

Defensa Hito 2

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DISEÑO DE LA APLICACIÓN

The wireframe shows a mobile application interface for tracking COVID-19 cases. At the top, there is a status bar with a signal icon, a battery icon, and the time 21:21. Below the status bar is a header section with a placeholder for an image labeled 'image', followed by the title 'Epidemia Corona Virus'. The main content area is divided into three sections for different regions: COCHABAMBA, SANTA CRUZ, and ORURO. Each region has two input fields: 'Casos Confirmados' and 'Casos Sospechosos', both labeled 'Nro de Casos'. At the bottom of the main content area, there are three input fields with the values '10', '20', and 'ORURO', followed by a 'SET VALUES' button. Below this is a search bar labeled 'ingrese busqueda'. At the very bottom, there is a large 'CALCULAR' button.

Interfaz de la
aplicación a
diseñar

PARTE 1 DE LA EVALUACIÓN

Parte I

The screenshot shows a mobile application interface with a status bar at the top displaying signal strength, Wi-Fi, and the time 21:21. The app has a white background with a black border. At the top, there is a placeholder for an image labeled 'image'. Below this, the title 'Epidemia Corona Virus' is displayed. The interface is organized into three sections, one for each region: COCHABAMBA, SANTA CRUZ, and ORURO. Each section contains two input fields: 'Casos Confirmados' and 'Casos Sospechosos', both labeled 'Nro de Casos'.

Región	Casos Confirmados	Casos Sospechosos
COCHABAMBA	Nro de Casos	Nro de Casos
SANTA CRUZ	Nro de Casos	Nro de Casos
ORURO	Nro de Casos	Nro de Casos

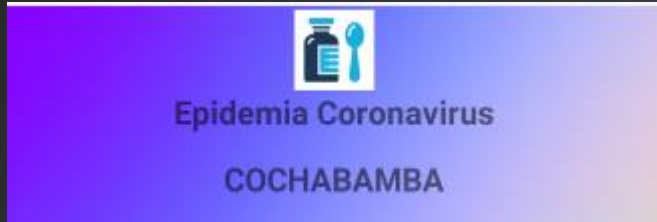


Diseño
elaborado

The refined design features a purple-to-blue gradient background. At the top, there is a blue icon of a medical bottle and a white icon of a spoon. Below the icon, the title 'Epidemia Coronavirus' is displayed in white. The interface is organized into three sections, one for each region: COCHABAMBA, Santa Cruz, and Oruro. Each section contains two input fields: 'Casos confirmados' and 'Casos sospechosos', both labeled 'Nro casos'.

Región	Casos confirmados	Casos sospechosos
COCHABAMBA	Nro casos	Nro casos
Santa Cruz	Nro casos	Nro casos
Oruro	Nro casos	Nro casos

Código fuente del header



Se uso un LinearLayout como contenedor:

1. ImageView para poder implementar la imagen.
2. Un TextView para visualizar el titulo "epidemia coronavirus".
3. TextView para la visualizar "COCHABAMBA".
4. Strings de ambos TextView

```
<string name="tx1">Epidemia Coronavirus</string>
<string name="cocha">COCHABAMBA</string>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="138dp"
    android:gravity="center"
    android:orientation="vertical">
    <ImageView
        android:layout_width="50dp"
        android:layout_height="50dp"
        android:src="@drawable/med">
    </ImageView>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="15dp"
        android:text="@string/tx1"
        android:textSize="20sp"
        android:textStyle="bold" />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="15dp"
        android:text="@string/cocha"
        android:textSize="20sp"
        android:textStyle="bold" />
</LinearLayout>
```

Parte I – Cochabamba

Strings usados

Casos confirmados Nro casos
Casos sospechosos Nro casos

Se utilizaron LinearLayouts como contenedores de cada TextView y EditText.

```
<string name="c1">Casos confirmados</string>  
<string name="c2">Casos sospechosos</string>
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal">  
    <TextView  
        android:layout_marginRight="10sp"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:textSize="20sp"  
        android:textStyle="bold"  
        android:text="@string/c1"  
    />  
    <EditText  
        android:id="@+id/confircocha"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:layout_marginBottom="5dp"  
        android:background="@color/colorPrimary"  
        android:hint="@string/casos"  
    >  
    </EditText>  
</LinearLayout>
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal">  
    <TextView  
        android:id="@+id/tv4"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:textSize="20sp"  
        android:textStyle="bold"  
        android:layout_marginBottom="15dp"  
        android:layout_marginRight="10sp"  
        android:text="@string/c2"  
    />  
    <EditText  
        android:id="@+id/sospecocha"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:layout_marginBottom="5dp"  
        android:background="@color/colorPrimary"  
        android:hint="@string/casos"  
    >  
    </EditText>  
</LinearLayout>
```

Parte I- Santa Cruz



Se utilizo un LinearLayout para contener el título de la sección “Santa Cruz”.

Se utilizaron LinearLayouts como contenedores de cada TextView y EditText.

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginBottom="15dp"
        android:text="@string/santa"/>
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginBottom="15dp"
        android:layout_marginRight="10sp"
        android:text="@string/c1"/>
    <EditText
        android:id="@+id/confirsanta"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="5dp"
        android:hint="@string/casos"

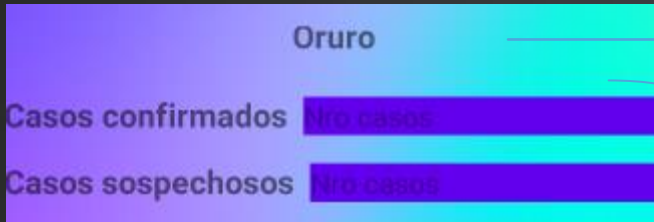
        android:background="@color/colorPrimary">
        </EditText>
    </LinearLayout>
```

Strings usados:

```
<string name="c1">Casos confirmados</string>
<string name="c2">Casos sospechosos</string>
<string name="santa">Santa Cruz</string>
<string name="casos">Nro casos</string>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginBottom="15dp"
        android:layout_marginRight="10sp"
        android:text="@string/c2"/>
    <EditText
        android:id="@+id/sospesanta"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="5dp"
        android:hint="@string/casos"
        android:background="@color/colorPrimary">
        </EditText>
    </LinearLayout>
```


Parte I - Oruro



Se utilizo un LinearLayout para contener el título de la sección "Oruro".

Se utilizaron LinearLayouts como contenedores de cada TextView y EditText.

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginBottom="15dp"
        android:text="@string/oruro"
    />
</LinearLayout>
```

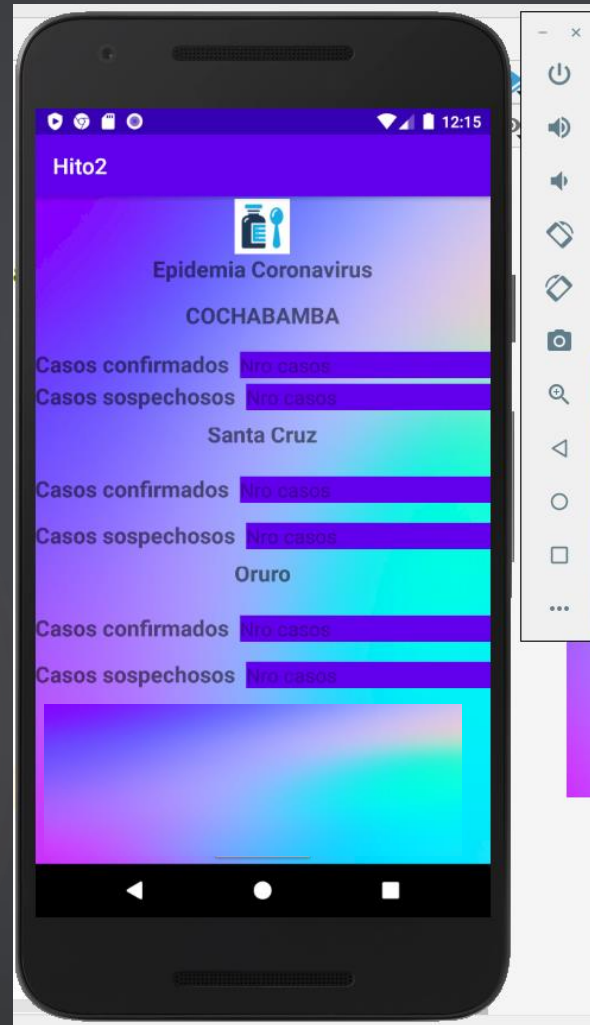
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginBottom="15dp"
        android:layout_marginRight="10sp"
        android:text="@string/c1"/>
    <EditText
        android:id="@+id/confiroru"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="5dp"
        android:hint="@string/casos"
        android:background="@color/colorPrimary">
    </EditText>
</LinearLayout>
```

Strings usados:

```
<string name="c1">Casos confirmados</string>
<string name="c2">Casos sospechosos</string>
<string name="casos">Nro casos</string>
<string name="oruro">Oruro</string>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="15dp"
        android:text="@string/c2"
        android:textSize="20sp"
        android:layout_marginRight="10sp"
        android:textStyle="bold" />
    <EditText
        android:id="@+id/sospeoru"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="5dp"
        android:background="@color/colorPrimary"
        android:hint="@string/casos">
    </EditText>
</LinearLayout>
```

COMPILACIÓN DE LA PARTE I



PARTE 2 DE LA EVALUACIÓN

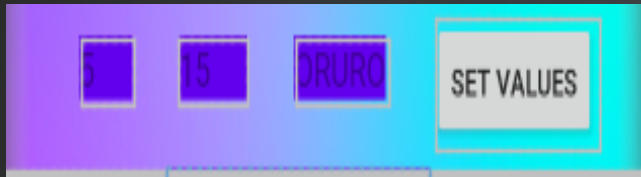
Parte 2

A hand-drawn wireframe of a form. At the top, there are four rectangular boxes containing the text '10', '20', 'ORURO', and 'SET VALUES'. Below these, there is a larger rectangular box containing the text 'ingrese busqueda'. At the bottom, there is a wide rectangular box containing the text 'CALCULAR'.

Diseño Elaborado

A polished design of the form. It features a light blue background with a white grid. The top row contains four input fields with the values '10', '20', and 'ORURO', followed by a 'SET VALUES' button. The second row contains a single wide input field with the placeholder text 'INGRESE BUSQUEDA'. The third row contains a 'CALCULAR' button.

Parte 2 -Interfaz para el “SetValues”



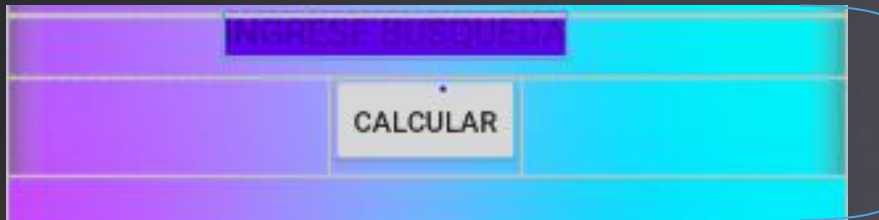
Se utilizó un LinearLayout como contenedor de tres EditText un botón, todos alineados verticalmente

Strings usados:

```
<string name="confir">5</string>
<string name="confir2">15</string>
<string name="oru">ORURO</string>
<string name="btn">set values</string>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="65dp"
    android:gravity="center"
    android:orientation="horizontal">
    <EditText
        android:id="@+id/setconfir"
        android:layout_width="34dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20sp"
        android:layout_marginRight="30sp"
        android:layout_marginBottom="5dp"
        android:background="@color/colorPrimary"
        android:hint="@string/confir">
    </EditText>
    <EditText
        android:id="@+id/setsosp"
        android:layout_width="43dp"
        android:layout_height="wrap_content"
        android:layout_marginRight="30sp"
        android:layout_marginBottom="5dp"
        android:background="@color/colorPrimary"
        android:hint="@string/confir2">
    </EditText>
    <EditText
        android:id="@+id/setdepa"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="30sp"
        android:layout_marginBottom="5dp"
        android:background="@color/colorPrimary"
        android:hint="@string/oru">
    </EditText>
    <Button
        android:id="@+id/setv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/btn">
    </Button>
</LinearLayout>
```

Parte 2 -Interfaz para la búsqueda



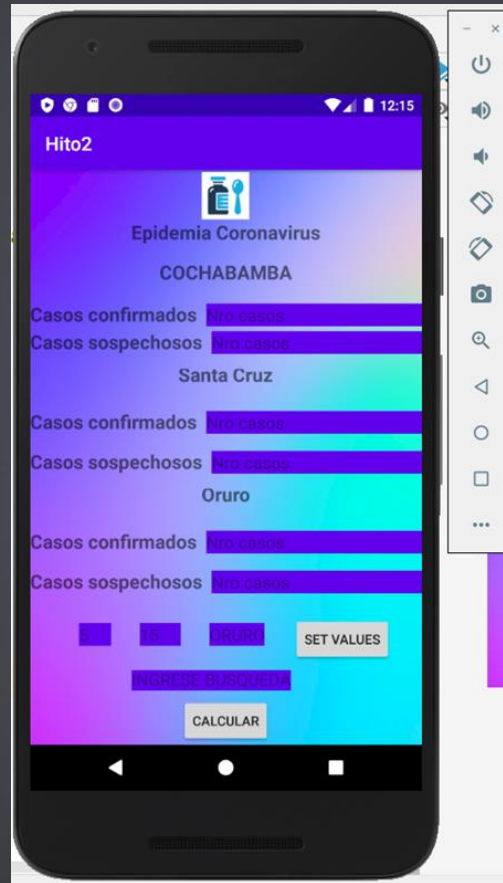
Se utilizaron dos LinearLayout como contenedores de un EditText un button, ambos independientes

Strings usados:

```
<string name="btn2">CALCULAR</string>
<string name="usq">INGRESE BUSQUEDA</string>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:orientation="horizontal">
    <EditText
        android:id="@+id/ingrese"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="30sp"
        android:layout_marginBottom="5dp"
        android:background="@color/colorPrimary"
        android:hint="@string/usq"
    </EditText>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:orientation="horizontal"
>
    <Button
        android:id="@+id/uscar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/btn2">
    </Button>
</LinearLayout>
```

COMPILACIÓN DE LA PARTE 2



Parte 3 - Implementar la funcionalidad de Seteo de valores a las ciudades (Contagiados y sospechosos).

Declaración de variables

```
private EditText edt1, edt2, edt3, edt4, edt5,  
edt6, edt7, edt8, edt9, edt10;  
private Button btset, btus;
```

Inicialización de variables

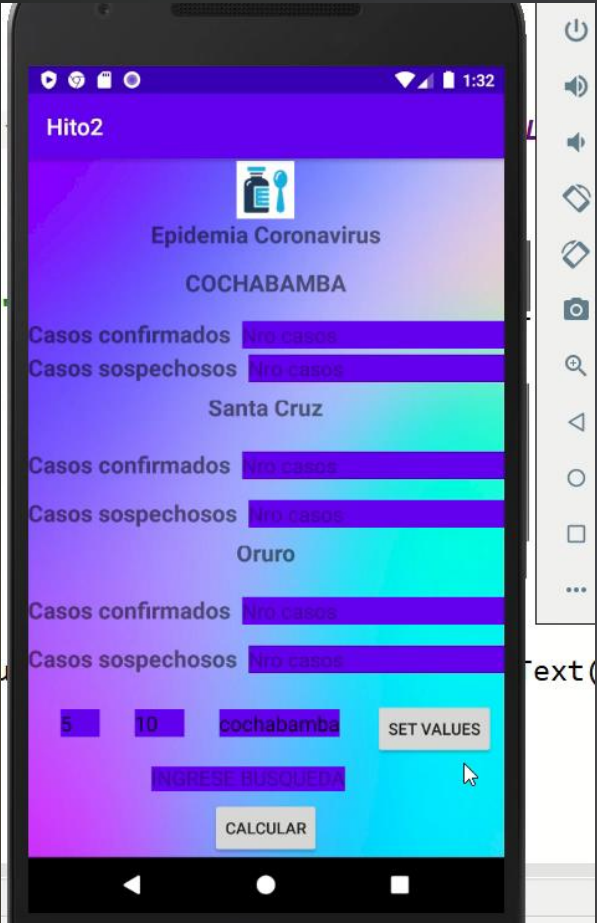
```
public void initializeVariables() {  
    edt1 = findViewById(R.id.confircocha);  
    edt2 = findViewById(R.id.sospecocha);  
    edt3 = findViewById(R.id.sospesanta);  
    edt4 = findViewById(R.id.confirsanta);  
    edt5 = findViewById(R.id.confiroru);  
    edt6 = findViewById(R.id.sospeoru);  
    //parte2  
    edt7 = findViewById(R.id.setconfi);  
    edt8 = findViewById(R.id.setsosp);  
    edt9 = findViewById(R.id.setdepa);  
    btset = findViewById(R.id.setv);  
    btset.setOnClickListener(this);  
    //parte3  
    btus = findViewById(R.id.uscar);  
    btus.setOnClickListener(this);  
    edt10 = findViewById(R.id.ingrese);  
}
```

Se tiene todo dentro de un switch y una función que escucha al click del botón.

```
public void onClick(View v) {  
    switch (v.getId())  
    {  
    }
```

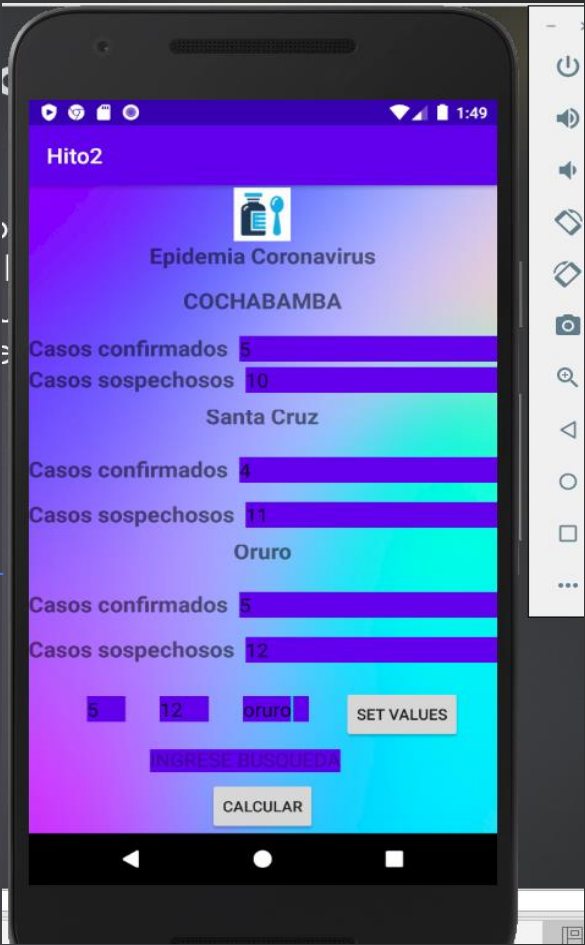
```
case R.id.setv:  
    if (edt9.equals(""))  
    {  
        Toast.makeText(this.getApplication(), "Intente de nuevo",  
            Toast.LENGTH_LONG).show();  
    }  
    else if (edt7.equals(""))  
    {  
        Toast.makeText(this.getApplication(), "Intente de nuevo",  
            Toast.LENGTH_LONG).show();  
    }  
    else if (edt8.equals(""))  
    {  
        Toast.makeText(this.getApplication(), "Intente de nuevo",  
            Toast.LENGTH_LONG).show();  
    }  
    else {  
        if (edt9.getText().toString().equals("ORURO") ||  
            edt9.getText().toString().equals("oruro")) {  
            edt5.setText(edt7.getText());  
            edt6.setText(edt8.getText());  
        }  
        else if (edt9.getText().toString().equals("SANTA CRUZ") ||  
            edt9.getText().toString().equals("santa cruz")) {  
            edt3.setText(edt8.getText());  
            edt4.setText(edt7.getText());  
        }  
        else if (edt9.getText().toString().equals("COCHABAMBA") ||  
            edt9.getText().toString().equals("cochabamba")) {  
            edt1.setText(edt7.getText());  
            edt2.setText(edt8.getText());  
        }  
        else {  
            Toast.makeText(this.getApplication(), "Intente de nuevo",  
                Toast.LENGTH_LONG).show();  
        }  
    }  
    break;
```


Parte 3 – Compilación del funcionamiento



Se puede observar en el video como los valores son puestos en sus respectivos contenedores.

Captura de los datos ya posicionados



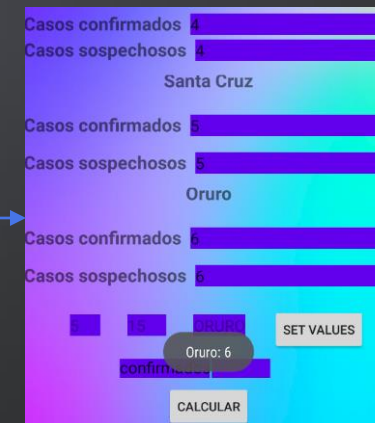
Parte 4 - Implementar la funcionalidad de el calculo de casos contagiados y sospechosos por ciudad.

```
case R.id.uscar:
    int n1,n2,n3 , n4,n5,n6;
    n1 = Integer.parseInt(edt1.getText().toString());
    n2 = Integer.parseInt(edt3.getText().toString());
    n3 = Integer.parseInt(edt5.getText().toString());
    n4 = Integer.parseInt(edt2.getText().toString());
    n5 = Integer.parseInt(edt4.getText().toString());
    n6 = Integer.parseInt(edt6.getText().toString());
    if(edt10.getText().toString().equals("confirmados") || edt10.getText().toString().equals("CONFIRMADOS") )
    {
        if (n1 > n2) {
            if (n1 > n3) {
                Toast.makeText(this.getApplication(),"Cochabamba con: " +n1, Toast.LENGTH_LONG).show();
            } else {
                Toast.makeText(this.getApplication(),"Oruro: " +n3, Toast.LENGTH_LONG).show();
            }
        } else if (n2 > n3) {
            Toast.makeText(this.getApplication(),"Santa Cruz: " +n2, Toast.LENGTH_LONG).show();
        } else {
            Toast.makeText(this.getApplication(),"Oruro: " +n3, Toast.LENGTH_LONG).show();
        }
    }
    else if(edt10.getText().toString().equals("sospechosos") || edt10.getText().toString().equals("SOSPECHOSOS") )
    {
        if (n4 > n5) {
            if (n4 > n6) {
                Toast.makeText(this.getApplication(),"cochabamba: " +n4, Toast.LENGTH_LONG).show();
            } else {
                Toast.makeText(this.getApplication(),"Oruro: " +n6, Toast.LENGTH_LONG).show();
            }
        } else if (n5 > n6) {
            Toast.makeText(this.getApplication(),"Santa Cruz: " +n5, Toast.LENGTH_LONG).show();
        } else {
            Toast.makeText(this.getApplication(),"Oruro : " +n6, Toast.LENGTH_LONG).show();
        }
    }
    }
    break;
```

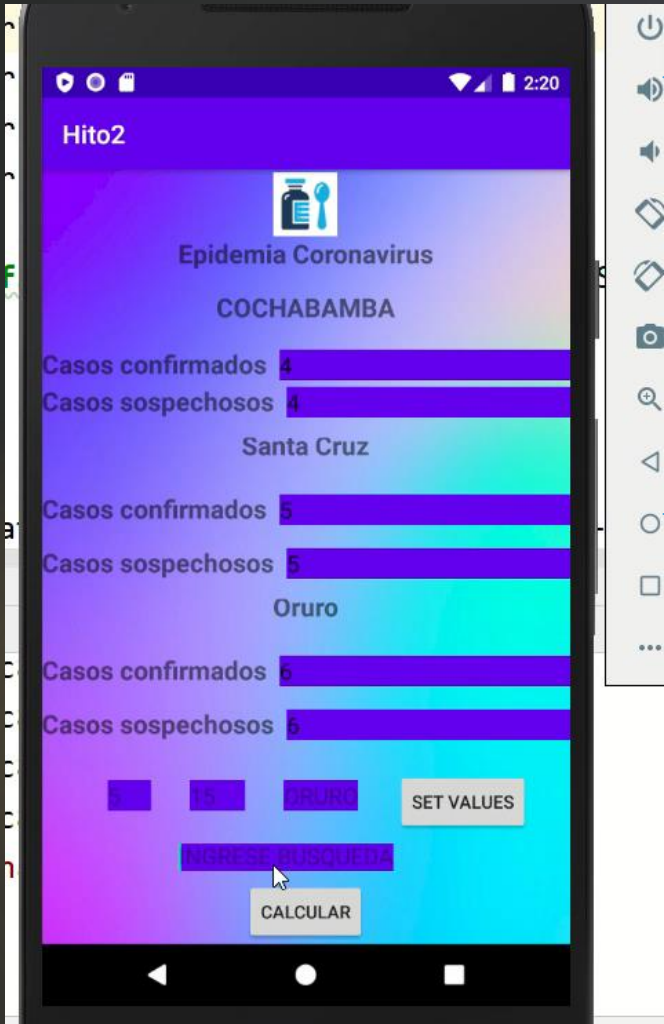


Se recuperan las textos ingresados y se procede a su conversión a Integer

Si se ingresan las palabras "sospechosos o confirmados", la app procede a mostrar un mensaje indicando cual departamento tiene el numero mas alto, para eso se hace una comparación del mayor de tres números.



Parte 4 – Compilación del funcionamiento



Se puede observar en el video como muestra cual departamento tiene el mayor número de casos confirmados y sospechosos.

Captura del dato mostrado

