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MainActivity.java

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```

package com.example.clienteeco;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.io.PrintWriter;
import java.io.OutputStreamWriter;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.net.Socket;
import java.net.UnknownHostException;

import android.support.v7.app.ActionBarActivity;
import android.support.v7.app.ActionBar;
import android.support.v4.app.Fragment;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.os.Build;

import android.os.AsyncTask;
import android.app.Activity;
import android.util.Log;

public class MainActivity extends ActionBarActivity
{
    TextView textResponse;
    EditText editTextAddress, editTextPort, editTextMsg;
    Button buttonConnect, buttonEnviar, buttonClear;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        editTextAddress = (EditText)findViewById(R.id.editTextAddress);
        editTextPort = (EditText)findViewById(R.id.editTextPort);
        buttonConnect = (Button)findViewById(R.id.buttonConnect);
        buttonClear = (Button)findViewById(R.id.buttonClear);
        textResponse = (TextView)findViewById(R.id.textResponse);

        /**Sent Button and Message Text Field*/
        buttonEnviar = (Button)findViewById(R.id.buttonEnviar);
        editTextMsg = (EditText)findViewById(R.id.editTextMsg);

        buttonConnect.setOnClickListener(buttonConnectOnClickListener);

        buttonClear.setOnClickListener(new OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                textResponse.setText("");
            }
        });

        OnClickListener buttonConnectOnClickListener = new OnClickListener()
        {

```

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```

        @Override
        public void onClick(View arg0)
        {
            MyClientTask myClientTask = new MyClientTask(editTextAdd
ress.getText().toString(), Integer.parseInt(editTextPort.getText().toString()));
            myClientTask.execute();
        }
    };

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is
present.
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        int id = item.getItemId();
        if (id == R.id.action_settings) {
            return true;
        }
        return super.onOptionsItemSelected(item);
    }

    /**
     * A placeholder fragment containing a simple view.
     */
    public static class PlaceholderFragment extends Fragment {

        public PlaceholderFragment() {
        }

        @Override
        public View onCreateView(LayoutInflater inflater, ViewGroup cont
ainer,
                                Bundle savedInstanceState) {
            View rootView = inflater.inflate(R.layout.fragment_main,
container,
                                false);
            return rootView;
        }
    }

    public class MyClientTask extends AsyncTask<Void, Void, Void>
    {
        String dstAddress;
        int dstPort;
        String response = "";

        MyClientTask(String addr, int port)
        {
            dstAddress = addr;
            dstPort = port;
        }

        @Override
        protected Void doInBackground(Void... arg0)
        {
            Socket socket = null;

            try
            {

```

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	<pre> socket = new Socket(dstAddress, dstPort); response = "Conectado"; publishProgress(); InputStream inputStream = socket.getInputStream(); BufferedReader entrada = new BufferedReader(new InputStreamReader(inputStream)); OutputStream outputStream= socket.getOutputStream(); PrintWriter saida = new PrintWriter(new OutputSt reamWriter(outputStream),true); saida.println("Sou eu!"); /* * notice: * entrada.readLine() will block if no da */ String dados = entrada.readLine(); response = dados.toString(); } catch (UnknownHostException e) { // TODO Auto-generated catch block e.printStackTrace(); response = "UnknownHostException: " + e.toString(); } catch (IOException e) { // TODO Auto-generated catch block e.printStackTrace(); response = "IOException: " + e.toString(); } finally { if(socket != null) { try { Log.d("Dev", "Close Socket"); socket.close(); } catch (IOException e) { // TODO Auto-generated catch blo e.printStackTrace(); } } } return null; } @Override protected void onPostExecute(Void result) { textResponse.append(response); textResponse.append("\n"); super.onPostExecute(result); } @Override protected void onProgressUpdate (Void... v) </pre>	

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	<pre> { super.onProgressUpdate(v); textResponse.append(response); textResponse.append("\n"); Log.d("Dev", "Estou na funcao onProgressUpdate"); } } </pre>	

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activity_main.xml

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```

<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:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:orientation="vertical"
    tools:context=".MainActivity" >

    <EditText
        android:id="@+id/address"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Endereco IP Srv" />

    <EditText
        android:id="@+id/port"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Porta destino" />

    <EditText
        android:id="@+id/message"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Mensagem" />

    <Button
        android:id="@+id/connect"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Conectar..." />

    <Button
        android:id="@+id/enviar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enviar Msg" />

    <Button
        android:id="@+id/clear"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Limpar" />

    <ScrollView
        android:id="@+id/scrollView1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical" >

            <TextView
                android:id="@+id/response"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content" />
        </LinearLayout>
    </ScrollView>

</LinearLayout>

```

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fragment_main.xml

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```

<RelativeLayout 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:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/buttonClear"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/buttonConnect"
        android:layout_below="@+id/editTextMsg"
        android:text="Limpar" />

    <Button
        android:id="@+id/buttonEnviar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/buttonClear"
        android:layout_alignBottom="@+id/buttonClear"
        android:layout_alignParentRight="true"
        android:text="Enviar" />

    <TextView
        android:id="@+id/textResponse"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentRight="true"
        android:layout_below="@+id/buttonEnviar"
        android:layout_marginTop="31dp"
        android:textAppearance="?android:attr/textAppearanceSmall" />

    <EditText
        android:id="@+id/editTextPort"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editTextAddress"
        android:layout_alignParentRight="true"
        android:layout_below="@+id/editTextAddress"
        android:ems="10"
        android:hint="Porta" >

        <requestFocus />
    </EditText>

    <EditText
        android:id="@+id/editTextAddress"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentTop="true"
        android:ems="10"
        android:hint="Endereo IP" />

    <Button
        android:id="@+id/buttonConnect"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editTextPort"
        android:layout_alignParentRight="true"
        android:layout_below="@+id/editTextPort"
        android:text="Conectar" />

```

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fragment_main.xml

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```

    <EditText
        android:id="@+id/editTextMsg"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/buttonConnect"
        android:layout_alignRight="@+id/buttonEnviar"
        android:layout_below="@+id/buttonConnect"
        android:layout_marginTop="30dp"
        android:ems="10"
        android:hint="Mensagem" />

</RelativeLayout>

```

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AndroidManifest.xml

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```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.clienteeco"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="9" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name="com.example.clienteeco.MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```