

Campus: POLO SAGUAÇU - JOINVILLE - SC

Curso: DESENVOLVIMENTO FULL STACK

Disciplina: RPG0025 - Lidando com sensores em dispositivos móveis

Turma: 9001

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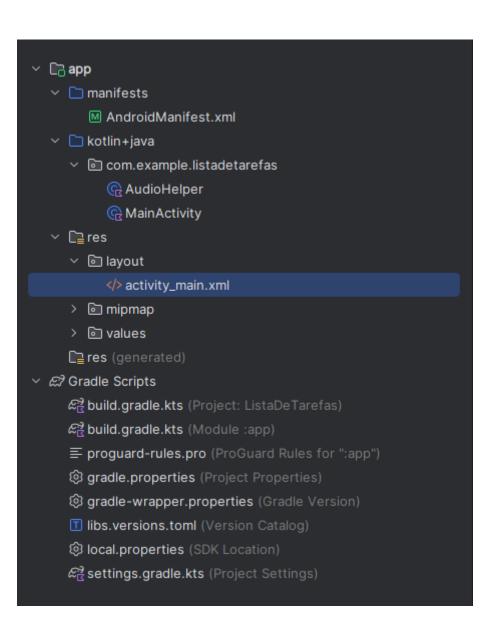
Link: https://github.com/JedersonBorges/estacio-RPG0025.git

Lidando com sensores em dispositivos móveis

Objetivos da prática

Instalação do Android Studio e do emulador Criar um app para Wear OS Executar um app no emulador Fazer capturas de telas no Android Studio Fazer capturas de telas com o app complementar

Estrutura:



MainActivity:

```
package com.example.listadetarefas
    import android.content.Intent
    import android.media.AudioDeviceInfo
    import android.provider.Settings
    import androidx.activity.enableEdgeToEdge
    import androidx.appcompat.app.AppCompatActivity
    import androidx.core.view.ViewCompat
    import androidx.core.view.WindowInsetsCompat
    import android.widget.Toast
 class MainActivity : AppCompatActivity() {
        private lateinit var <u>audioHelper</u>: AudioHelper
        override fun onCreate(savedInstanceState: Bundle?) {
            super.onCreate(savedInstanceState)
            setContentView(R.layout.activity_main)
            ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
                val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
                v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            audioHelper = AudioHelper( context: this)
            if (!audioHelper.audioOutputAvailable(AudioDeviceInfo.TYPE_BLUETOOTH_A2DP)) {
                redirectToBluetoothSettings()
        private fun redirectToBluetoothSettings() {
            val intent = Intent(Settings.ACTION_BLUETOOTH_SETTINGS).apply {
                addFlags( flags: Intent.FLAG_ACTIVITY_NEW_TASK or Intent.FLAG_ACTIVITY_CLEAR_TASK)
            startActivity(intent)
```

AudioHelper:

```
package com.example.listadetarefas
import android.content.Context
import android.media.AudioDeviceCallback
import android.media.AudioDeviceInfo
import android.media.AudioManager
import android.content.pm.PackageManager
import android.util.Log
class AudioHelper(private val context: Context) {
   private val audioManager: AudioManager =
       context.getSystemService(Context.AUDIO_SERVICE) as AudioManager
    fun audioOutputAvailable(type: Int): Boolean {
        if (!context.packageManager.hasSystemFeature(PackageManager.FEATURE_AUDIO_OUTPUT)) {
       return audioManager.getDevices(AudioManager.GET_DEVICES_OUTPUTS).any { it.type == type }
            override fun onAudioDevicesAdded(addedDevices: Array<out AudioDeviceInfo>?) {
                super.onAudioDevicesAdded(addedDevices)
                if (audioOutputAvailable(AudioDeviceInfo.TYPE_BLUETOOTH_A2DP)) {
                    Log.d( tag: "AudioHelper", | msg: "Fone de ouvido Bluetooth conectado!")
                super.onAudioDevicesRemoved(removedDevices)
                if (!audioOutputAvailable(AudioDeviceInfo.TYPE_BLUETOOTH_A2DP)) {
                    Log.d( tag: "AudioHelper", msg: "Fone de ouvido Bluetooth desconectado!")
```

Build.grade.kts (module :app)

```
plugins {
   alias(libs.plugins.android.application)
   alias(libs.plugins.kotlin.android)
android {
   defaultConfig {
        targetSdk = 34
   buildTypes {
           proguardFiles(
               getDefaultProguardFile( name: "proguard-android-optimize.txt"),
    compileOptions {
   implementation("androidx.recyclerview:recyclerview:1.2.1")
} ₽
```