# Informações sobre o APP

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## 1 Observações

Tentei deixar os códigos .Java e .Xml o mais compreensíveis possível.

## 2 Print das Interfaces

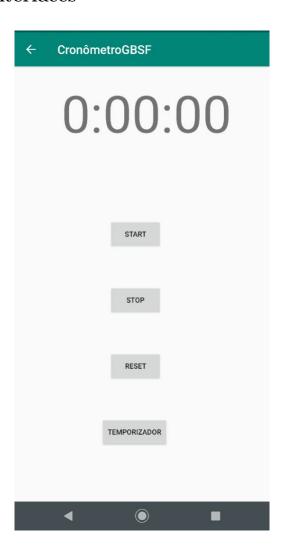


Figura 1: Interface do Cronômetro

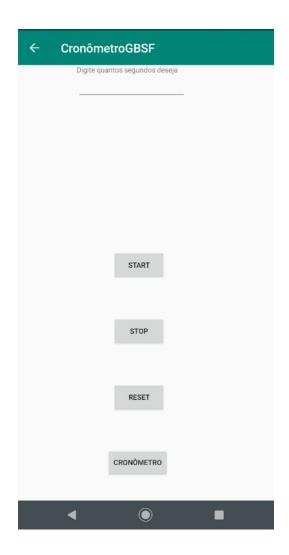


Figura 2: Interface do Temporizador

# 3 Códigos das classes .Java

### • MainActivity:

```
package com.example.relgiogbsf;
import android.os.Handler;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
private int segundos = 0;
```

```
private boolean execucao;
private boolean estavaEmexecucao;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
Button botao1= (Button)findViewById(R.id.bBotao1);
Button botao2= (Button)findViewById(R.id.bBotao2);
Button botao3= (Button)findViewById(R.id.bBotao3);
Button botao4= (Button)findViewById(R.id.bTemporizador);
botao1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
estavaEmexecucao=true;
onStart();
}
});
botao2.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
onStop();
});
botao3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
segundos=0;
onStop();
}
});
botao4.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
setContentView(R.layout.a ctivity_main2);
}
});
```

```
if (savedInstanceState != null) {
segundos = savedInstanceState.getInt("se gundos");
execucao = savedInstanceState.getBoolean("execucao");
runTimer();
getSupportActionBar().setDisplayHomeAsUpEnabled(true);
@Override
protected void onStart() {
super.onStart();
if (estavaEmexecucao) {
execucao = true;
}
}
@Override
protected void onResume() {
super. onResume();
if (estavaEmexecucao) {
execucao = true;
@Override
protected void onStop() {
super.onStop();
estavaEmexecucao = execucao;
execucao = false;
}
private void runTimer() {
final TextView timeView = (TextView)findViewById(R.id.tTempo);
final Handler handler = new Handler();
handler.post(new Runnable() {
@Override
public void run() {
int hours = segundos/3600;
int minutes = (\text{segundos}\%3600)/60;
int secs = segundos\%60;
String time = String.format("%d:%02d: %02d", hours, minutes, secs);
timeView.setText(time);
```

```
if (execucao) {
segundos++;
handler.postDelayed(this, 1000);
});
}
public void onSaveInstanceState(Bundle savedInstanceState) {
super.on Save Instance State (saved Instance State);\\
savedInstanceState.putInt("segundos", segundos);
savedInstanceState.putBoolean("execução", execucao);
@Override
public boolean onOptionsItemSelected(MenuItem item)
{
int id = item.getItemId();
if(id == android.R.id.home) {
finish();
return true;
return\ super.on Options Item Selected (item);
}
```

### • Main2Activity:

```
package com.example.relgiogbsf;
import android.content.Intent;
import android.os.Handler;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class Main2Activity extends AppCompatActivity {
private int segundos = 0;
private boolean execucao;
private boolean estavaEmexecucao;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
final EditText edit1= (EditText)findViewById(R.id.et1);
edit1.getText().toString();
final int num = Integer.parseInt(String.valueOf(edit1));
Button botao6 = (Button) \text{ findViewById}(R.id.bBotao<math>6);
Button botao7 = (Button) findViewById(R.id.bBotao7);
Button botao8 = (Button) findViewById(R.id.bBotao8);
Button botao5 = (Button) findViewById(R.id.bBotao5);
botao6.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
segundos = num;
estavaEmexecucao=true;
onStart();
}
});
botao7.setOnClickListener(new View.OnClickListener() {
```

```
@Override\\
public void onClick(View v) {
onStop();
});
botao8.setOnClickListener(new View.OnClickListener() {
@Override\\
public void onClick(View v) {
segundos = num;
}
});
botao5.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
setContentView(R.layout.activity_main);
}
});
if (savedInstanceState != null) {
segundos = savedInstanceState.getInt("segundos");
execucao = savedInstanceState.getBoolean("execucao");
}
runTimer();
getSupportActionBar().setDisplayHomeAsUpEnabled(true);
}
@Override
protected void onStart () {
super.onStart();
if (estavaEmexecucao) {
execucao = true;
}
}
@Override
protected void onResume () {
super.onResume();
if (estavaEmexecucao) {
execucao = true;
```

```
}
@Override
protected void onStop () {
super.onStop();
estavaEmexecucao = execucao;
execucao = false;
private void runTimer () {
final TextView timeView2 = (TextView) findViewById(R.id.tTempo2);
final Handler handler2 = \text{new Handler}();
handler2.post(new Runnable() {
@Override
public void run() {
int hours = segundos / 3600;
int minutes = (segundos \% 3600) / 60;
int secs = segundos \% 60;
String time2 = String.format("%d:%02d:%02d", hours, minutes, secs);
timeView2.setText(time2);
if (execucao) {
segundos-;
handler2.postDelayed(this, 1000);
}
});
}
public void onSaveInstanceState(Bundle savedInstanceState) {
super.onSaveInstanceState(savedInstanceState);
savedInstanceState.putInt("segundos", segundos);
savedInstanceState.putBoolean("execução", execução);
@Override public boolean onOptionsItemSelected(MenuItem item) {
int id = item.getItemId();
if(id == android.R.id.home) {
finish();
return true;
return super.onOptionsItemSelected(item);
}
```

```
public void chamaTela(View view) {
Intent intente = new Intent(getApplicationContext(), MainActivity.class);
startActivity(intente);
}
```

## 4 Códigos das classes .Xml

• activity\_main:

```
<?xmlversion = "1.0"encoding = "utf - 8"? >
< and roid. support. constraint. Constraint. Layoutxmlns: and roid = "http://schemas.and roid.com/apk/res/and ro
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools: context = ".MainActivity"
< Linear Layout
android:layout_width="395dp"
android:layout_height="715dp"
android:orientation="vertical"
tools:layout_editor_absoluteX="8dp"
tools: layout\_editor\_absoluteY = "8dp"
< TextView
android:id="@+id/tTempo"
android:layout_width="400dp"
android:layout_height="115dp"
android:layout_marginLeft="200px"
android:layout_marginTop="50px"
android:layout_marginBottom="300px"
android: textSize = "100sp"/>
< Button
android:id="@+id/bBotao1"
android:layout_width="wrap_content"
android:layout_height="50dp"
android:layout_marginLeft="400px"
android:layout_marginBottom="150px"
android:text="Start"
android: textAlignment = "center"/>
< Button
android:id="@+id/bBotao2"
```

```
android:layout_width="wrap_content"
android:layout_height="50dp"
android:layout_marginLeft="400px"
android:layout_marginBottom="150px"
android:text="Stop"
android: textAlignment = "center"/>
< Button
android:id="@+id/bBotao3"
android:layout_width="wrap_content"
android:layout_height="50dp"
android:layout_marginLeft="400px"
android:layout_marginBottom="150px"
android:text="Reset"
android: textAlignment = "center"/>
< Button
android:id="@+id/bTemporizador"
android:layout_width="wrap_content"
android:layout_height="50dp"
and roid: layout\_marginLeft = "365px"
android: text = "Temporizador"/>
</Linear Layout>
</android.support.constraint.ConstraintLayout>\\
```

### • activity\_main2:

```
<?xmlversion = "1.0" encoding = "utf - 8"?>
< and roid. support. constraint. Constraint Layout
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"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools: context = ".Main2Activity"
< Linear Layout
android:layout_width="395dp"
android:layout_height="715dp"
android:orientation="vertical"
tools:layout_editor_absoluteX="8dp"
tools: layout\_editor\_absoluteY = "8dp"
< TextView
android:id="@+id/tv3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginLeft="250px"
android:text="Digite quantos segundos deseja"/>
< EditText
android:id="@+id/et1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginLeft="250px"
android:ems="10"
android: inputType = "textPersonName"/>
< TextView
android:id="@+id/tTempo2"
android:layout_width="match_parent"
android:layout_height="150dp"
android:layout_marginTop="100px"
android:layout_marginBottom="150px"/>
```

```
< Button
android:id="@+id/bBotao6"
android:layout_width="wrap_content"
android:layout_height="50dp"
android:layout_marginLeft="400px"
android:layout_marginBottom="150px"
android:text="Start"
android: textAlignment = "center"/>
< Button
android:id="@+id/bBotao7"
android:layout_width="wrap_content"
android:layout_height="50dp"
android:layout_marginLeft="400px"
android:layout_marginBottom="150px"
android:text="Stop"
android: textAlignment = "center"/>
< Button
android:id="@+id/bBotao8"
android:layout_width="wrap_content"
android:layout_height="50dp"
android:layout_marginLeft="400px"
android:layout_marginBottom="150px"
android:text="Reset"
android: textAlignment = "center"/>
< Button
android:id="@+id/bBotao5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginLeft="375px"
android:onClick="chamaTela"
android:text="Cronômetro"/;
</Linear Layout>
< /android.support.constraint.ConstraintLayout;
```