



Universidad Nacional  
Jorge Basadre Grohmann



# PROGRAMACIÓN PARA DISPOSITIVOS MÓVILES: ANDROID

## Parte V

**MSc. ING. WILSON CÉSAR CALLISAYA CHOQUECOTA**

# TEMARIO

- Montar un Servidor para interactuar con cliente Android
- Ejemplo usando login con internet
- Inserción y visualización de resultados
- Publicación en la Play Store

# Detalles de server

<https://es.000webhost.com/>



SALE

Cheap Web Hosting  
POWERED BY HOSTINGER

Website Builder Forum

EN ⌂

SIGN IN



BLACK FRIDAY DEAL

# Free Web Hosting

Zero cost website hosting with PHP,  
MySQL, cPanel & no ads!

FREE SIGN UP

GO PREMIUM



PREMIUM HOSTING  
BLACK FRIDAY SALE

00 16 43 29  
DAYS HOURS MINUTES SECONDS

GET STARTED



My Sites

Power Store

Help



BLACK FRIDAY DEAL



ingwilsonmobil

# My Websites

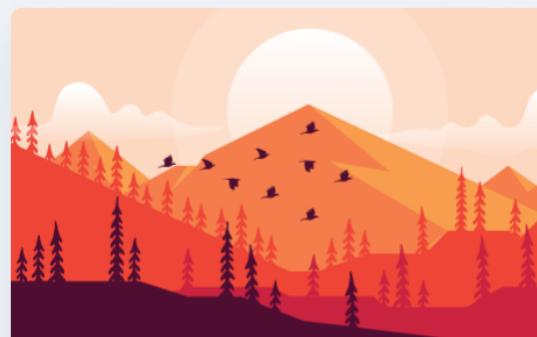
Select a website to manage, or create a new one from scratch.

+ Create New Site



miprimerserver

● Status: archived



miserver1234555

Upgrade

● Status: running

H  
BLACK  
FRIDAY SALE

Go Premium



PREMIUM HOSTING  
BLACK FRIDAY SALE

00 DAYS 09 HOURS 42 MINUTES 25 SECONDS

GET STARTED



Escribe aquí para buscar



14:17  
29/11/2019

3

**miserver123455**

Current site | Free

**Dashboard**

**Tools**

**Website Settings**

**Community Help**

**Earn Money**

**Learn to Code**

**Customer Support**

Monthly Bandwidth Quota (10 000 MB) 0% USED

Disk Space Quota (1000 MB) 0% USED

Inode Usage Quota (20 000) 0.03% USED

Sendmail Daily Quota (50) 0% USED

**Website**

- Website Builder
- Install WordPress
- Error Pages
- SEO Toolkit
- Learn to Code
- Earn Money

**Files**

**PREMIUM HOSTING BLACK FRIDAY SALE**

00 DAYS 09 HOURS 40 MINUTES 13 SECONDS

**GET STARTED**

HOSTINGER

https://www.000webhost.com/members/#

Escribe aquí para buscar

Windows icon

Chrome icon

File icon

Microsoft Word icon

Microsoft Excel icon

Microsoft PowerPoint icon

Microsoft OneNote icon

FileZilla icon

Android icon

Cloud icon

Speaker icon

Power icon

ESP icon

14:19

29/11/2019

**miserver1234555**

Current site | Free

◀ Home

**Tools**

- Set Web Address
- File Manager
- Database Manager
- Email Manager

Monthly Bandwidth Quota (10 000 MB)

Disk Space Quota (1000 MB)

Inode Usage Quota (20 000)

Sendmail Daily Quota (50)

0% USED

0% USED

0.03% USED

0% USED

**Website**

-  Website Builder
-  Install WordPress
-  Error Pages
-  SEO Toolkit
-  Learn to Code
-  Earn Money

**Files**



PREMIUM HOSTING  
BLACK FRIDAY SALE

00 DAYS 09 HOURS 38 MINUTES 44 SECONDS

GET STARTED

<https://www.000webhost.com/members/website/miserver1234555/database>

## Creamos una nueva Base de datos

The screenshot shows the 000webhost.com website interface. The top navigation bar includes links for "My Sites", "Power Store", and "Help". The 000webhost logo is on the left, and a "BLACK FRIDAY DEAL" button is on the right. The user is logged in as "ingwilsonmobil". The main content area shows the "miserver1234555" site, which is currently free. A sidebar on the left lists "Tools" such as "Set Web Address", "File Manager", "Database Manager" (which is underlined), and "Email Manager". The main panel displays "My Databases" with a table showing one entry: "id11378865\_dbandroi d" (DB Name), "id11378865\_dbuser" (DB User), and "localhost" (DB Host). A "Manage" dropdown menu is open for this database, listing options like "PhpMyAdmin", "Change Password", and "Delete DB". Below the table, it shows "DB Size: 0 MB" and "DB Tables: 1". To the right, a "Database Manager" section explains that users can create and manage databases, mentioning a 1GB space limit and a 200-table limit. At the bottom, there's a "PREMIUM HOSTING BLACK FRIDAY SALE" banner with a timer showing 00 days, 09 hours, 37 minutes, and 52 seconds, and a "GET STARTED" button. The taskbar at the bottom includes icons for various applications like Google Chrome, Microsoft Word, and File Explorer.

All websites > Miserver1234555

**miserver1234555**  
Current site | Free

◀ Home

**Tools**

Set Web Address

File Manager

**Database Manager**

Email Manager

**My Databases**

+ New Database 1/2

DB Name	DB User	DB Host
id11378865_dbandroi d	id11378865_dbuser	localhost

Manage ▾

- PhpMyAdmin
- Change Password
- Delete DB

• DB Size: 0 MB  
• DB Tables: 1

**Database Manager**

Here you can create and manage all your databases.

- Database Space Limit: 1GB
- Database Table Limit: 200 Tables
- Manage your database at [databases.000webhost.com](https://databases.000webhost.com)
- Use localhost as a connection hostname.

**PREMIUM HOSTING**  
**BLACK FRIDAY SALE**

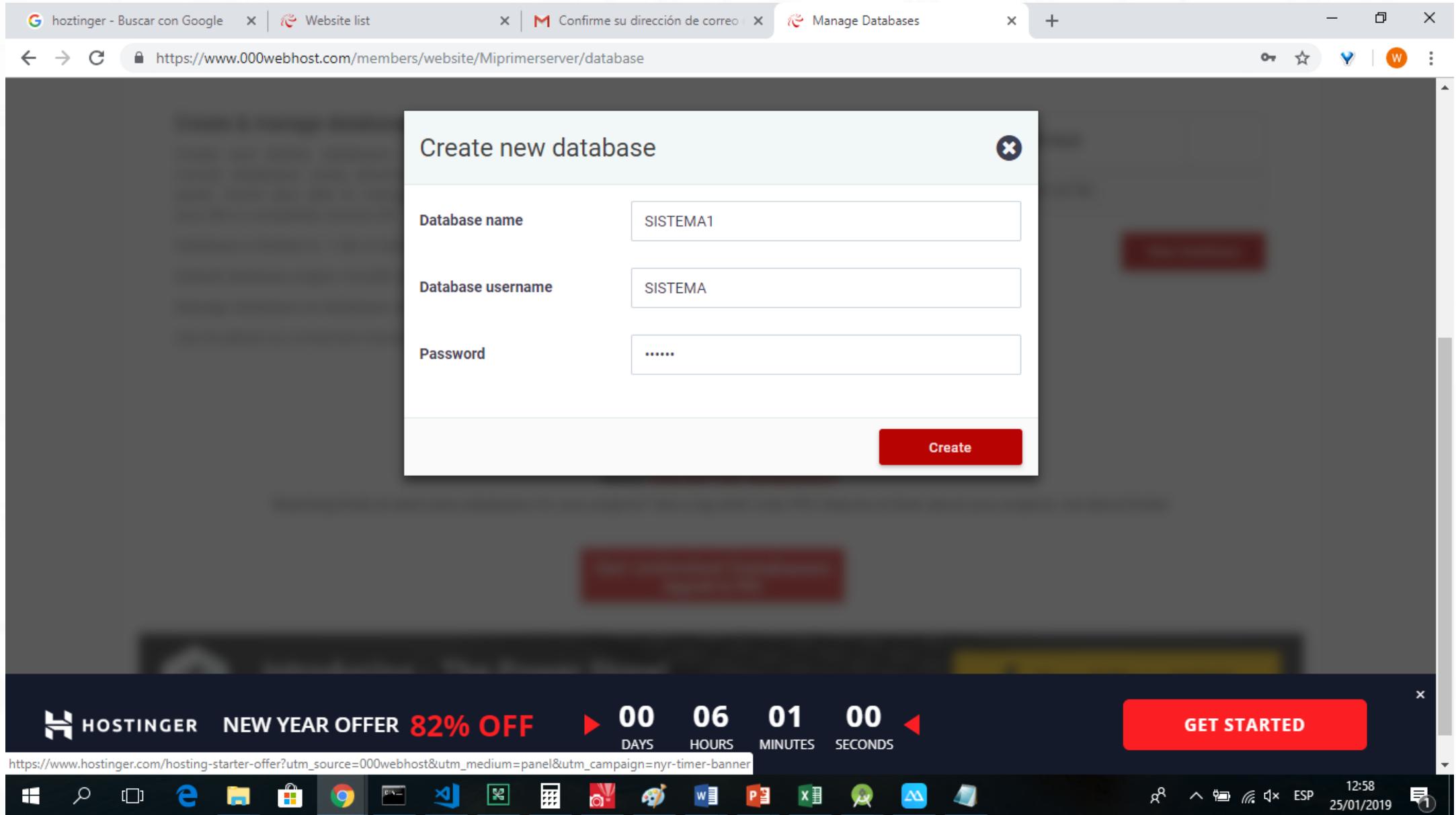
00 DAYS 09 HOURS 37 MINUTES 52 SECONDS

GET STARTED

Escribe aquí para buscar

Windows Taskbar icons: Chrome, Word, Excel, Powerpoint, Edge, File Explorer, etc.

14:22 29/11/2019



https://es.000webhost.com/members/website/miprimerserver/database

## Create & manage databases

Create new MySQL databases or manage your current databases using advanced PhpMyAdmin panel. You're also able to change passwords for your DB or completely remove DB.

Database is limited to: 1 GB of data and 150 tables.  
Default database engine: InnoDB on MariaDB 10.1  
Manage databases at [databases.000webhost.com](#)  
Use localhost as connection hostname

DB Name	DB User	DB Host	
id8562485_base1	id8562485_sistema	localhost	<a href="#">Manage</a>

**PhpMyAdmin**  
[Change Password](#)  
[Delete DB](#)

● DB Size: 0 MB  
● DB Tables: 0

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**H HOSTINGER** NEW YEAR OFFER **82% OFF**

00 DAYS 04 HOURS 50 MINUTES 53 SECONDS

**GET STARTED**

javascipt:

## Procura apuntar a su BD

The screenshot shows the phpMyAdmin interface running in a web browser. The URL in the address bar is [https://databases-auth.000webhost.com/db\\_sql.php?db=id8562485\\_base1&token=e0190024da2098bdeb1e05f355851970](https://databases-auth.000webhost.com/db_sql.php?db=id8562485_base1&token=e0190024da2098bdeb1e05f355851970). The browser tabs at the top include 'hosting', 'Manager', 'PMA database', 'Confirm', 'File Ma...', '000wel...', 'https://...', 'logomi...', 'PMA database', 'Error 40...', 'Web Ho...', and a '+' button.

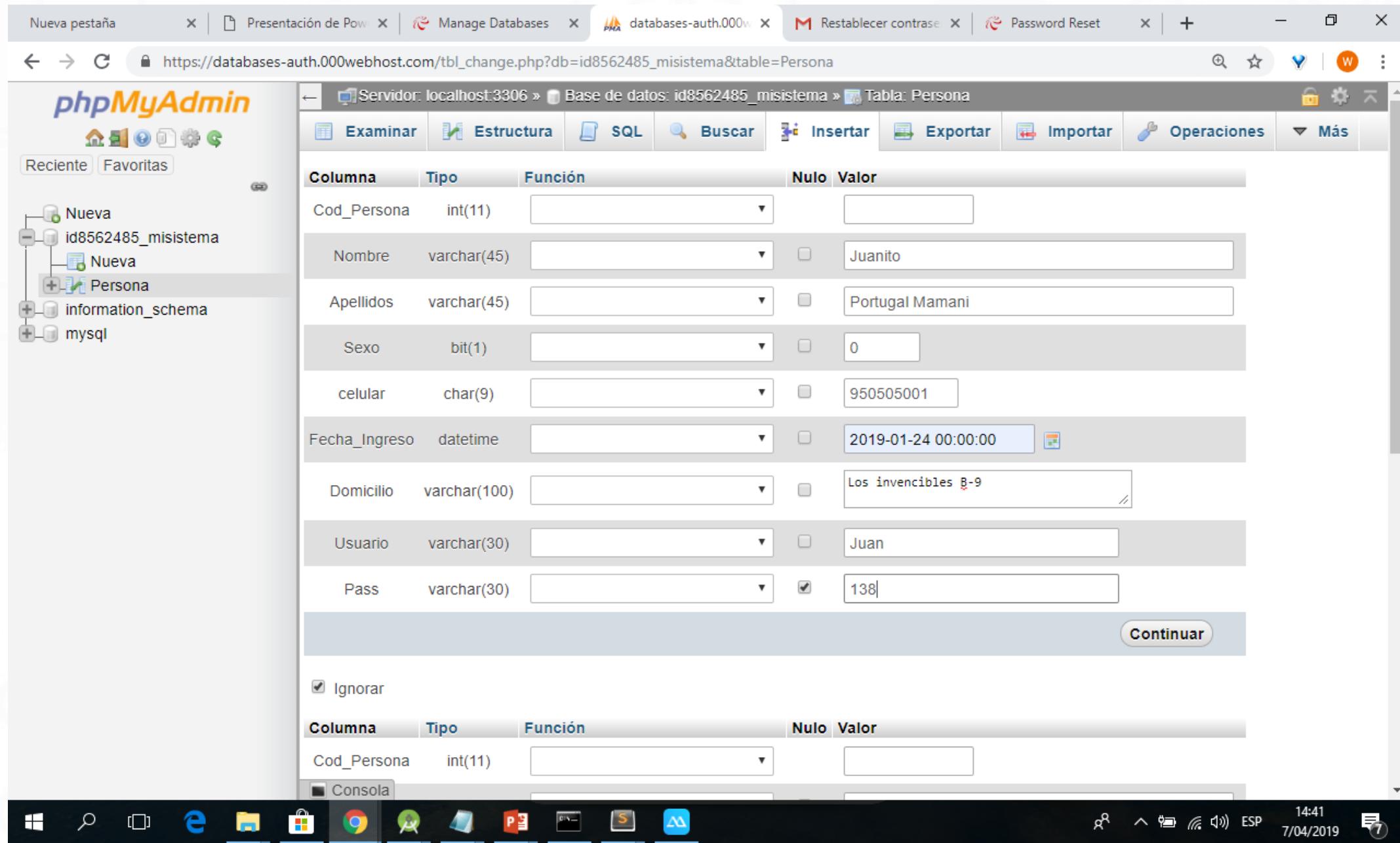
The main window displays the 'Estructura' (Structure) tab for the database 'id8562485\_base1'. The left sidebar shows the database structure with tables 'Nueva', 'id8562485\_base1' (containing 'Nueva' and 'Persona'), 'information\_schema', and 'mysql'. The central area contains a large text input field for SQL queries, with the placeholder text 'Ejecutar la(s) consulta(s) SQL en la base de datos id8562485\_base1'. Below this are buttons for 'Limpiar' (Clear), 'Formato' (Format), 'Obtener consulta almacenada automáticamente' (Get stored query automatically), and 'Enlazar parámetros' (Link parameters). At the bottom, there are checkboxes for 'Mostrar esta consulta otra vez' (Show this query again), 'Mantener la caja de texto con la consulta' (Keep the text box with the query), 'Deshacer («rollback») al finalizar' (Undo («rollback») at end), and 'Habilite la revisión de las claves foráneas' (Enable foreign key check). A 'Continuar' (Continue) button is located to the right of these checkboxes. The bottom status bar shows the URL again and the system tray with various icons.

Ponemos esta consulta y presionamos continuar para crear nuestra tabla

```
CREATE TABLE Persona(  
    Cod_Persona INT NOT NULL PRIMARY KEY  
    AUTO_INCREMENT,  
    Nombre VARCHAR(45) NULL,  
    Apellidos VARCHAR(45) NULL,  
    Sexo BIT NULL,  
    celular CHAR(9) NULL,  
    Fecha_Ingreso DATETIME NULL,  
    Domicilio VARCHAR(100) NULL,  
    Usuario VARCHAR(30) NULL,  
    Pass VARCHAR(30) NULL  
);
```

## Presionamos Insertar

The screenshot shows the phpMyAdmin interface for a MySQL database named 'id8562485\_misistema'. The current table is 'Persona'. A red box highlights the 'Insertar' (Insert) button in the top navigation bar. A green message box indicates that MySQL returned an empty result set. Below the message, there is a SQL query: 'SELECT \* FROM `Persona`'. The table structure for 'Persona' is shown with columns: Cod\_Persona, Nombre, Apellidos, Sexo, celular, Fecha\_Ingreso, Domicilio, Usuario, and Pass. At the bottom, there is an 'Operaciones sobre los resultados de la consulta' (Operations on the query results) section with a 'Crear vista' (Create view) button. The browser's address bar shows the URL: 'https://databases-auth.000webhost.com/tbl\_change.php?db=id8562485\_misistema&table=Persona'. The system tray at the bottom right shows the date and time as 14:37, 7/04/2019.



My Sites | Power Store | Help

000webhost  
powered by HOSTINGER

BLACK FRIDAY DEAL

All websites > Miserver1234555

**miserver1234555**

Current site | Free

◀ Home

**Tools**

Set Web Address

**File Manager**

Database Manager

Email Manager

Fast, Easy & Secure File Upload

Click the button below to access file manager.

Upload Files

Did you know that you can upload multiple files much easier and faster with FTP absolutely for free? [Let's do it](#)

HOSTINGER

PREMIUM HOSTING  
BLACK FRIDAY SALE

00 DAYS 09 HOURS 35 MINUTES 58 SECONDS

GET STARTED

https://www.000webhost.com/members/website/miserver1234555/files

Escribe aquí para buscar

Windows icon

14:24 29/11/2019

## login.php

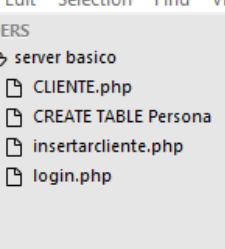
```
<?php
define('HOST','localhost');
define('USER','id8562485_sistema');
define('PASS','1234567890');
define('DB','id8562485_base1');
$con = mysqli_connect(HOST,USER,PASS,DB);
$username = $_GET['Usuario'];
$password = $_GET['pass'];
$sql = "select * from Persona where Usuario='$username' and
pass='$password'";
$res = mysqli_query($con,$sql);
$check = mysqli_fetch_array($res);
if(isset($check)){
    echo 'success';
} else{
    echo 'failure';
}
mysqli_close($con);
?>
```

## insertarcliente.php

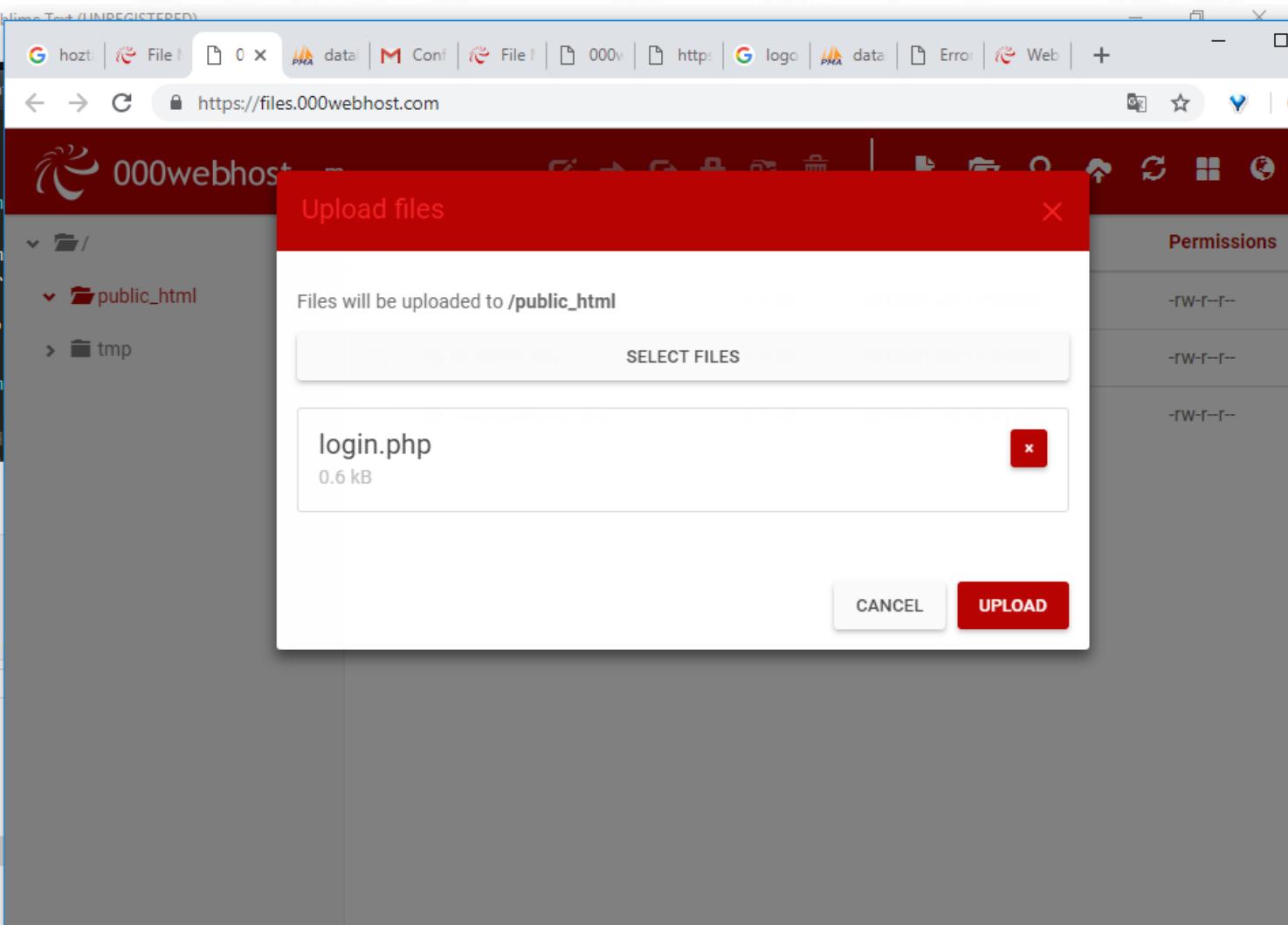
```
<?php
$con = new mysqli('localhost', 'id8562485_sistema', '1234567890', 'id8562485_base1');
if ($con->connect_errno) {
echo 'Error al conectar base de datos: ', $con->connect_error;
exit();
}
$nombre = htmlspecialchars($_GET['nombre']);
$apellido = htmlspecialchars($_GET['apellido']);
$direccion = htmlspecialchars($_GET['direccion']);
$telefono = htmlspecialchars($_GET['telefono']);
$sexo = $_GET['sexo'];
$sql = $con->prepare('INSERT INTO Persona ( Nombre, Apellidos, Sexo, celular, Domicilio) VALUES
(?, ?, ?, ?, ?)');
$sql->bind_param('ssiss', $nombre, $apellido, $sexo, $telefono, $direccion);
$sql->execute();
echo 'OK\n';
;
$con->close();
?>
```

## clientes.php

```
<?php
define('HOST','localhost');
define('USER','id8562485_sistema');
define('PASS','1234567890');
define('DB','id8562485_base1');
$con = mysqli_connect(HOST,USER,PASS,DB);
$sql = "SELECT Cod_persona, Nombre, Apellidos FROM `Persona` ORDER BY Nombre DESC ";
$res = mysqli_query($con,$sql);
$jsonData = array();
while ($array = mysqli_fetch_array($res)) {
    $row_array['Cod_persona'] = $array['Cod_persona'];
    $row_array['Nombre'] = $array['Nombre'];
    $row_array['Apellidos'] = $array['Apellidos'];
    array_push($jsonData,$row_array);
}
echo json_encode($jsonData);
mysqli_close($con);
?>
```



```
4 define('
5 define('
6
7 $con =
8
9 $username =
10 $password =
11
12 $sql =
13
14 $res =
15 /*
16 echo $sql;
17 if($res)
```



https://files.000webhost.com

# 000webhost

	Name	Size	Date	Permissions
<input type="checkbox"/>	.htaccess	0.2 kB	2019-01-25 17:56:00	-rw-r--r--
<input type="checkbox"/>	CLIENTE.php	0.8 kB	2019-01-25 18:48:00	-rw-r--r--
<input type="checkbox"/>	insertarcliente.php	0.9 kB	2019-01-25 18:57:00	-rw-r--r--
<input type="checkbox"/>	login.php	0.6 kB	2019-01-25 19:16:00	-rw-r--r--

14:17  
25/01/2019

Nueva pestaña | Presentación | File Manager | 000webhost | https://mipri | databases-al | Restablecer | Password Re | + | - | X

https://files.000webhost.com

000webhost

View

	Name ▾	Size	Date	Permissions
<input type="checkbox"/>	iquitos		2019-02-03 21:05:00	drwxr-xr-x
<input type="checkbox"/>	.htaccess	0.2 kB	2019-01-25 17:56:00	-rw-r--r--
<input checked="" type="checkbox"/>	CLIENTE.php	0.8 kB	2019-01-25 18:48:00	-rw-r--r-
<input type="checkbox"/>	insertarcliente.php	0.9 kB	2019-02-03 21:24:00	-rw-r--r--
<input type="checkbox"/>	login.php	0.6 kB	2019-01-25 19:24:00	-rw-r--r--

Windows Start | Search | Task View | Edge | File Explorer | Google Chrome | File Manager | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Microsoft Paint | Microsoft Snipping Tool | Microsoft Edge | Task View | 14:56 7/04/2019

<https://miprimerserver.000webhostapp.com/clientes.php>

[https://miprimerserver.000webhostapp.com/insertarcliente.php  
p?nombre=Mario&apellido=Vasquez&sexo=0&telefono=952000243&direccion=rodriguez1000](https://miprimerserver.000webhostapp.com/insertarcliente.php?nombre=Mario&apellido=Vasquez&sexo=0&telefono=952000243&direccion=rodriguez1000)

<https://miprimerserver.000webhostapp.com/login.php?Usuario=Juantest&pass=123456>

# Cliente Android

MSc. Ing. Wilson César Callisaya Choquecota

# Cliente Android

Login

CREAMOS UN PROYECTO CON LOS VALORES POR DEFECTO (Empty Activity)  
CREAMOS LA ACTIVIDAD MiLogin  
AÑADIMOS LA CATEGORIA DE LAUNCHER A MiLogin

Añadimos el siguiente PERMISO

```
<uses-permission android:name="android.permission.INTERNET" />
```

Modificamos String.xml con nuestras rutas

```
<resources>
    <string name="app_name">Parte5</string>
    <string name="dominio">https://miprimerserver.000webhostapp.com</string>
    <string name="login">/login.php?Usuario=</string>
    <string name="insertarcliente">/insertarcliente.php?</string>
    <string name="vercliente">/CLIENTE.php</string>
</resources>
```

Modificamos MiLogin.class

```
public class MiLogin extends AppCompatActivity {
    HttpURLConnection conexion;
    private EditText Login;
    private EditText password;
    private SharedPreferences prefs;
    private SharedPreferences.Editor editor;
    private boolean login;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        prefs= getSharedPreferences("Config", MODE_PRIVATE);
        login = prefs.getBoolean("onlogin", false);
        if (login) {
            startActivity(new Intent(this, MainActivity.class));
            finish();
        }
        setContentView(R.layout.activity_mi_login);
        StrictMode.setThreadPolicy(new StrictMode.ThreadPolicy.Builder(). permitNetwork().build());
        Login = (EditText) findViewById(R.id.edtUsuario);
        password = (EditText) findViewById(R.id.edtPassword);
    }
}
```

Modificamos MiLogin.class

```
public int ValidaDatos(String usuario, String pass) {
    int result=3;
    try {
        URL url=new URL(getString(R.string.dominio)+getString(R.string.login)+usuario+"&pass="+pass);
        conexion = (HttpURLConnection) url
            .openConnection();
        if (conexion.getResponseCode() == HttpURLConnection.HTTP_OK) {
            BufferedReader reader = new BufferedReader(new InputStreamReader(conexion.getInputStream()));
            String linea = reader.readLine();
            if (linea.equals("success"))
                result=0;
            else
                result=1;
        } else {
            Log.e("mierror", conexion.getResponseMessage());
        }
    } catch (Exception e) {
        Log.e("mierror", e.getMessage(), e);
    } finally {
        if (conexion!=null) conexion.disconnect();
        return result;
    }
}
```

Modificamos MiLogin.class

```
public void onLogin(View view) {
    int V = ValidaDatos(Login.getText().toString(), password.getText().toString());
    if (V == 0) {
        editor = prefs.edit();
        editor.putBoolean("onlogin", true);
        editor.apply();
        Intent i = new Intent(this, MainActivity.class);
        startActivity(i);
        finish();
    } else
        Toast.makeText(this, "Ingreso Fallido", Toast.LENGTH_SHORT).show();
}
```

Modificamos activity\_mi\_login.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal"
    android:gravity="center"
    android:background="#ffecff14">
    <ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <LinearLayout 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:orientation="vertical"
            android:background="#ffecff14"
            android:gravity="center"
            tools:context=".MainActivity">
            <EditText
                android:layout_height="45dp"
                android:layout_width="220dp"
                android:imeOptions="actionNext|flagNoExtractUi"
                android:hint="Usuario"
                android:id="@+id/editUsuario"
                android:inputType="textWebEmailAddress" />
            <EditText
                android:layout_height="45dp"
                android:layout_width="220dp"
                android:imeOptions="actionDone"
                android:hint="password"
                android:inputType="textPassword"
                android:id="@+id/editPassword"
                />
            <Button
                android:layout_height="45dp"
                android:layout_width="220dp"
                android:text="Ingresar"
                android:id="@+id/btnLogin"
                android:onClick="onLogin"/>
        </LinearLayout>
    </ScrollView>
</LinearLayout>
```

# Cliente Android

**Ver a los clientes – RecyclerView**



- Welcome to VoicIn  
**The VoicIn** De hace 190 días  
VoicIn Headquarters
- 
- Necesitas que te ayude?  
**Support** De hace 173 días  
VoicIn Headquarters, Barcelona, Spain
- 
- Jose L.** De hace 93 días

# Pasos

- 1. Diseñar un Layout que contiene el RecyclerView.
- 2. Implementar la actividad que lo visualice el RecyclerView.
- 3. Diseñar un layout individual que se repetirá en la lista.
- 4. Personalizar cada una de los layouts individuales según nuestros datos utilizando un adaptador.
- 5. Definir como queremos que se posicione los elementos en las vistas. Por ejemplo en forma de lista o de cuadricula.

## Modificamos Gradle

```
android {  
    compileSdkVersion 28  
    useLibrary 'org.apache.http.legacy'  
    defaultConfig {  
        ...  
        ...  
  
        dependencies {  
            implementation fileTree(dir: 'libs', include: ['*.jar'])  
            implementation 'androidx.appcompat:appcompat:1.0.2'  
            implementation 'androidx.constraintlayout:constraintlayout:1.1.3'  
            testImplementation 'junit:junit:4.12'  
            androidTestImplementation 'androidx.test:runner:1.1.1'  
            androidTestImplementation 'androidx.test.espresso:espresso-core:3.1.1'  
            implementation 'androidx.recyclerview:recyclerview:1.0.0'  
        }  
    }  
}
```

# Crear el layout minuevoitem.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:paddingTop="4dp"
    android:paddingBottom="4dp"
    android:orientation="horizontal">

    <ImageView
        android:id="@+id/icono"
        android:layout_width="?android:attr/listPreferredItemHeight"
        android:layout_height="wrap_content"
        android:src="@mipmap/ic_launcher" />
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <TextView android:id="@+id/titulo"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textAppearance="?android:attr/textAppearanceLarge"
            />
        <TextView android:id="@+id/subtitulo"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Otro Texto"
            android:gravity="center"/>
        <Button
            android:id="@+id/mibotonitem"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="miboton"
            android:visibility="gone"
            />
    </LinearLayout>
</LinearLayout>
```

# Crear la clase – MiNuevoAdaptador.class

```
public class MiNuevoAdaptador extends
    RecyclerView.Adapter<MiNuevoAdaptador.ViewHolder> {
    private LayoutInflator inflador;
    private Vector<String> lista;
    public MiNuevoAdaptador(Context context, Vector<String> lista) {
        this.lista = lista;
        inflador = (LayoutInflator) context
            .getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    }
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View v = inflador.inflate(R.layout.minuevoitem, parent, false);
        return new ViewHolder(v);
    }
    @Override
    public void onBindViewHolder(ViewHolder holder, int i) {
        holder.titulo.setText(lista.get(i));
    }
    @Override
    public int getItemCount() {
        return lista.size();
    }
    public class ViewHolder extends RecyclerView.ViewHolder {
        public TextView titulo, subtituto;
        public ImageView icon;
        ViewHolder(View itemView) {
            super(itemView);
            titulo = (TextView)itemView.findViewById(R.id.titulo);
            subtituto = (TextView)itemView.findViewById(R.id.subtituto);
            icon = (ImageView)itemView.findViewById(R.id.icono);
        }
    }
}
```

# Pasos – Cambiamos activity\_main.xml

```
<androidx.recyclerview.widget.RecyclerView  
    xmlns:android="http://schemas.android.com/apk/res/android"  
    android:id="@+id/recycler_view"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_marginLeft="10dp"  
    android:layout_marginRight="10dp"/>
```

# Pasos – MainActivity.class

```
public class MainActivity extends AppCompatActivity {
    private RecyclerView recyclerView;
    private RecyclerView.LayoutManager layoutManager;
    private MiNuevoAdaptador adaptador;
    private Vector<String> misdatos;
    public Vector<String> valor;
    private String res;
    HttpURLConnection conexion;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        recyclerView = findViewById(R.id.recycler_view);
        misdatos = new Vector<String>();
        misdatos.add("123000 Wilson Callisaya");
        misdatos.add("123000 Pepito Domingez");
        adaptador = new MiNuevoAdaptador(this,
            misdatos);
        /*
        adaptador = new MiNuevoAdaptador(this,
            ListaClientes(8));
        */
        recyclerView.setAdapter(adaptador);
        layoutManager = new LinearLayoutManager(this);
        recyclerView.setLayoutManager(layoutManager);
    }
}
```

# PROBEMOS SU FUNCIONAMIENTO

# Creamos la clase Cliente.class

```
public class Cliente {  
    private String codigo;  
    private String nombre;  
    private String Apellido;  
  
    public Cliente(String codigo, String nombre, String Apellido) {  
        this.codigo = codigo;  
        this.nombre = nombre;  
        this.Apellido= Apellido;  
    }  
  
    public String getcodigo() {  
        return codigo;  
    }  
  
    public String getNombre() {  
        return nombre;  
    }  
  
    public String getApellido() {  
        return Apellido;  
    }  
}
```

# Añadimos al final del MainActivity.class

```
//USANDO JSON
public Vector<String> ListaClientes(int cantidad) {
    List<Cliente> clientes;
    clientes= leerJSON(conseguirstring());
    valor=new Vector<>();
    Vector<String> salida = new Vector<>();
    for (Cliente cliente : clientes) {
        salida.add(cliente.getNombre() + " " + cliente.getApellido());
        valor.add(cliente.getcodigo());
    }
    Log.i("mierror",salida.toString());
    return salida;
}
public String conseguirstring() {
    try {
        String miurl= this.getString(R.string.dominio)+this.getString(R.string.vercliente);
        URL url=new URL(miurl);
        conexion = (HttpURLConnection) url.openConnection();
        if (conexion.getResponseCode() == HttpURLConnection.HTTP_OK) {
            BufferedReader reader = new BufferedReader(new InputStreamReader(conexion.getInputStream()));
            String linea = reader.readLine();
            res=linea;
        } else {
            Log.e("mierror", conexion.getResponseMessage());
        }
    } catch (Exception e) {
        return res="";
    } finally {
        if (conexion!=null) conexion.disconnect();
    }
    return res;
}
```

# Añadimos al final del MainActivity.class

```
private List<Cliente> leerJson(String string) {
    List<Cliente> Clientes = new ArrayList<>();
    try {
        JSONArray json_array = new JSONArray(string);
        for (int i = 0; i < json_array.length(); i++) {
            JSONObject objeto = json_array.getJSONObject(i);
            Clientes.add(new Cliente(objeto.getString("Cod_persona"), objeto.getString("Nombre"), objeto.getString("Apellidos")));
        }
    } catch (JSONException e) {
        e.printStackTrace();
    }
    return Clientes;
}
```

## Cambiamos en el oncreate

```
/*
    adaptador = new MiNuevoAdaptador(this,
    misdatos);*/
adaptador = new MiNuevoAdaptador(this,
ListaClientes(8));
```

# Para Android 9 Añadimos en el manifest dentro de application

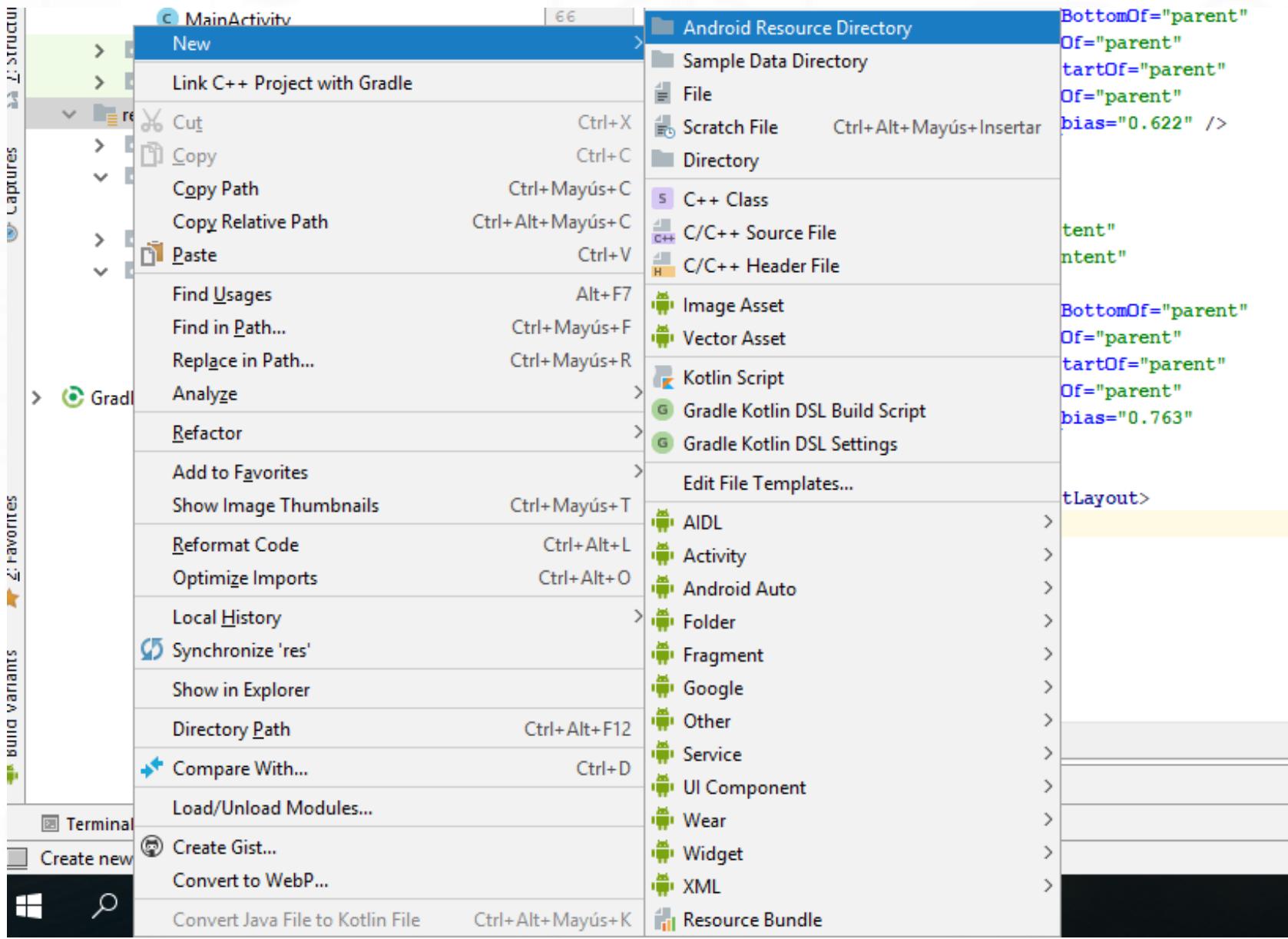
```
<uses-library  
    android:name="org.apache.http.legacy"  
    android:required="false" />
```

# Cliente Android

**Insertando un cliente**

Creamos la Actividad InsertarCliente

Creamos un menú para iniciar la actividad insertar cliente



New Resource Directory X

Directory name: menu

Resource type: menu

Source set: main

Available qualifiers:

-  Country Code
-  Network Code
-  Locale
-  Layout Direction
-  Smallest Screen Width
-  Screen Width
-  Screen Height
-  Size
-  Ratio
-  Orientation
-  UI Mode
-  Night Mode
-  Density
-  Touch Screen

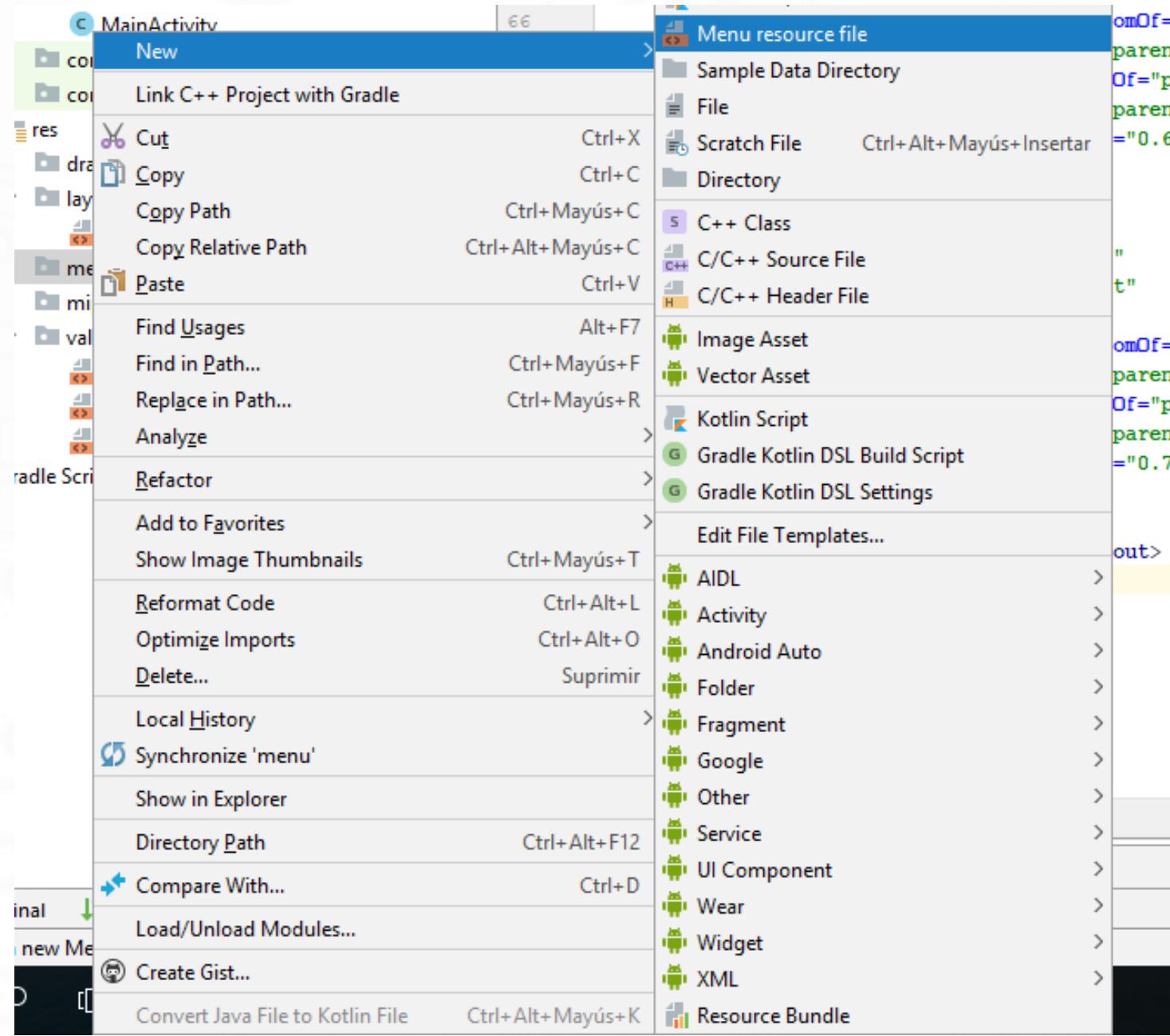
Chosen qualifiers:

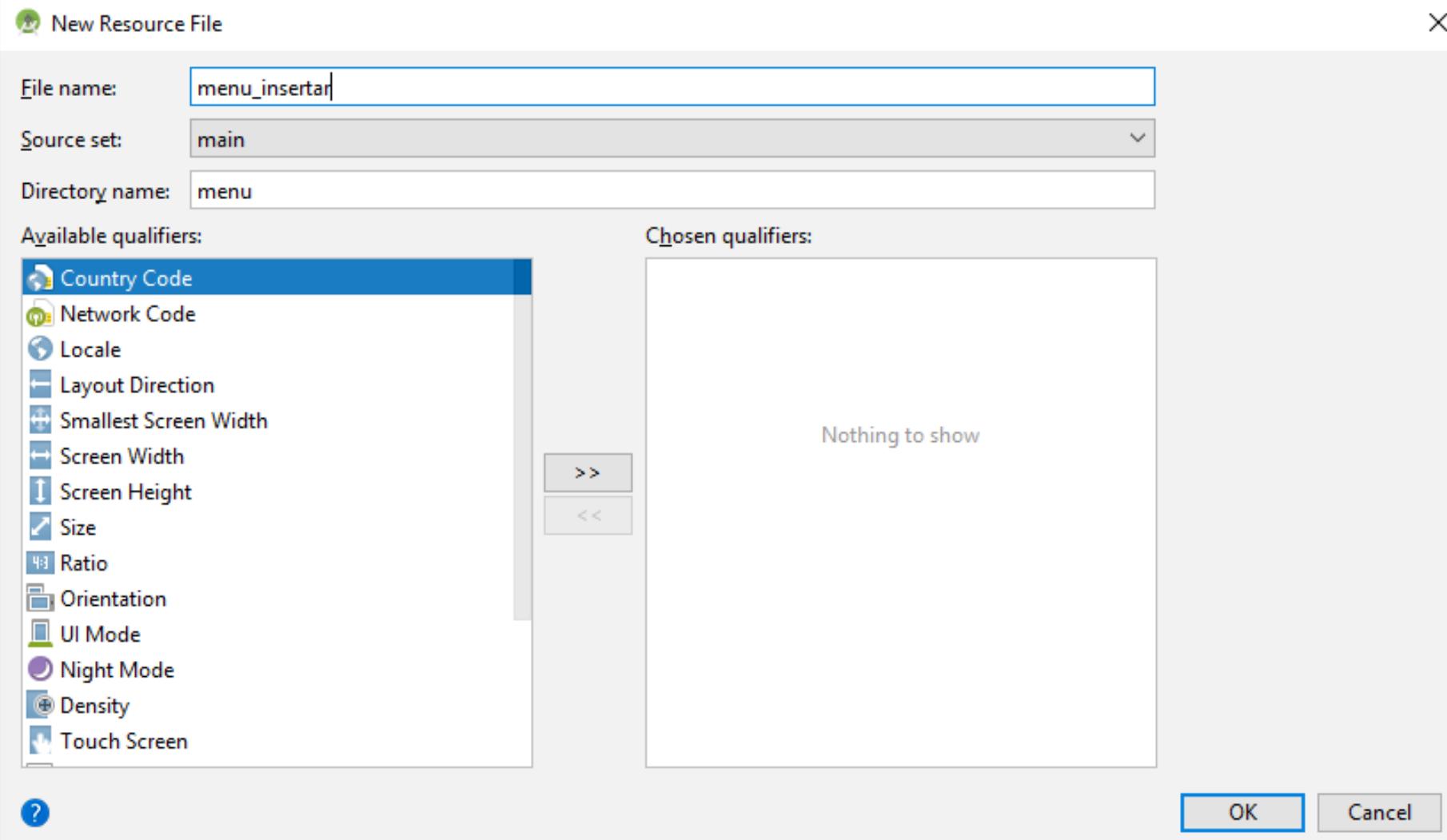
>>

<<

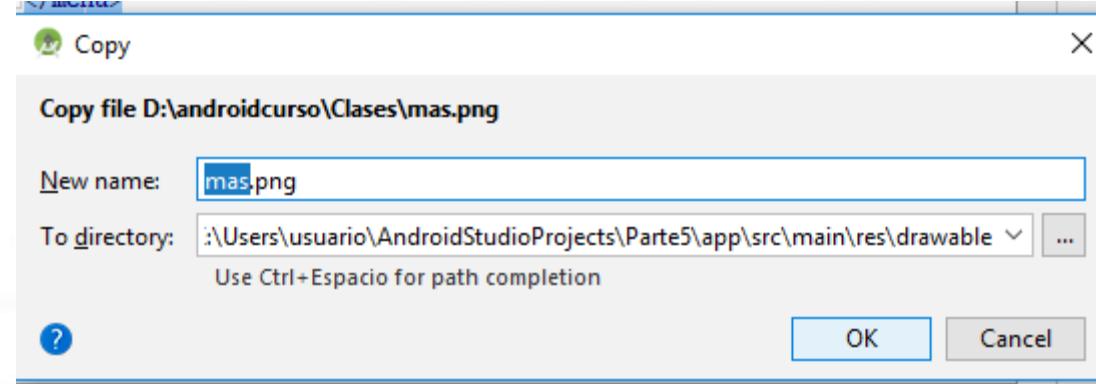
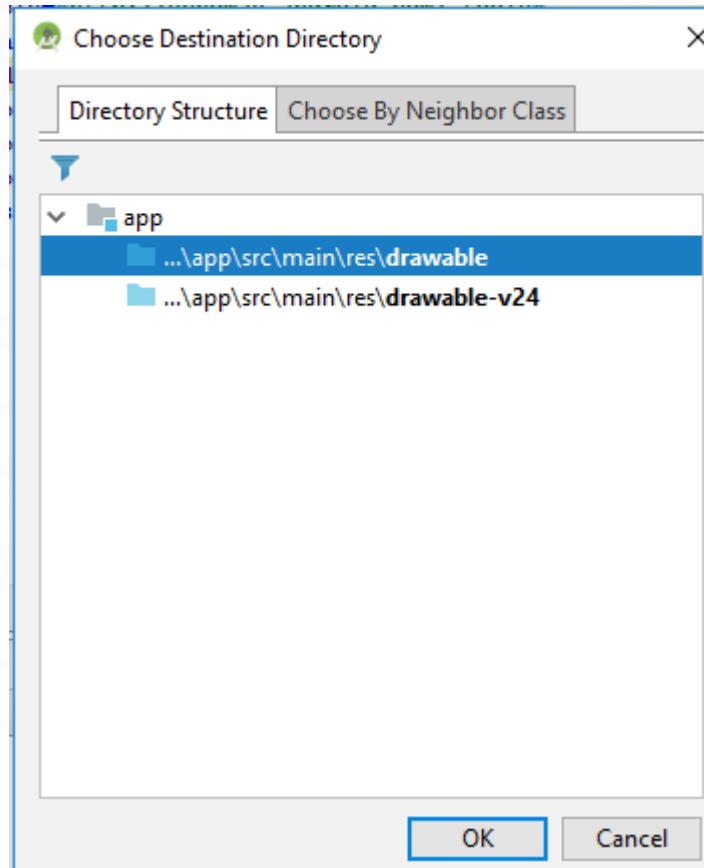
Nothing to show

OK Cancel





# Añadimos el drawable



# Modificamos menu\_insertar.xml

```
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context=".MainActivity">
    <item android:title="Insertar"
        android:id="@+id/menu_insertar"
        android:icon="@drawable/mas"
        android:orderInCategory="115"
        app:showAsAction="always|collapseActionView"/>
</menu>
```

# Añadimos al final del MainActivity.class

```
@Override  
public boolean onCreateOptionsMenu(Menu menu) {  
    getMenuInflater().inflate(R.menu.menu_insertar, menu);  
    return true;  
}  
@Override  
public boolean onOptionsItemSelected(MenuItem item) {  
    switch (item.getItemId()) {  
  
        case R.id.menu_insertar:  
            startActivity(new Intent(this, InsertarCliente.class));  
            return true;  
        default:  
            return super.onOptionsItemSelected(item);  
    }  
}
```

## activity\_insertar\_cliente.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.NestedScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >
        <TextView
            android:id="@+id/t_nombre"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Nombre:"
            android:textAppearance="?android:attr/textAppearanceMedium" />
        <EditText
            android:id="@+id/nombre"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/t_nombre"
            android:hint="Nombres del cliente" >
            <requestFocus/>
        </EditText>
        <TextView
            android:id="@+id/t_Apellido"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/nombre"
            android:text="Apellidos:"
            android:textAppearance="?android:attr/textAppearanceMedium" />
        <EditText
            android:id="@+id/apellido"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/t_Apellido"
            android:hint="Apellidos del cliente" >
            <requestFocus/>
        </EditText>
```

## activity\_insertar\_cliente.xml

```
<TextView  
    android:id="@+id/t_tipo"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_below="@id/apellido"  
    android:text="Sexo:"  
    android:textAppearance="?android:attr/textAppearanceMedium" />  
<Spinner  
    android:id="@+id/sexo"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:entries="@array/sexo"  
  
    android:layout_alignTop="@id/t_tipo"  
    android:layout_toRightOf="@id/t_tipo" />  
<TextView  
    android:id="@+id/t_direccion"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_below="@id/sexo"  
    android:text="Dirección:"  
    android:textAppearance="?android:attr/textAppearanceMedium" />  
<EditText  
    android:id="@+id/direccion"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_below="@id/t_direccion"  
    android:hint="dirección"  
    android:inputType="textPostalAddress" />
```

## activity\_insertar\_cliente.xml

```
<TextView  
    android:id="@+id/t_telefono"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_below="@id/direccion"  
    android:text="Teléfono:"  
    android:textAppearance="?android:attr/textAppearanceMedium" />  
<EditText  
    android:id="@+id/telefono"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_toRightOf="@+id/t_telefono"  
    android:layout_alignTop="@+id/t_telefono"  
    android:hint="teléfono para contactar"  
    android:inputType="phone" />  
</RelativeLayout>  
</android.support.v4.widget.NestedScrollView>
```

## values/array.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string-array name="sexo">
        <item>Masculino</item>
        <item>Femenino</item>
    </string-array>
</resources>
```

# PROBEMOS SU FUNCIONAMIENTO

## INSERTAMOS UN BOTON A activity\_insertar\_cliente.xml

```
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Insertar"  
    android:layout_below="@+id/telefono"  
    android:onClick="Insertar"/>
```

# Modificamos el oncreate y declaramos variables

```
private EditText apellido;
private Spinner sexo;
private EditText nombre;
private EditText telefono;
private EditText direccion;
private int isexo;
HttpURLConnection conexion;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_insertar_cliente);
    nombre = (EditText) findViewById(R.id.nombre);
    direccion = (EditText) findViewById(R.id.direccion);
    telefono = (EditText) findViewById(R.id.telefono);
    apellido = (EditText) findViewById(R.id.apellido);
    sexo = (Spinner) findViewById(R.id.sexo);
    isexo=(sexo.getSelectedItem().toString().equals("Masculino"))?0:1;
}
```

# Añadimos el método insertar

```
public void Insertar(View view) {
    try {
        String miurl= this.getString(R.string.dominio)+this.getString(R.string.insertarcliente)
            + "nombre="+ URLEncoder.encode(nombre.getText().toString(), "UTF-8") + "&apellido="
            + URLEncoder.encode(apellido.getText().toString(), "UTF-8") + "&sexo=" + isexo+"&telefono="
            + nombre.getText().toString() + "&telefono=" + URLEncoder.encode(telefono.getText().toString(), "UTF-8")
            + "&direccion=" + URLEncoder.encode(direccion.getText().toString(), "UTF-8");
        URL url=new URL(miurl);
        Log.e("mierror",miurl);
        conexion = (HttpURLConnection) url
            .openConnection();
        if (conexion.getResponseCode() == HttpURLConnection.HTTP_OK) {
            BufferedReader reader = new BufferedReader(new InputStreamReader(conexion.getInputStream()));
            String linea = reader.readLine();
            if (!linea.equals("OK\\n")) {
                Log.e("mierror","Error en servicio Web nueva");
            }
            else
                {Log.e("mierror","No hay error");}
        } else {
            Log.e("mierror", conexion.getResponseMessage());
        }
    } catch (Exception e) {
        Log.e("mierror", e.getMessage(), e);
    } finally {
        if (conexion!=null) conexion.disconnect();
    }
}
```

# Base de datos Local TIPs

<http://nightdeveloper.net/active-android-orm/>

<https://github.com/pardom-zz/ActiveAndroid/wiki/getting-started>

# Publicar en la PlayStore

File Edit View Navigate Code Analyze Refactor **Build** Run Tools VCS Window Help

tema3 app src main java com example tema3

Android Project Resource Manager Layout captures Structure Favorites Build Variants

Build: Sync

tema3: synced successfully at 25/08/2019 07:39

Starting Gradle Daemon

Run build C:\Users\51952\AndroidStudioProjects\tema3

Load build

Configure build

Calculate task graph

Run tasks

Plugin Update Recommended

Android Gradle Plugin is ready to update.

Logcat TODO Terminal Build Event Log

Load Settings: Cannot load settings from file 'C:\Users\DEMARKTEC\AndroidStudioProjects\demarktec-pasajero\demarktec\_pasajero\_01.iml': File C:\Users\DEMARKTEC\AndroidStudioProjects\demarktec-pasajero... (12 minutes ago) 123:29 CRLF UTF-8 4 spaces

14:48 25/08/2019



## Generate Signed Bundle or APK



### **Android App Bundle**

Generate a signed app bundle for upload to app stores for the following benefits:

- Smaller download size
- On-demand app features
- Asset-only modules

[Learn more](#)

### **APK**

Build a signed APK that you can deploy to a device

[Previous](#)

[Next](#)

[Cancel](#)

[Help](#)



## Generate Signed Bundle or APK



Module

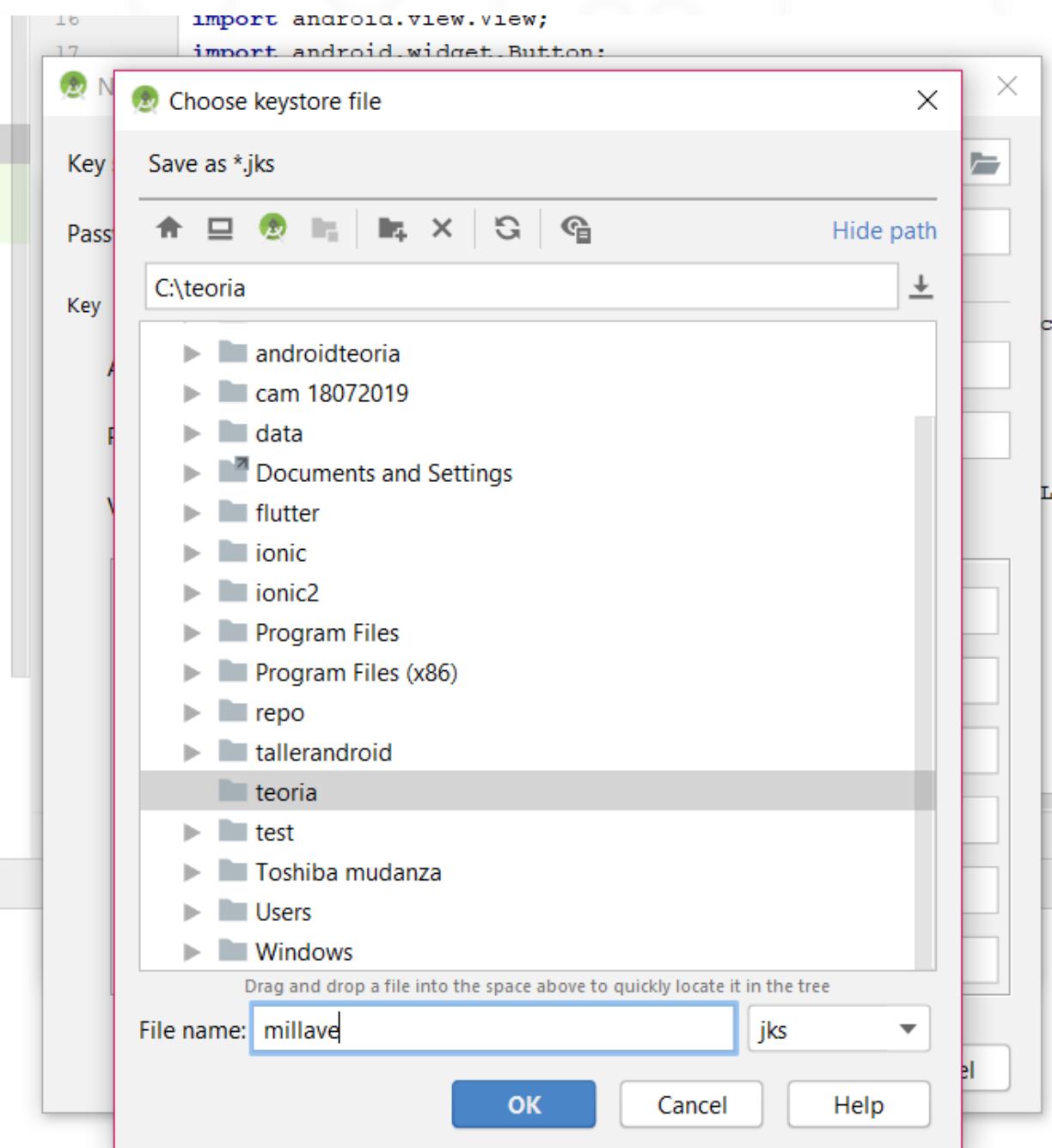
Key store path

Key store password

Key alias

Key password

 Remember passwords





## New Key Store

Key store path: C:\teoria\millave.jks Password:  Confirm: 

Key

Alias: mitema3

Password:  Confirm: Validity (years): 30 

## Certificate

First and Last Name: Wilson

Organizational Unit: DITEC

Organization: DITEC

City or Locality: State or Province: Country Code (XX):

Generate Signed Bundle or APK

X

Module app

Key store path C:\teoria\millave.jks

Create new... Choose existing...

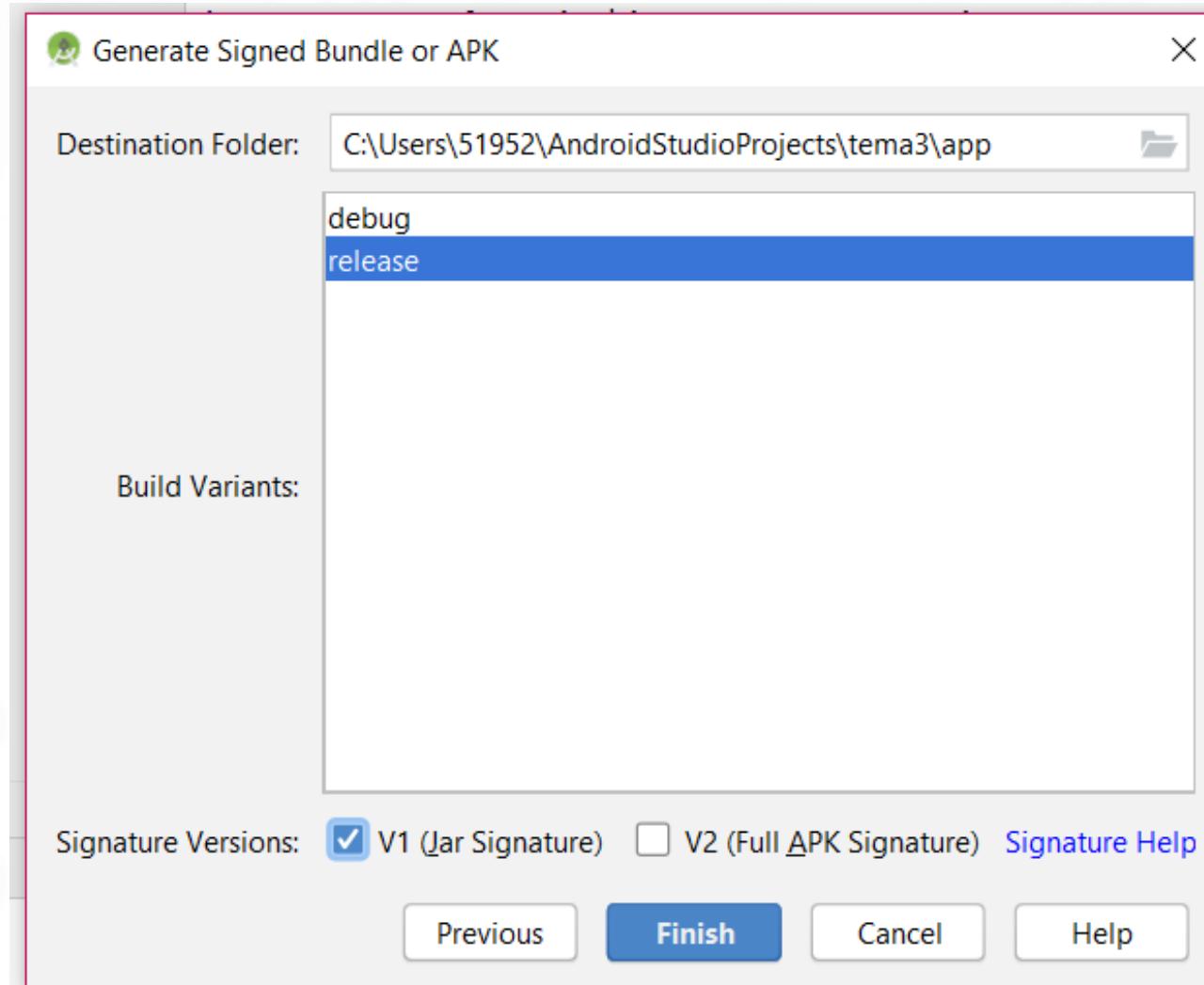
Key store password .....  
Key alias mitema3  
Key password .....

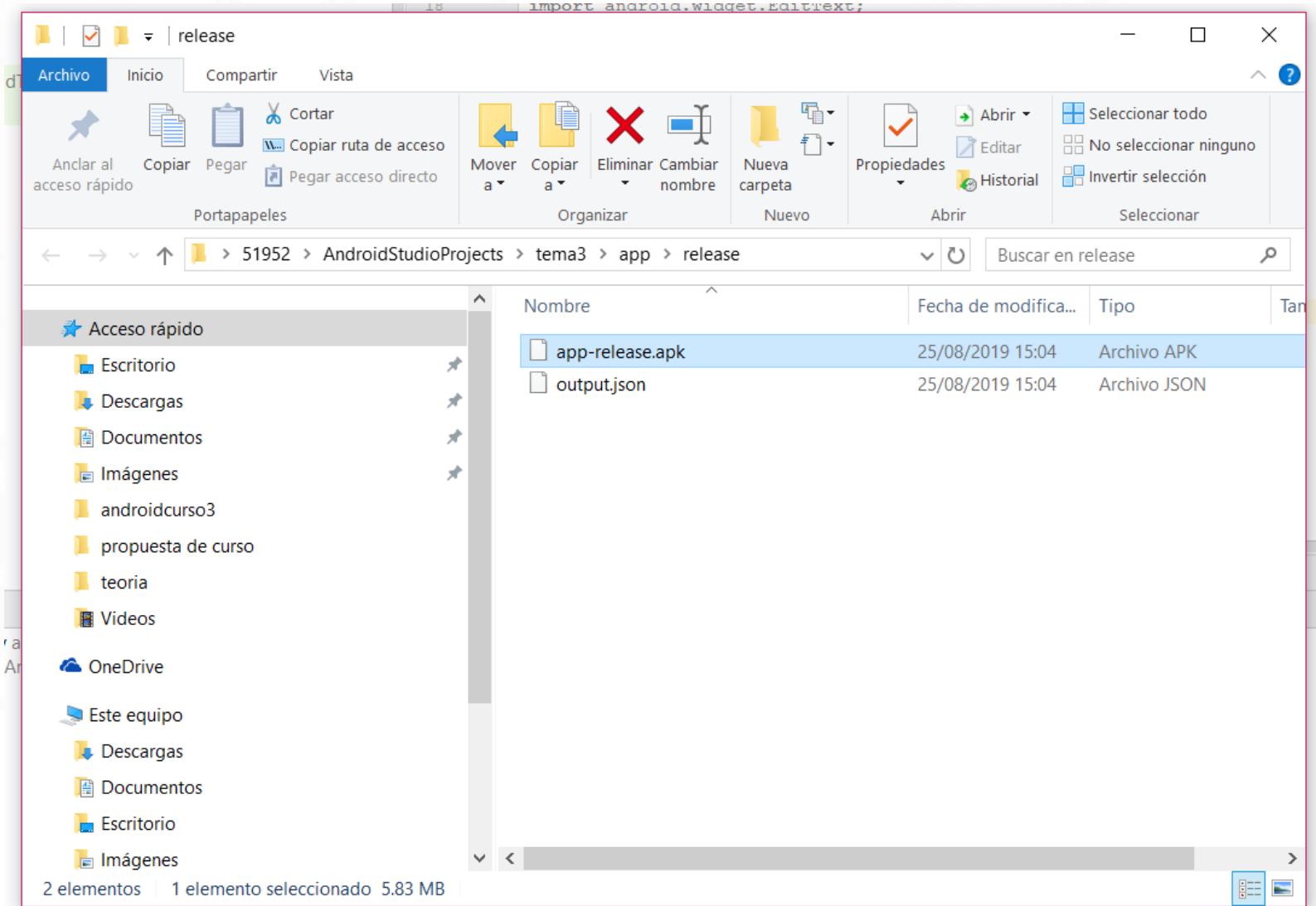
Remember passwords

Previous Next Cancel Help

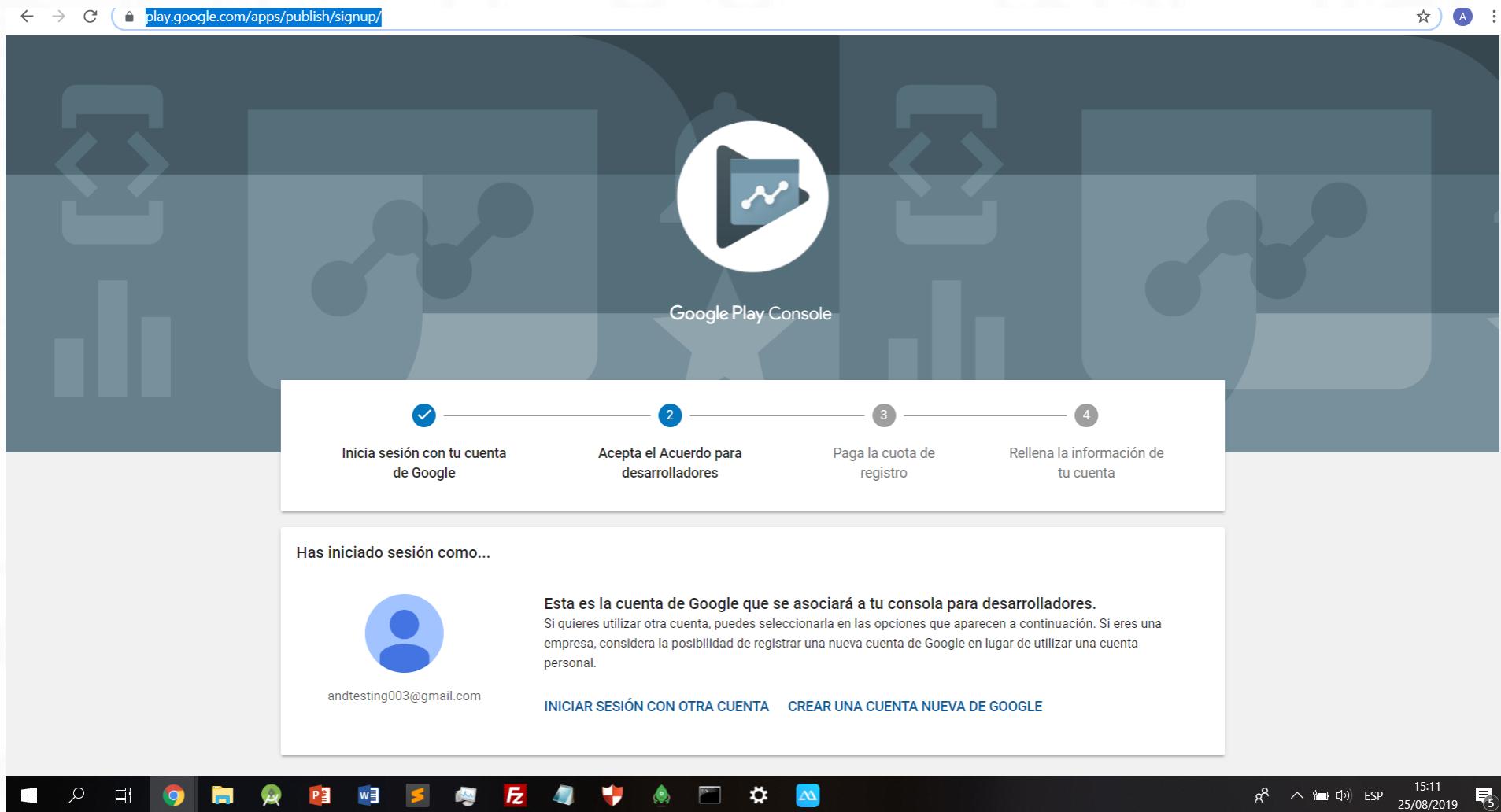
<https://stackoverflow.com/questions/42648499/difference-between-signature-versions-v1jar-signature-and-v2full-apk-signat>

<https://medium.com/@dhuma1981/understanding-new-apk-signature-scheme-v2-b705178f4d60>





<https://play.google.com/apps/publish/signup/>



# <https://play.google.com/apps/publish/>

The screenshot shows the Google Play Console interface. The left sidebar includes links for Google Play Console, Todas las aplicaciones, Servicios de juegos, Administración de pedidos, Descargar informes, Alertas, and Configuración. The main area is titled "Todas las aplicaciones". A red-bordered alert box at the top states: "Alerta: una de tus aplicaciones requiere atención. Se eliminaron una o más de tus aplicaciones por incumplimiento de las políticas de Google Play. Luego de resolver los problemas, podrás volver a enviar las aplicaciones." Below the alert is a "Filtrar" dropdown and a "CREA UNA APLICACIÓN" button. The main table lists the following apps:

Nombre de la app	Instalaciones activas	Nuevo sistema de calificación de Google Play	Última actualización	Estado
Akitaxi CONDUCTOR app.product.demarktec.applevam...	2	★ 4.00	9/2/2018	Publicada
AKITAXI Pasajero app.product.demarktec.akitaxi_us...	—	★ —	8/2/2019	Eliminada <span style="color:red;">-</span>
Alo14 Pasajero app.product.demarktec.alo14_pas...	23	★ —	7/3/2019	Publicada
Alo14 Taxista app.product.demarktec.alo14_taxi	68	★ —	27/4/2018	Publicada
Angeles Pasajero app.product.demarktec.angeles_p...	2	★ —	8/2/2019	Eliminada <span style="color:red;">-</span>
Angeles Taxista app.product.demarktec.angeles_t...	11	★ —	18/10/2018	Publicada
Angels del Sur Cliente app.product.demarktec.angelesde...	10	★ —	13/6/2019	Publicada
Angels del Sur Conductor app.product.demarktec.angelesde...	64	★ —	13/6/2019	Publicada
AQP Pasajero app.product.demarktec.aqp_passe...	13	★ —	23/8/2019	Publicada



Universidad Nacional  
Jorge Basadre Grohmann



# Gracias por su atención.

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