"INSTITUTO SUPERIOR TECNOLÓGICO DEL AZUAY"

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CURSO:

M4B

MATERIA:

PROGRAMACION DE APLICACIONES MOVILES

DOCENTE:

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FECHA DE ENTREGA:

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Instituto Superior
Tecnológico del Azuay

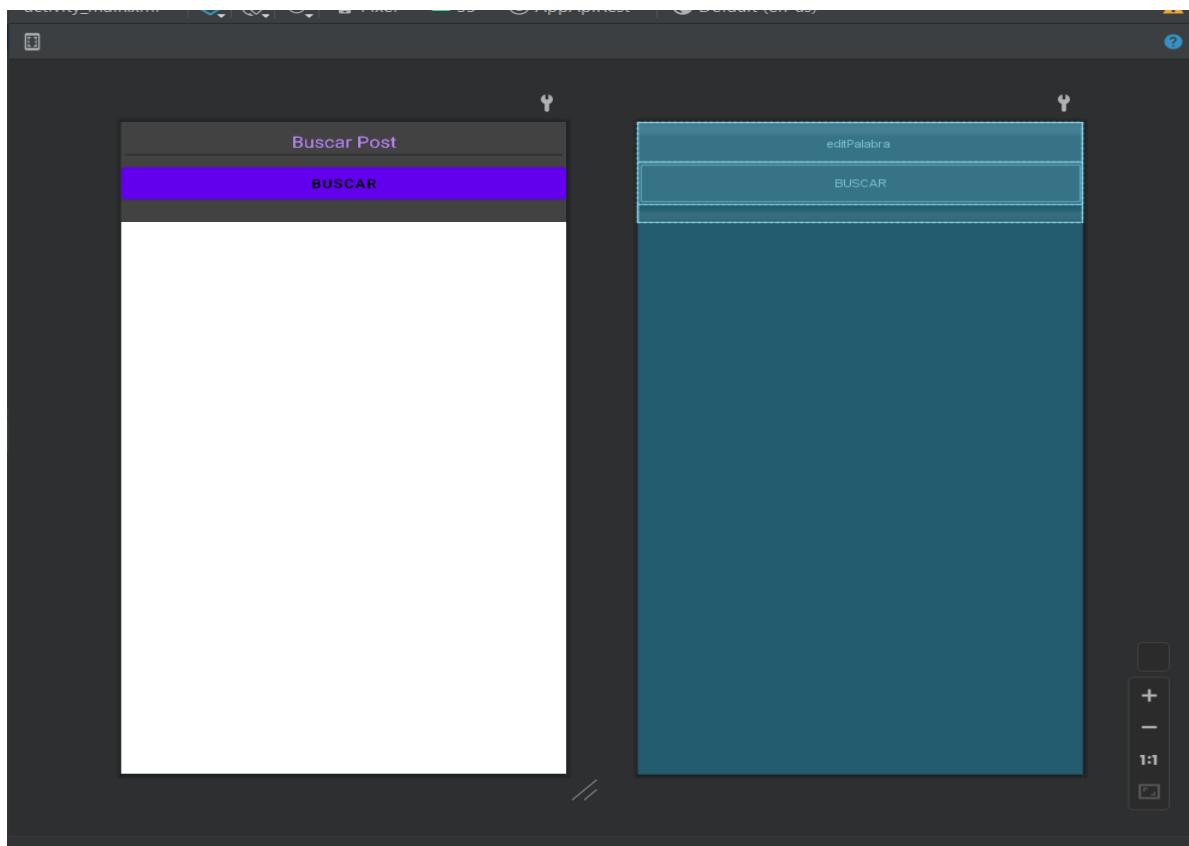**Guia App con Retrofit.**

Librerias.

Activity Main, Clases y Diseño de la App.

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_height="wrap_content"
    android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".models.MainActivity"
    android:orientation="vertical"
    android:background="@color/cardview_dark_background">

    <EditText
        android:id="@+id/editPalabra"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:hint="Buscar Post"
        android:textColor="@color/purple_200"
        android:textColorHint="@color/purple_200" />

    <Button
        android:id="@+id/btnBuscar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Buscar"
        android:textColor="@color/black" />
```

```java
1   package com.corp.kevined.appapirest.interfaces;
2
3   import ...
10
11  public interface PostService {
12      @GET("posts")
13      Call<List<Post>>find(@Query("q")String q);
14  }
15
```

```xml
1   <?xml version="1.0" encoding="utf-8"?>
2   <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3       xmlns:tools="http://schemas.android.com/tools"
4       package="com.corp.kevined.appapirest">
5       <uses-permission android:name="android.permission.INTERNET"/>
6
7       <application
8           android:allowBackup="true"
9           android:dataExtractionRules="@xml/data_extraction_rules"
10          android:fullBackupContent="@xml/backup_rules"
11          android:icon="@drawable/app"
12          android:label="AppApiRest"
13          android:roundIcon="@drawable/app"
14          android:supportsRtl="true"
15          android:theme="@style/Theme.AppApiRest"
16          tools:targetApi="31">
17          <activity
18              android:name=".models.MainActivity"
19              android:exported="true">
20              <intent-filter>
21                  <action android:name="android.intent.action.MAIN" />
22
23                  <category android:name="android.intent.category.LAUNCHER" />
24              </intent-filter>
25          </activity>
26      </application>
27
28  </manifest>
```
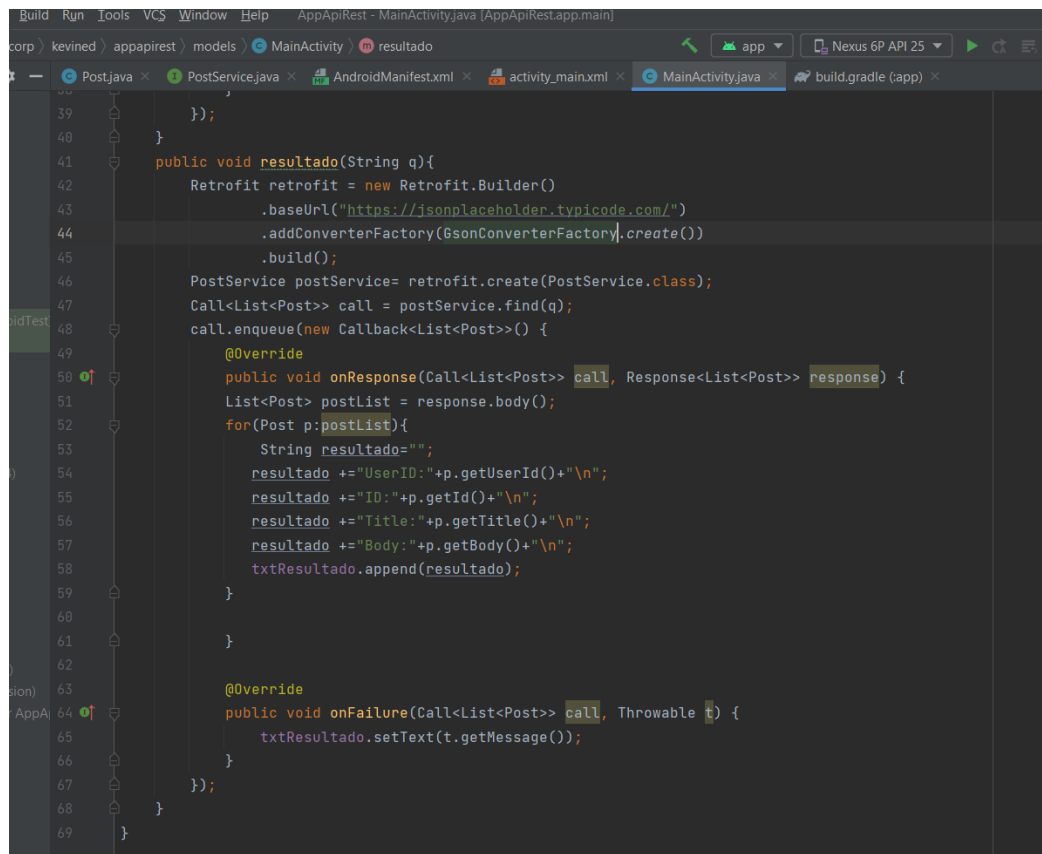
```java
package com.corp.kevined.appapirest.models;

public class Post {
    private int userId;
    private int id;
    private String title;
    private String body;

    public int getUserId() { return userId; }

    public void setUserId(int userId) { this.userId = userId; }

    public int getId() { return id; }

    public void setId(int id) { this.id = id; }

    public String getTitle() { return title; }

    public void setTitle(String title) { this.title = title; }

    public String getBody() { return body; }

    public void setBody(String body) { this.body = body; }
}
```

```java
package com.corp.kevined.appapirest.models;

import ...

public class MainActivity extends AppCompatActivity {
    EditText editPalabra;
    Button btnBuscar;
    TextView txtResultado;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editPalabra = findViewById(R.id.editPalabra);
        btnBuscar = findViewById(R.id.btnBuscar);
        txtResultado = findViewById(R.id.txtResultado);
        btnBuscar.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                txtResultado.setText("");
                resultado(editPalabra.getText().toString());
            }
        });
    }
```

```
39              });
40          }
41          public void resultado(String q){
42              Retrofit retrofit = new Retrofit.Builder()
43                      .baseUrl("https://jsonplaceholder.typicode.com/")
44                      .addConverterFactory(GsonConverterFactory.create())
45                      .build();
46              PostService postService= retrofit.create(PostService.class);
47              Call<List<Post>> call = postService.find(q);
48              call.enqueue(new Callback<List<Post>>() {
49                  @Override
50                  public void onResponse(Call<List<Post>> call, Response<List<Post>> response) {
51                  List<Post> postList = response.body();
52                  for(Post p:postList){
53                      String resultado="";
54                      resultado +="UserID:"+p.getUserId()+"\n";
55                      resultado +="ID:"+p.getId()+"\n";
56                      resultado +="Title:"+p.getTitle()+"\n";
57                      resultado +="Body:"+p.getBody()+"\n";
58                      txtResultado.append(resultado);
59                  }
60
61                  }
62
63                  @Override
64                  public void onFailure(Call<List<Post>> call, Throwable t) {
65                      txtResultado.setText(t.getMessage());
66                  }
67              });
68          }
69      }
```

Link del repositorio

https://github.com/Kevinedgz/AppApiRest.git

Funcionamiento.

AppApiRest

11:09

eligendi

BUSCAR

UserID:1
ID:3
Title:ea molestias quasi exercitationem repellat qui ipsa sit aut
Body:et iusto sed quo iure
voluptatem occaecati omnis eligendi aut ad
voluptatem doloribus vel accusantium quis pariatur
molestiae porro eius odio et labore et velit aut
UserID:2
ID:13
Title:dolorum ut in voluptas mollitia et saepe quo animi
Body:aut dicta possimus sint mollitia voluptas commodi quo
doloremque
iste corrupti reiciendis voluptatem eius rerum
sit cumque quod eligendi laborum minima
perferendis recusandae assumenda consectetur porro architecto
ipsum ipsam
UserID:2
ID:14
Title:voluptatem eligendi optio
Body:fuga et accusamus dolorum perferendis illo voluptas
non doloremque neque facere
ad qui dolorum molestiae beatae
sed aut voluptas totam sit illum
UserID:3
ID:23
Title:maxime id vitae nihil numquam
Body:veritatis unde neque eligendi
quae quod architecto quo neque vitae
est illo sit tempora doloremque fugit quod
et et vel beatae sequi ullam sed tenetur perspiciatis
UserID:3

AppApiRest

dolorum

BUSCAR

UserID:2
ID:13
Title:dolorum ut in voluptas mollitia et saepe quo animi
Body:aut dicta possimus sint mollitia voluptas commodi quo
doloremque
iste corrupti reiciendis voluptatem eius rerum
sit cumque quod eligendi laborum minima
perferendis recusandae assumenda consectetur porro
architecto ipsum ipsam
UserID:2
ID:14
Title:voluptatem eligendi optio
Body:fuga et accusamus dolorum perferendis illo voluptas
non doloremque neque facere
ad qui dolorum molestiae beatae
sed aut voluptas totam sit illum
UserID:2
ID:16
Title:sint suscipit perspiciatis velit dolorum rerum ipsa
laboriosam odio
Body:suscipit nam nisi quo aperiam aut
asperiores eos fugit maiores voluptatibus quia
voluptatem quis ullam qui in alias quia est
consequatur magni mollitia accusamus ea nisi voluptate dicta
UserID:5
ID:43
Title:eligendi iste nostrum consequuntur adipisci praesentium
sit beatae perferendis
Body:similique fugit est
illum et dolorum harum et voluptate eaque quidem
exercitationem quos nam commodi possimus cum odio nihil
nulla
dolorum exercitationem magnam ex et a et distinctio debitis
UserID:7
ID:69
Title:fugiat quod pariatur odit minima
Body:officiis error culpa consequatur modi asperiores et
dolorum assumenda voluptas et vel qui aut vel rerum
voluptatum quisquam perspiciatis quia rerum consequatur
totam quas
sequi commodi repudiandae asperiores et saepe a
UserID:8