

Universidad Privada Franz Tamayo



DESARROLLO DE UNA APP PARA ANDROID

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Asignatura: SISTEMAS OPERATIVOS MOVILES Y EMBEBIDOS

Carrera: INGENIERÍA DE SISTEMAS

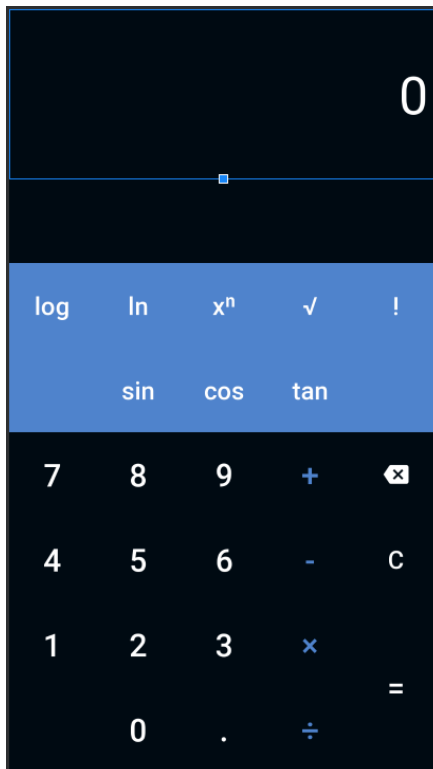
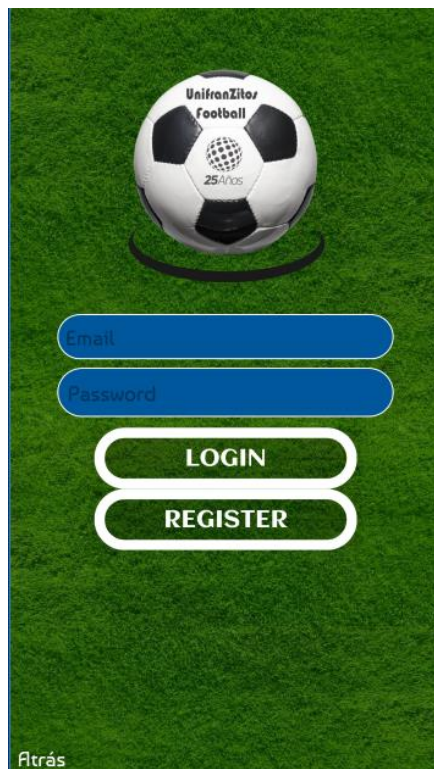
Paralelo: SOM-511(P) (1)

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Cochabamba – Bolivia

APP - CALCULADORA. (Hito3TareaFinal)

US1 Capturas del ONBOARDING



US2 Capturas de la CALCULADORA en funcionamiento

Código Java

```
public class WelcomeFragment extends Fragment {

    private TextView textNext;
    private ViewPager viewPager;
    private View view;

    public WelcomeFragment() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_welcome, container, false);

        initializeInflater(inflater, container);
        initializeComponents();
        eventClickNext();

        return view;
    }

    public void initializeInflater(LayoutInflater inflater, ViewGroup container){
        view = inflater.inflate(R.layout.fragment_welcome, container, attachToRoot: false);
    }

    public void initializeComponents(){
        viewPager = getActivity().findViewById(R.id.viewPagerContainer);
        textNext = view.findViewById(R.id.tvNextWelcome);
    }

    public void eventClickNext(){
        textNext.setOnClickListener((v) -> { viewPager.setCurrentItem(1); });
    }

}
```

```

public class FaceDetectionFragment extends Fragment {

    private TextView textNext, textBack;
    private ViewPager viewPager;
    private View view;

    public FaceDetectionFragment() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_face_detection, container, false);

        initializeInflater(inflater, container);
        initializeComponents();
        eventClicPrevkNext();

        return view;
    }

    public void initializeInflater(LayoutInflater inflater, ViewGroup container){
        view = inflater.inflate(R.layout.fragment_face_detection, container, attachToRoot: false);
    }

    public void initializeComponents(){
        viewPager = getActivity().findViewById(R.id.viewPagerContainer);
        textNext = view.findViewById(R.id.textNextTextRecognition);
        textBack = view.findViewById(R.id.textPrevTextRecognition);
    }

    public void eventClicPrevkNext(){
        textBack.setOnClickListener((v) -> { viewPager.setCurrentItem(0); });
        textNext.setOnClickListener((v) -> { viewPager.setCurrentItem(2); });
    }
}

```

```

        textBack = view.findViewById(R.id.textPrevLogin);
        textBack.setOnClickListener(this);
        buttonLogin = view.findViewById(R.id.buttonLogin);
        buttonLogin.setOnClickListener(this);
    }

    @Override
    public void onClick(View v) {
        switch (v.getId()){
            case R.id.textPrevLogin:
                viewPager.setCurrentItem(0);
                break;
            case R.id.buttonLogin:

                String username = etLogin.getText().toString();
                String password = etPassword.getText().toString();

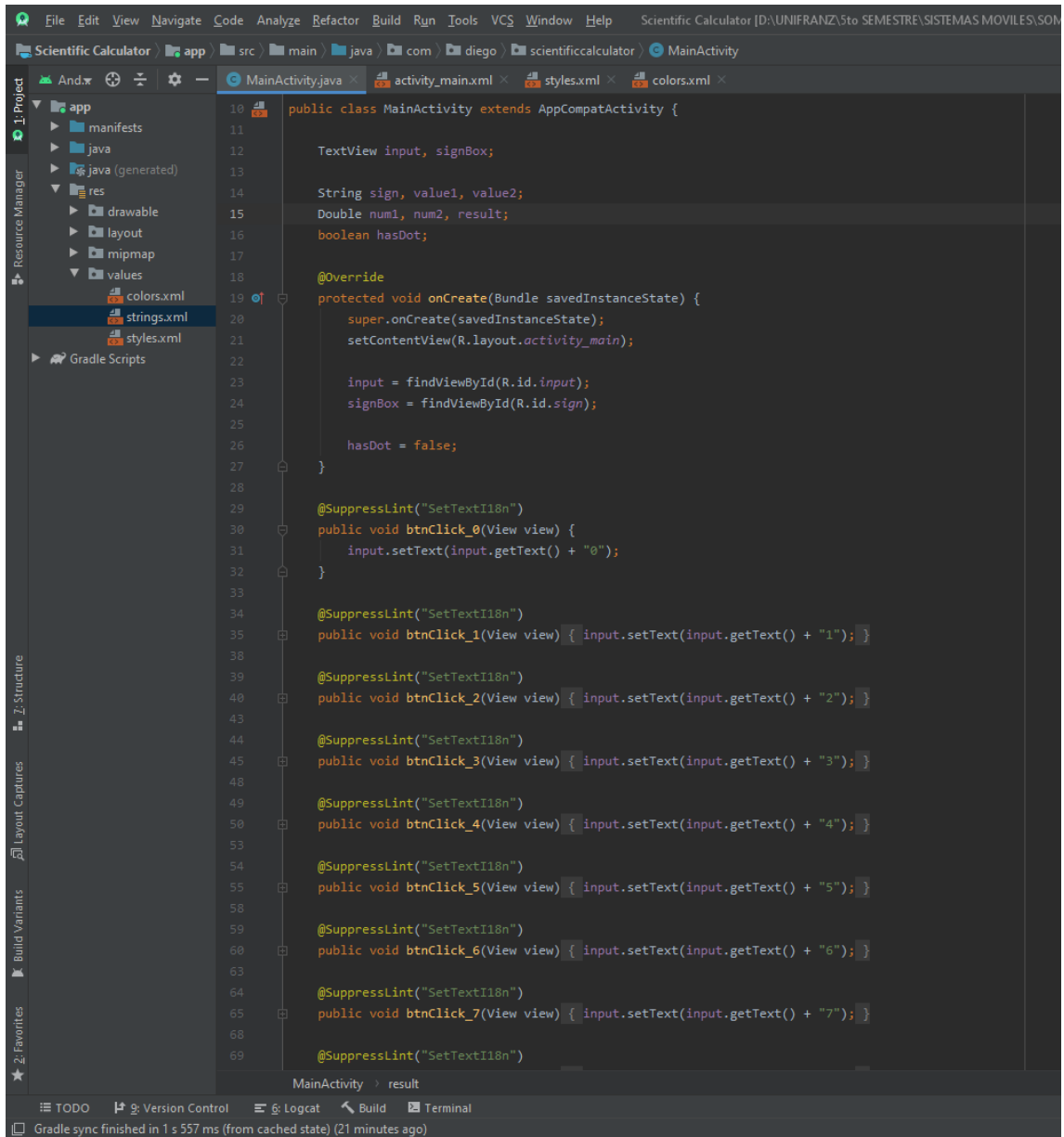
                if (!checkValues(username, password)){
                    Toast.makeText(getActivity(), text: "Please add user and password",
                        Toast.LENGTH_SHORT).show();
                }else {
                    Intent intent = new Intent(getActivity(), ScientificCalculator.class);
                    intent.putExtra( name: "USERNAME", username);
                    intent.putExtra( name: "PASSWORD", password);
                    startActivity(intent);
                    getActivity().finish();
                }

                break;
        }
    }
}

public boolean checkValues (String username, String password){
    boolean isValid = true;

    if (username.equals("") || password.equals("")){
        isValid = false;
    }
    return isValid;
}
}

```



```
Code Analyze Refactor Build Run Tools VCS Window Help Scientific Calculator [D:\UNIFRANZ\5to SEMESTRE\SISTEMAS MOVILES\SOME\Hito3\Scientific Calcul
src \ main \ java \ com \ diego \ scientificcalculator \ MainActivity
MainActivity.java x activity_main.xml x styles.xml x colors.xml x
189 @SuppressWarnings("SetTextI18n")
190 public void btnClick_equal(View view) {
191     if (sign == null) {
192         signBox.setText("Error!");
193     } else if (input.getText().equals("")) {
194         signBox.setText("Error!");
195     } else if ((sign.equals("+") || sign.equals("-") || sign.equals("*") || sign.equals("/")) && value1.equals("")) {
196         signBox.setText("Error!");
197     } else {
198         switch (sign) {
199             default:
200                 break;
201             case "log":
202                 value1 = input.getText().toString();
203                 num1 = Double.parseDouble(value1);
204                 input.setText(Math.log10(num1) + "");
205                 sign = null;
206                 signBox.setText(null);
207                 break;
208             case "ln":
209                 value1 = input.getText().toString();
210                 num1 = Double.parseDouble(value1);
211                 input.setText(Math.log(num1) + "");
212                 sign = null;
213                 signBox.setText(null);
214                 break;
215             case "power":
216                 num1 = Double.parseDouble(value1);
217                 value2 = input.getText().toString();
218                 num2 = Double.parseDouble(value2);
219                 input.setText(Math.pow(num1, num2) + "");
220                 sign = null;
221                 signBox.setText(null);
222                 break;
223             case "root":
224                 value1 = input.getText().toString();
225                 num1 = Double.parseDouble(value1);
226                 input.setText(Math.sqrt(num1) + "");
227                 sign = null;
228                 signBox.setText(null);
229                 break;
230             case "factorial":
231                 value1 = input.getText().toString();
232                 num1 = Double.parseDouble(value1);
233                 int i = Integer.parseInt(value1) - 1;
234
MainActivity > btnClick_equal()
Logcat Build Terminal
s (from cached state) (22 minutes ago)
```

Código XML

```
<?xml version="1.0" encoding="utf-8"?>
<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"
    tools:context=".Onboarding.WelcomeFragment"
    android:orientation="vertical"
    android:background="@drawable/fondouf">

    <ImageView
        android:id="@+id/imgWelcome"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:scaleType="centerCrop"
        android:layout_gravity="center"
        android:layout_marginTop="100dp"
        android:src="@drawable/logounigranzitos" />

    <TextView
        android:id="@+id/textTitle1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:fontFamily="@font/aclonica"
        android:gravity="center"
        android:text="Bienvenido"
        android:textColor="@color/colorWhite"
        android:textSize="28sp" />

    <TextView
        android:id="@+id/textDesc1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:fontFamily="@font/aclonica"
        android:gravity="center"
        android:text="Campeonato de fútbol UnifranZitos a nivel local y todas..."
        android:textColor="@color/colorWhite"
        android:textSize="18sp" />

    <LinearLayout
```


<TextView

```
    android:id="@+id/textDesc2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:text="Se tiene categoría varones y mujeres con premiacion has..."
    android:textSize="18sp"
    android:textColor="@color/colorWhite"
    android:gravity="center"
    android:fontFamily="@font/aclonica"/>
```

<LinearLayout

```
    android:id="@+id/layoutNext"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">
```

<TextView

```
        android:id="@+id/textPrevTextRecognition"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|start"
        android:layout_marginStart="8dp"
        android:layout_marginBottom="2dp"
        android:gravity="bottom|start"
        android:layout_weight="1"
        android:text="Atrás"
        android:textColor="@color/colorWhite"
        android:textSize="20sp"
        android:fontFamily="@font/baumans"
        android:clickable="true"
        android:focusable="true"/>
```

<TextView

```
        android:id="@+id/textNextTextRecognition"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_marginEnd="8dp"
        android:layout_marginBottom="2dp"
        android:gravity="bottom|end"
```

```
<?xml version="1.0" encoding="utf-8"?>
<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:gravity="center"
    tools:context=".Onboarding.LoginFragment"
    android:background="@drawable/fondouf3">
```

```
<!-- TODO: Update blank fragment layout -->
```

```
<ImageView
    android:id="@+id/imgWelcome"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:scaleType="centerCrop"
    android:layout_gravity="center"
    android:layout_marginTop="50dp"
    android:src="@drawable/logounigranzitos" />
```

```
<EditText
    android:id="@+id/etEmail"
    android:layout_width="320dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:hint="Email"
    android:fontFamily="@font/baumans"
    android:gravity="left"
    android:padding="8dp"
    android:textSize="20sp"
    android:background="@drawable/style_edit_text">
```

```
</EditText>
```

```
<EditText
    android:id="@+id/etPassword"
    android:layout_width="320dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="8dp"
    android:hint="Password"
    android:fontFamily="@font/baumans"
    android:gravity="left"
    android:padding="10dp"
```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1"
    android:background="@color/colorSecondaryLite"
    android:orientation="horizontal"
    android:weightSum="5">

    <Button
        style="@style/Widget.AppCompat.Button.Borderless"
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:onClick="btnClick_log"
        android:text="log"
        android:textAllCaps="false"
        android:textColor="@color/colorTextonSecondary"
        android:textSize="24sp" />

    <Button
        style="@style/Widget.AppCompat.Button.Borderless"
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:onClick="btnClick_ln"
        android:text="ln"
        android:textAllCaps="false"
        android:textColor="@color/colorTextonSecondary"
        android:textSize="24sp" />

    <Button
        style="@style/Widget.AppCompat.Button.Borderless"
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:onClick="btnClick_power"
        android:text="x^n"
        android:textAllCaps="false"
        android:textColor="@color/colorTextonSecondary"
        android:textSize="24sp" />

    <Button
        style="@style/Widget.AppCompat.Button.Borderless"
        android:layout_width="0dp"

```