";
mysql_connect($dbhost,$dbuser,$dbpass);
mysql_select_db($dbname);
>Date = $_POST['Date'];
>HeartRate = $_POST['HeartRate'];
>Temp = $_POST['Temp'];
>Condition = $_POST['Condition'];
//query menambah data
//keyword Date, No harus pake `Date` `No`
$result = mysql_query("INSERT INTO iheartcasetable(`Date`,
HeartRate, `Temp`, `Condition`)
VALUES ('$Date', '$HeartRate', '$Temp',
'$Condition')") ;
file_put_contents("error.txt", "INSERT INTO
iheartcasetable(`Date`, HeartRate, `Temp`, `Condition`)
VALUES ('$Date', '$HeartRate', '$Temp',
'$Condition')");
echo mysql_error();
echo $result;
?>
```