**import** android.content.DialogInterface;

**import** android.content.Intent;

**import** android.support.v7.app.AlertDialog;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.EditText;

**import** android.widget.TextView;

**import** org.json.JSONException;

**import** org.json.JSONObject;

**import** com.android.volley.Request;

**import** com.android.volley.RequestQueue;

**import** com.android.volley.Response;

**import** com.android.volley.VolleyError;

**import** com.android.volley.toolbox.JsonObjectRequest;

**import** com.android.volley.toolbox.Volley;

**import** java.util.ArrayList;

**import** java.util.HashMap;

**import** java.util.Map;

**public class** MainActivity **extends** AppCompatActivity {

**private** RequestQueue **mQueue**;

**private** String **token** = **null**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**mQueue** = Volley.*newRequestQueue*(**this**);

}

**public void** irMenuPrincipal(View v){

**final** EditText usuario = (EditText) findViewById(R.id.***tx\_usuario***);

**final** EditText password = (EditText) findViewById(R.id.***tx\_pass***);

String str\_usuario = usuario.getText().toString();

String str\_password = password.getText().toString();

iniciarSesion(str\_usuario,str\_password);

}

**private void** iniciarSesion(String usuario, String password){

Map<String, String> params = **new** HashMap();

params.put(**"username"**, usuario);

params.put(**"password"**, password);

JSONObject parametros = **new** JSONObject(params);

String login\_url = **"https://amstdb.herokuapp.com/db/nuevo-jwt"**;

JsonObjectRequest request = **new** JsonObjectRequest(

Request.Method.***POST***, login\_url, parametros,

**new** Response.Listener<JSONObject>() {

@Override

**public void** onResponse(JSONObject response) {

System.***out***.println(response);

**try** {

**token** = response.getString(**"token"**);

Intent menuPrincipal = **new**

Intent(getBaseContext(), menu.**class**);

menuPrincipal.putExtra(**"token"**, **token**);

startActivity(menuPrincipal);

} **catch** (Exception e) {

e.printStackTrace();

}

}

}, **new** Response.ErrorListener() {

@Override

**public void** onErrorResponse(VolleyError error) {

AlertDialog alertDialog = **new**

AlertDialog.Builder(MainActivity.**this**).create();

alertDialog.setTitle(**"Alerta"**);

alertDialog.setMessage(**"Credenciales Incorrectas"**);

alertDialog.setButton(AlertDialog.***BUTTON\_NEUTRAL***, **"OK"**,

**new** DialogInterface.OnClickListener() {

**public void** onClick(DialogInterface dialog, **int**

which) {

}

});

dialog.dismiss();

}

});

alertDialog.show();

**mQueue**.add(request);

}

}

**Archivo: Menu.java**

**package** com.example

.amst02;

**import** android.content.Intent;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**public class** menu **extends** AppCompatActivity { String **token** = **""**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_menu***); Intent login = getIntent();

**this**.**token** = (String)login.getExtras().get(**"token"**);

}

**public void** Salir(View v){ **this**.finish(); System.*exit*(0);

}

**public void** revisarSensores(View v){

Intent red\_sensores = **new** Intent(getBaseContext(),

red\_sensores.**class**); red\_sensores.putExtra(**"token"**, **token**); startActivity(red\_sensores);

}

}

**public class** red\_sensores **extends** AppCompatActivity {

**private** RequestQueue **mQueue**;

**private** String **token** = **""**;

@Override

**protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_red\_sensores***); **mQueue** = Volley.*newRequestQueue*(**this**);

Intent login = getIntent();

**this**.**token** = (String)login.getExtras().get(**"token"**);

revisarSensores();

}

**private void** revisarSensores(){

**final** TextView tempValue = (TextView) findViewById(R.id.***tempVal***); **final** TextView pesoValue = (TextView) findViewById(R.id.***pesoVal***); **final** TextView humedadValue = (TextView)

findViewById(R.id.***humedadVal***);

String url\_temp = **"https://amstdb.herokuapp.com/db/logUno/1"**; JsonObjectRequest request = **new** JsonObjectRequest(

Request.Method.***GET***, url\_temp, **null**,

**new** Response.Listener<JSONObject>() {

@Override

**public void** onResponse(JSONObject response) { System.***out***.println(response);

**try** {

tempValue.setText(response.getString(**"temperatura"**)+ **" C"**);

} **catch** (Exception e) {

e.printStackTrace();

}

}

}, **new** Response.ErrorListener() {

@Override

**public void** onErrorResponse(VolleyError error) {

}

}){

@Override

**public** Map<String, String> getHeaders() **throws** AuthFailureError

{

Map<String, String> params = **new** HashMap<String, String>(); params.put(**"Authorization"**, **"JWT "** + **token**); System.***out***.println(**token**);

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**return** params;

}

};;

**mQueue**.add(request);

String url\_humedad = **"https://amstdb.herokuapp.com/db/logUno/2"**; JsonObjectRequest request\_humedad = **new** JsonObjectRequest(

Request.Method.***GET***, url\_humedad, **null**,

**new** Response.Listener<JSONObject>() {

@Override

**public void** onResponse(JSONObject response) { System.***out***.println(response);

**try** {

humedadValue.setText(response.getString(**"humedad"**)+ **" C"**);

} **catch** (Exception e) {

e.printStackTrace();

}

}

}, **new** Response.ErrorListener() {

@Override

**public void** onErrorResponse(VolleyError error) {

}

}){

@Override

**public** Map<String, String> getHeaders() **throws** AuthFailureError

{

Map<String, String> params = **new** HashMap<String, String>(); params.put(**"Authorization"**, **"JWT "** + **token**); System.***out***.println(**token**);

**return** params;

};;

}

**mQueue**.add(request\_humedad);

String url\_peso = **"https://amstdb.herokuapp.com/db/logUno/3"**;

JsonObjectRequest request\_peso = **new** JsonObjectRequest( Request.Method.***GET***, url\_peso, **null**,

**new** Response.Listener<JSONObject>() {

@Override

**public void** onResponse(JSONObject response) { System.***out***.println(response);

**try** {

pesoValue.setText(response.getString(**"peso"**)+ **"**

**C"**);

} **catch** (Exception e) {

e.printStackTrace();

}

}

}, **new** Response.ErrorListener() {

@Override

**public void** onErrorResponse(VolleyError error) {

}

}){

@Override

**public** Map<String, String> getHeaders() **throws** AuthFailureError

{

Map<String, String> params = **new** HashMap<String, String>(); params.put(**"Authorization"**, **"JWT "** + **token**); System.***out***.println(**token**);

**return** params;

};;

}

**mQueue**.add(request);

}

}