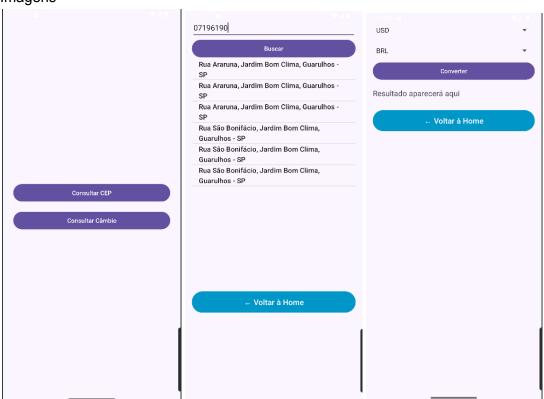
Projeto efetuado por Gabriel Bigarato - RGM:32831048 Victor Hugo Padovani - RGM: 33756601

Imagens



AndroidManifest.xml

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

   <!-- Permissão para acesso à internet -->
   <uses-permission android:name="android.permission.INTERNET"/>

   <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.API_ViaCep_Project"</pre>
```

CurrencyActivity.kt

package com.example.api_viacep_project

```
import android.os.Bundle
import android.widget.ArrayAdapter
import android.widget.Button
import android.widget.Spinner
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import okhttp3.*
import org.json.JSONObject
import java.io.IOException

class CurrencyActivity: AppCompatActivity() {

   private lateinit var spinnerFrom: Spinner
   private lateinit var spinnerTo: Spinner
   private lateinit var btnConvert: Button
   private lateinit var txtResult: TextView
   private lateinit var btnVoltar: Button
```

```
private val client = OkHttpClient()
  override fun onCreate(savedInstanceState: Bundle?) {
       super.onCreate(savedInstanceState)
       setContentView(R.layout.activity currency)
      spinnerFrom = findViewById(R.id.spinnerFrom)
      spinnerTo = findViewById(R.id.spinnerTo)
      btnConvert = findViewById(R.id.btnConvert)
       txtResult = findViewById(R.id.txtResult)
      btnVoltar = findViewById(R.id.btnVoltar)
      val adapter = ArrayAdapter(this,
android.R.layout.simple spinner dropdown item, currencies)
      spinnerFrom.adapter = adapter
      spinnerTo.adapter = adapter
      btnConvert.setOnClickListener {
          val from = spinnerFrom.selectedItem.toString()
          val to = spinnerTo.selectedItem.toString()
           fetchConversion(from, to)
       }
      btnVoltar.setOnClickListener {
          finish()
  private fun fetchConversion(from: String, to: String) {
       val url =
'https://api.exchangerate.host/latest?base=$from&symbols=$to"
       val request = Request.Builder().url(url).build()
       client.newCall(request).enqueue(object : Callback {
           override fun onFailure(call: Call, e: IOException) {
               runOnUiThread {
               }
           override fun onResponse(call: Call, response: Response)
               response.body()?.use { responseBody ->
                  val json = responseBody.string()
                   if (json.isNotEmpty()) {
                       val jsonObj = JSONObject(json)
```

Endereco.kt

package com.example.api viacep project

```
data class Endereco(
   val cep: String?,
   val logradouro: String?,
   val complemento: String?,
   val bairro: String?,
   val localidade: String?,
   val uf: String?
```

MainActivity.kt

package com.example.api viacep project

```
import android.content.Intent
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import android.widget.Button

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
```

```
val btnViaCep = findViewById<Button>(R.id.btnViaCep)
val btnCurrency = findViewById<Button>(R.id.btnCurrency)

btnViaCep.setOnClickListener {
        startActivity(Intent(this, ViaCepActivity::class.java))
}

btnCurrency.setOnClickListener {
        startActivity(Intent(this,
CurrencyActivity::class.java))
     }
}
```

ViaCepActivity.kt

package com.example.api_viacep_project

```
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.ListView
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import com.google.gson.Gson
import okhttp3.*
import java.io.IOException
class ViaCepActivity : AppCompatActivity() {
  private lateinit var edtCep: EditText
  private lateinit var btnBuscar: Button
  private lateinit var listView: ListView
  private val client = OkHttpClient()
  private lateinit var adapter:
android.widget.ArrayAdapter<String>
  override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
      setContentView(R.layout.activity viacep)
      edtCep = findViewById(R.id.edtCep)
      btnBuscar = findViewById(R.id.btnBuscar)
       listView = findViewById(R.id.listView)
```

```
adapter = android.widget.ArrayAdapter(this,
android.R.layout.simple list item 1, listItems)
       val btnVoltar = findViewById<Button>(R.id.btnVoltar)
      btnVoltar.setOnClickListener {
      btnBuscar.setOnClickListener {
          val cep = edtCep.text.toString()
               buscarCep(cep)
Toast.LENGTH SHORT).show()
       }
       val request = Request.Builder().url(url).build()
       client.newCall(request).enqueue(object : Callback {
           override fun onFailure(call: Call, e: IOException) {
               runOnUiThread {
buscar CEP", Toast.LENGTH SHORT).show()
           override fun onResponse(call: Call, response: Response)
               response.body()?.use { responseBody ->
                  val json = responseBody.string()
                   val endereco = Gson().fromJson(json,
Endereco::class.java)
${endereco.bairro}, ${endereco.localidade} - ${endereco.uf}"
                   runOnUiThread {
                      listItems.add(resultado)
                       adapter.notifyDataSetChanged()
               } ?: runOnUiThread {
```

```
}

}

}

}
```

ViaCepService.kt

```
package com.example.api viacep project
```

```
import retrofit2.Call
import retrofit2.http.GET
import retrofit2.http.Path

interface ViaCepService {
   @GET("{cep}/json/")
   fun buscarCep(@Path("cep") cep: String): Call<Endereco>
}
```

activity_currency.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  android:padding="16dp"
   android:layout_width="match_parent"
   android:layout height="match parent">
   <Spinner
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:minHeight="48dp" />
   <Spinner
       android:layout width="match parent"
       android:layout height="wrap content"
       android:minHeight="48dp" />
   <Button
       android:id="@+id/btnConvert"
       android:text="Converter"
       android:layout_width="match_parent"
       android:layout_height="wrap_content" />
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="24dp">

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Consultar CEP" />

        <Button
        android:text="Consultar CEP" />

        <Button
        android:text="Consultar CEP" />

        android:text="Consultar CEP" />

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:text="Consultar Câmbio"
        android:layout_marginTop="16dp" />
```

activity_viacep.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  android:orientation="vertical"
  android:padding="16dp"
  android:layout_width="match_parent"
  android:layout_height="match_parent">
  <EditText
       android:layout width="match parent"
       android:layout height="wrap content"
      android:inputType="number"
      android:minHeight="48dp" />
  <Button
      android:id="@+id/btnBuscar"
       android:layout width="match parent"
       android:layout height="wrap content"/>
       android:id="@+id/listView"
       android:layout width="match parent"
       android:layout height="511dp" />
  <Button
      android:id="@+id/btnVoltar"
       android:layout width="match parent"
       android:layout_height="wrap_content"
       android:text="← Voltar à Home"
      android:textAllCaps="false"
       android:layout marginTop="24dp"
       android:layout marginBottom="16dp"
       android:padding="12dp" />
</LinearLayout>
```

```
android {
   namespace = "com.example.api viacep project"
   compileSdk = 35
   defaultConfig {
       applicationId = "com.example.api viacep project"
      minSdk = 35
      targetSdk = 35
      versionCode = 1
       testInstrumentationRunner =
  buildTypes {
           isMinifyEnabled = false
          proguardFiles(
getDefaultProguardFile("proguard-android-optimize.txt"),
   compileOptions {
       sourceCompatibility = JavaVersion.VERSION 11
       targetCompatibility = JavaVersion.VERSION_11
   kotlinOptions {
       jvmTarget = "11"
dependencies {
   implementation("androidx.core:core-ktx:1.12.0")
   implementation("androidx.appcompat:1.6.1")
   implementation("com.google.android.material:material:1.11.0")
   implementation("androidx.activity:activity-ktx:1.8.2")
implementation("androidx.constraintlayout:constraintlayout:2.1.4")
```

```
implementation("com.squareup.retrofit2:retrofit:2.9.0")
  implementation("com.squareup.retrofit2:converter-gson:2.9.0")

  testImplementation("junit:junit:4.13.2")
  androidTestImplementation("androidx.test.ext:junit:1.1.5")

androidTestImplementation("androidx.test.espresso:espresso-core:3.5.1")

implementation(libs.retrofit)
  implementation(libs.gsonconverter)
```