

Faculdade Estácio - Campus - Monte Castelo

Curso: Desenvolvimento Full Stack

Disciplina: Posso criar um App de outra forma

Número da Turma: RPG0025

Semestre Letivo: 4

Integrante: Lucas de Oliveira dos Santos

Repositório: <https://github.com/Lucasph3/mundo4-missao3>

1. Título da Prática:

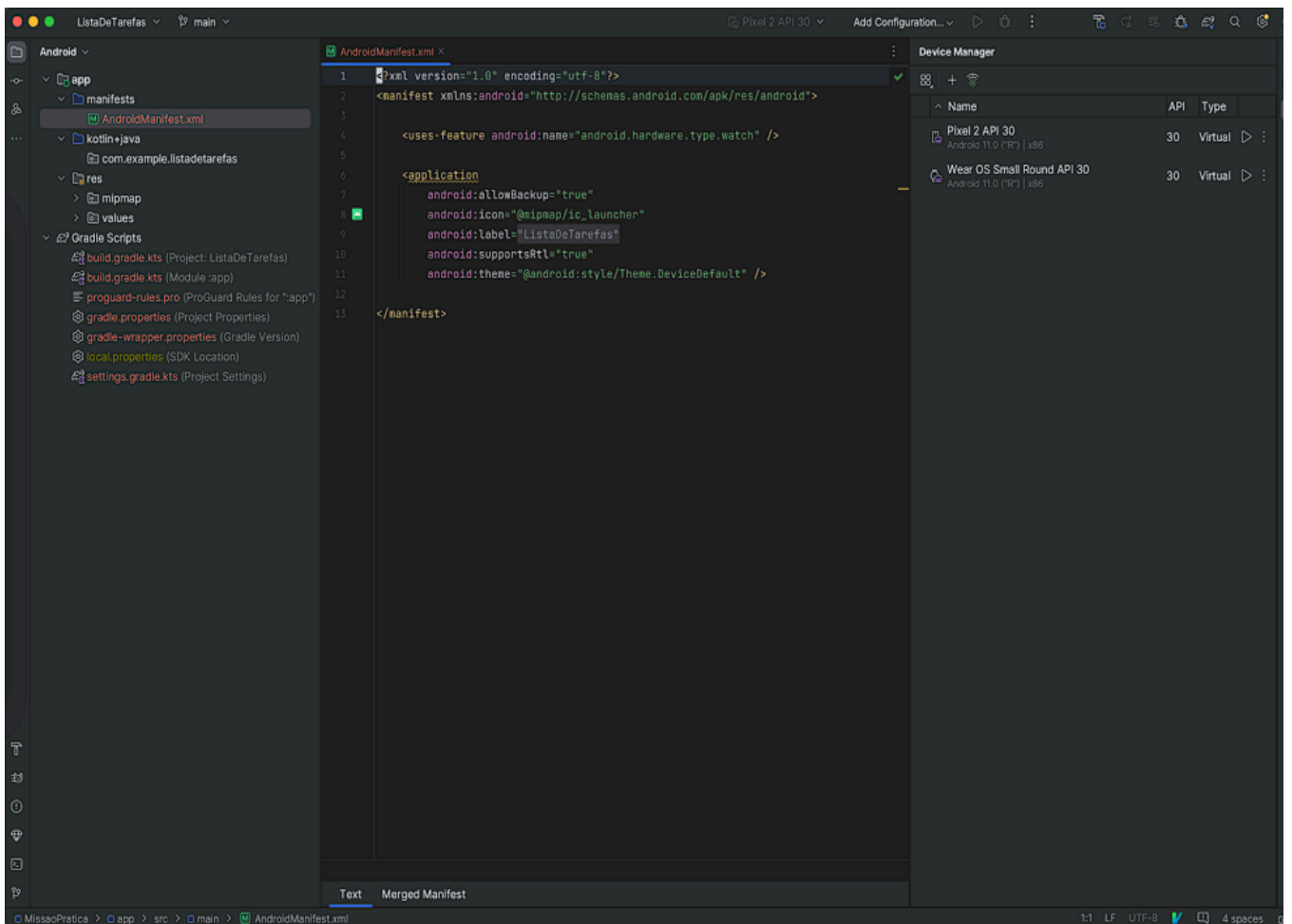
RPG0025 - Lidando com sensores em dispositivos móveis

2. Objetivos da Prática:

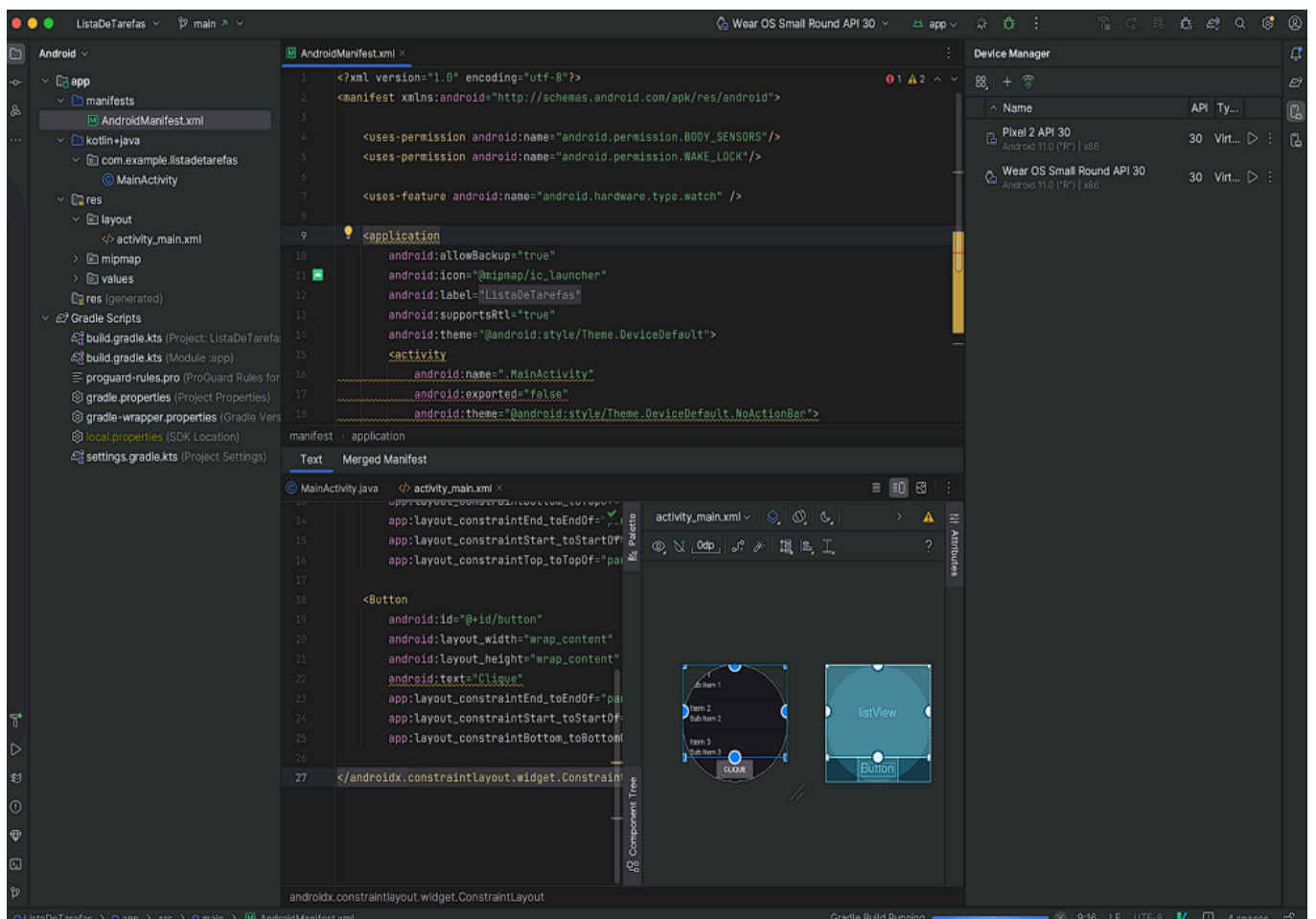
- Instalação do Android Studio e do emulador;
- Criar um app para Wear OS;
- Executar um app no emulador;
- Fazer capturas de telas no Android Studio;
- Fazer capturas de telas com app complementar.

3. Resultados da execução dos códigos:

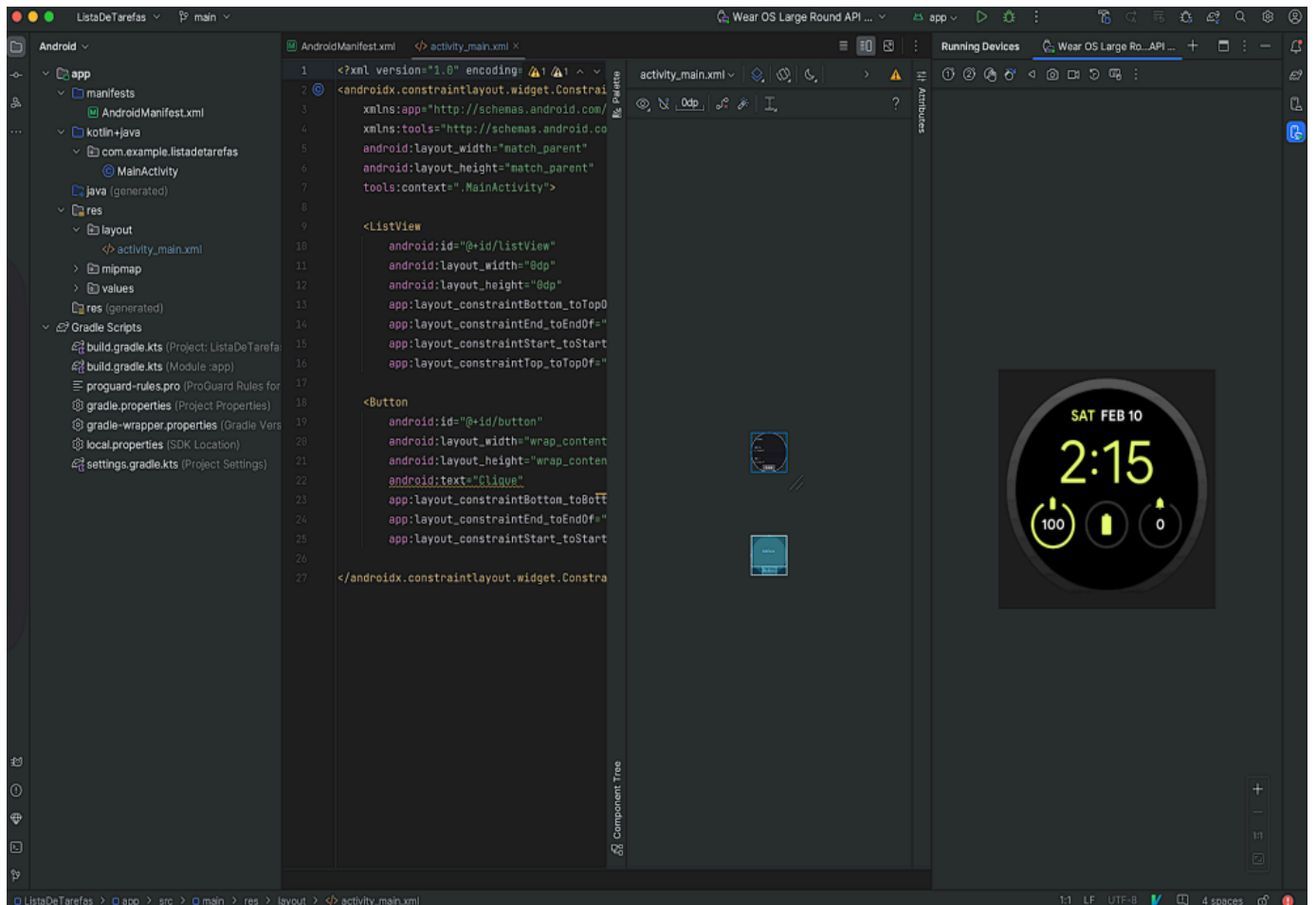
Microatividade 2: Criando um novo projeto no Android Studio



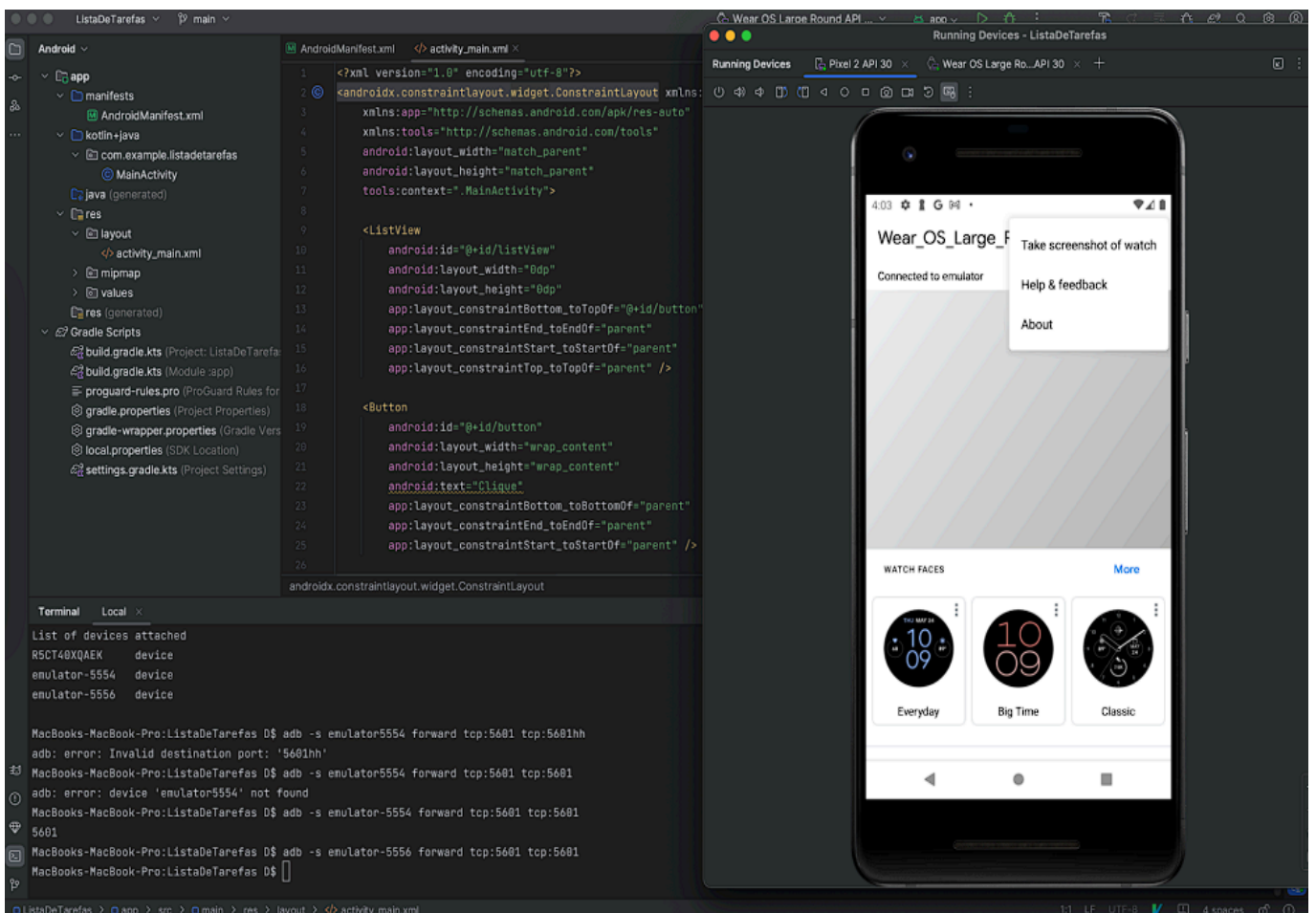
Microatividade 3: Arquivos de Lógica e Configurações

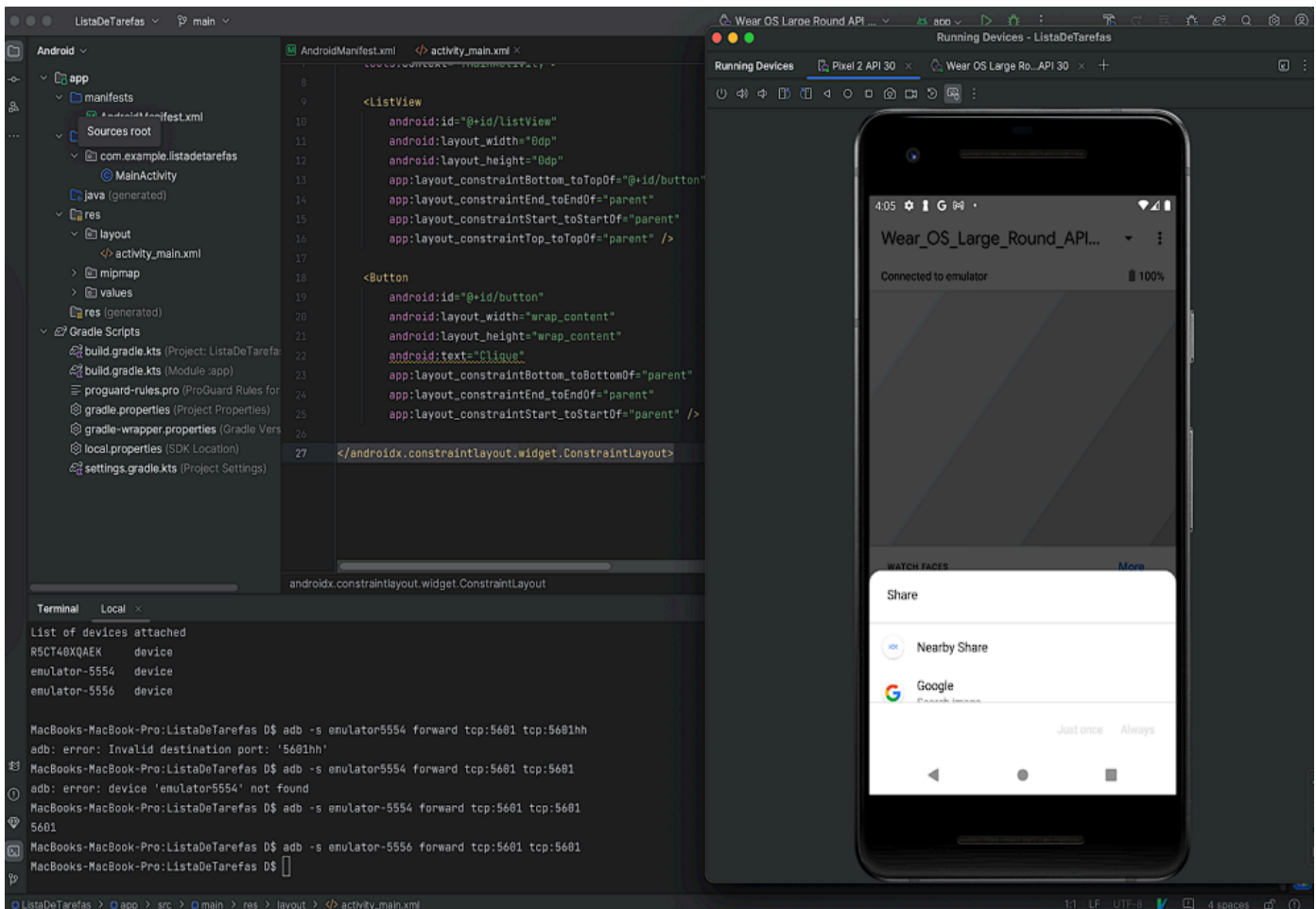
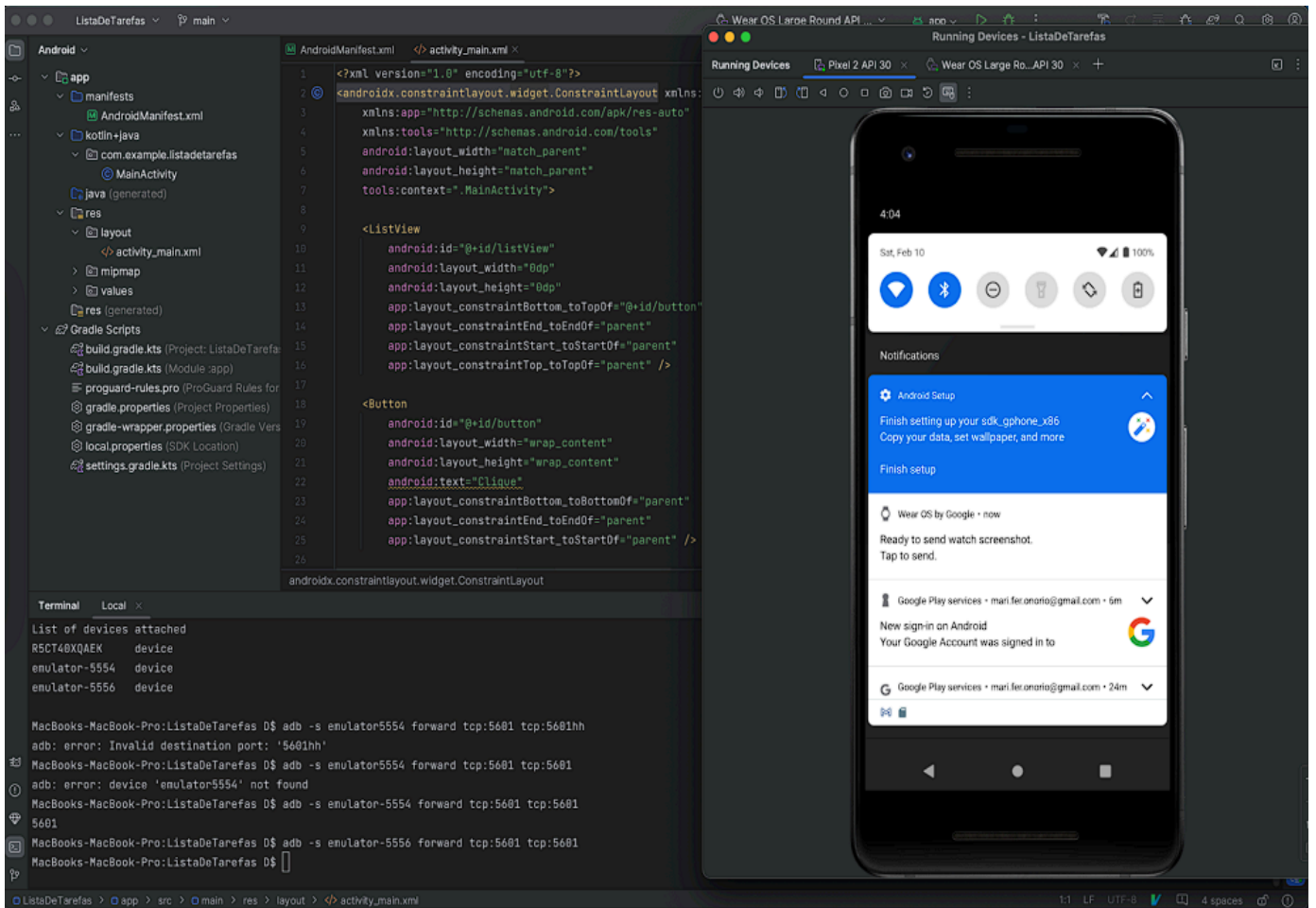


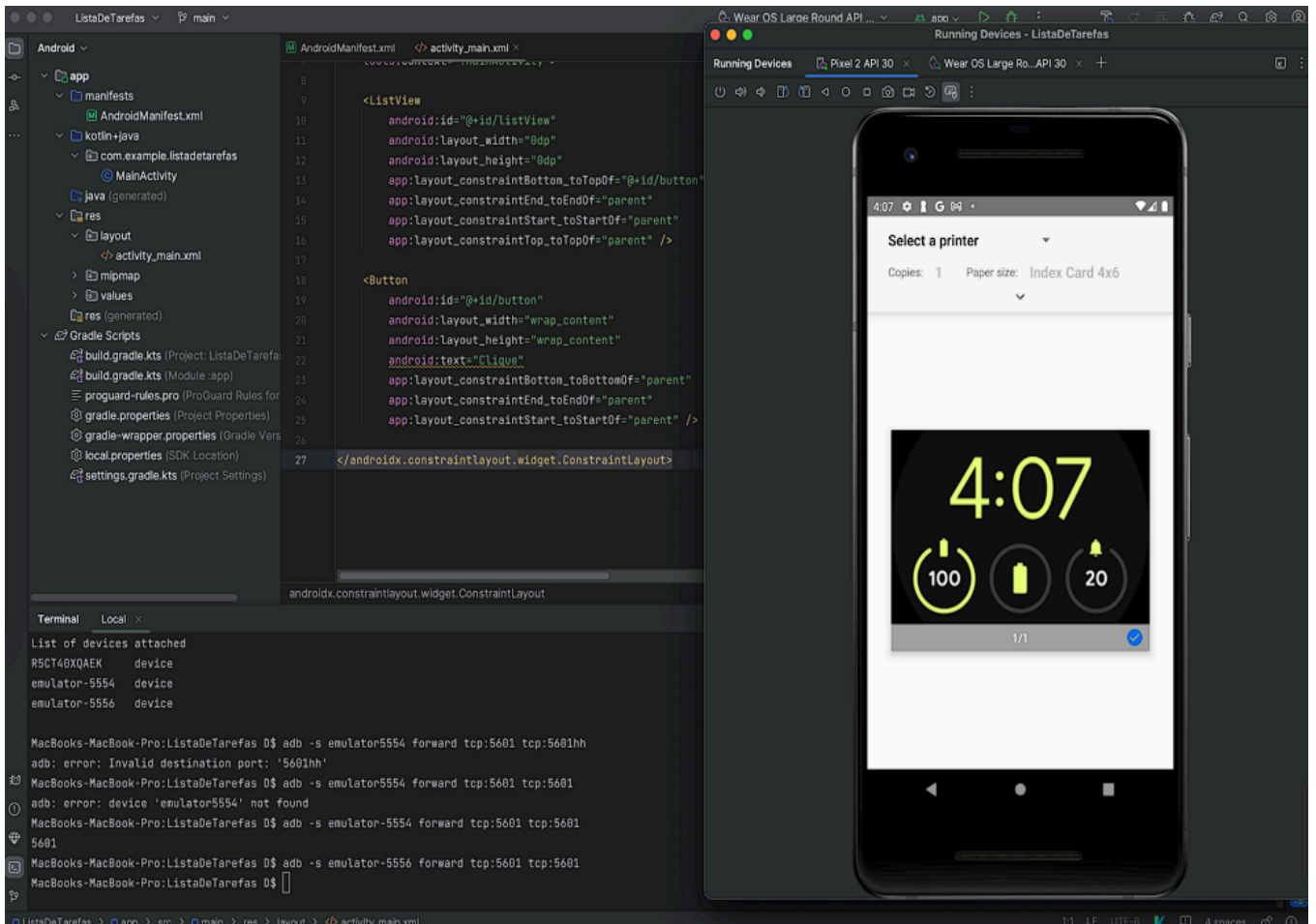
Microatividade 4: Criando um emulador



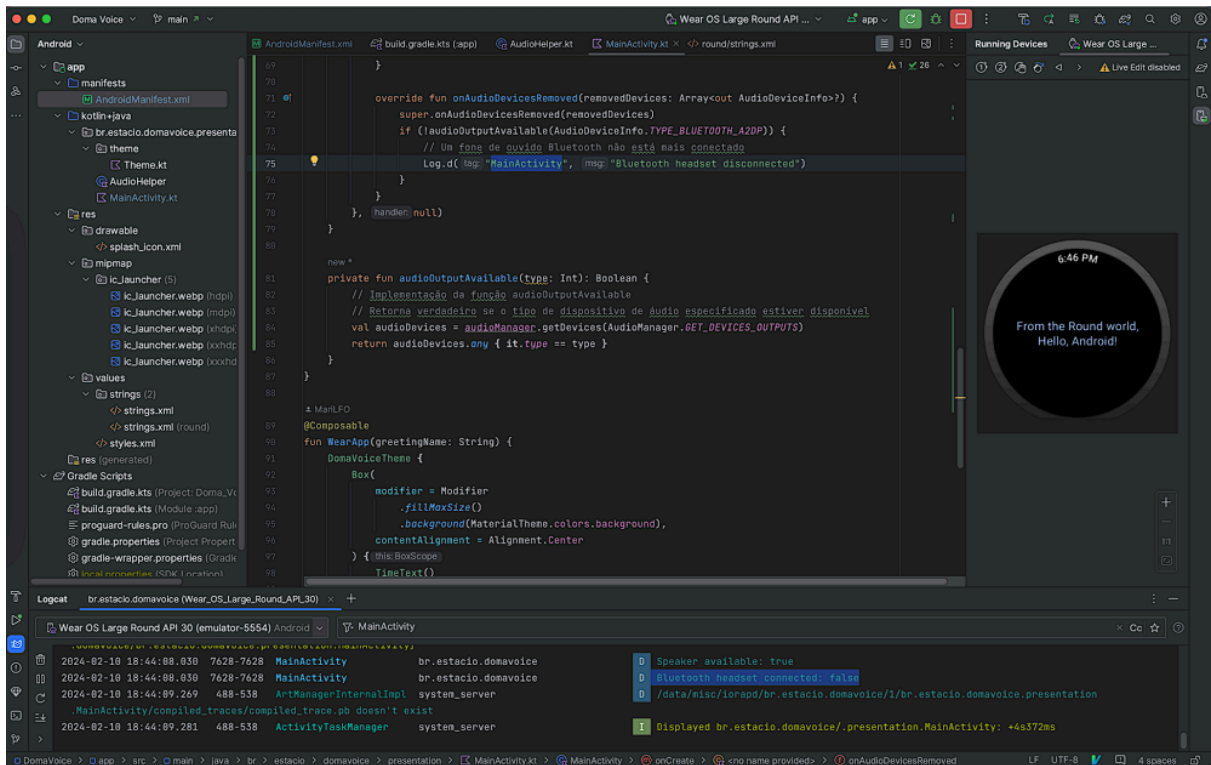
Microatividade 5: Fazer capturas de telas com app complementar



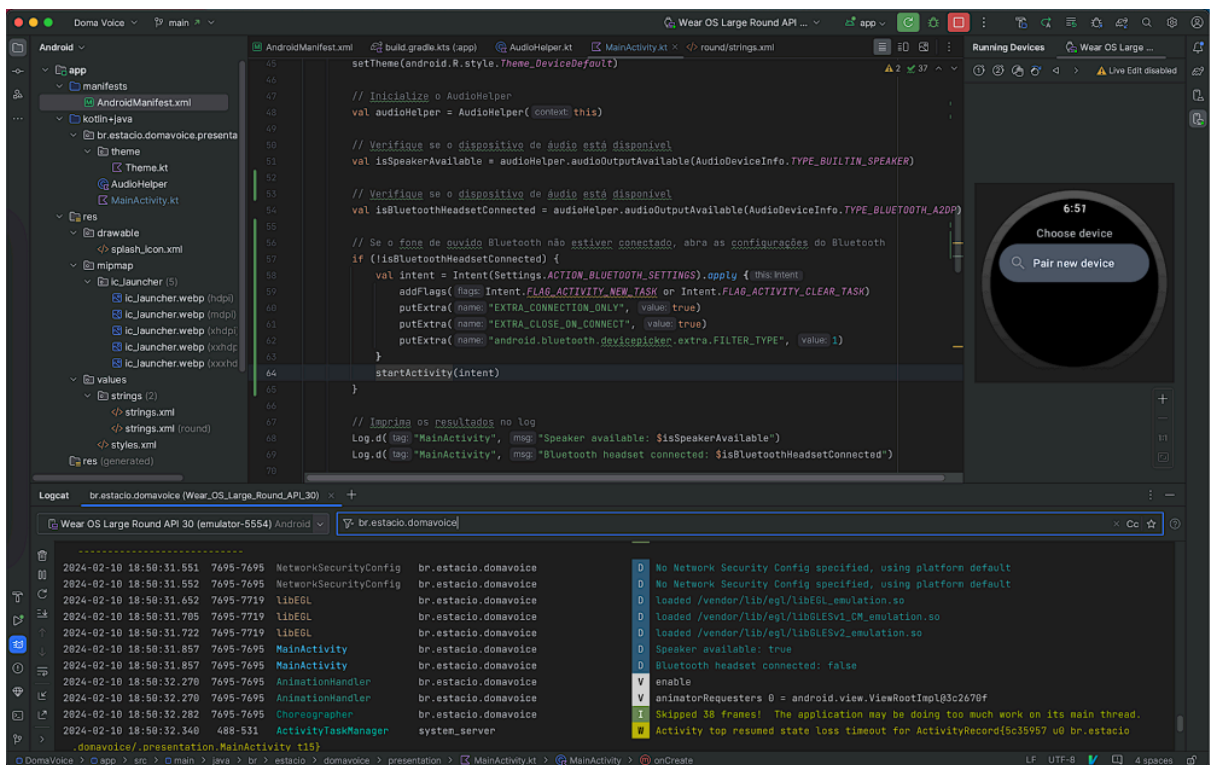




Missão Prática - Implementação de Saídas de áudio & Detecção Dinâmica de Dispositivos de Áudio:



Missão Prática - Facilitando a Conexão Bluetooth:



Missão Prática - Reprodução de Áudio & Uso de Alto-falantes em Dispositivos

Wear OS:

Android Studio interface showing the development of a Wear OS application named "Doma Voice".

Project Structure (Left Panel):

- app
 - manifests
 - AndroidManifest.xml
 - kotlin+java
 - br.estacio.domavoice.presentation
 - theme
 - Theme.kt
 - AudioHelper
 - MainActivity.kt
 - res
 - drawable
 - splash_icon.xml
 - mipmap
 - ic_launcher (5)
 - ic_launcher.webp (hdpi)
 - ic_launcher.webp (mdpi)
 - ic_launcher.webp (xhdpi)
 - ic_launcher.webp (xxhdpi)
 - ic_launcher.webp (xxxhdpi)
 - values
 - strings (2)
 - strings.xml
 - strings.xml (round)
 - styles.xml
 - res (generated)

MainActivity.kt (Center Panel):

```
70 // ...  
71  
72 if (!AudioOutputAvailable(AudioDeviceInfo.TYPE_BLUETOOTH_A2DP)) {  
73     // Um fone de ouvido Bluetooth não está mais conectado  
74     Log.d(tag: "MainActivity", msg: "Bluetooth headset disconnected")  
75 }  
76  
77 }, (handler: null)  
78  
79 // Inicialize TextToSpeech  
80 textToSpeech = TextToSpeech(context: this) { status ->  
81     if (status != TextToSpeech.ERROR) {  
82         textToSpeech.language = Locale.US  
83         textToSpeech.speak(text: "Welcome to the Doma Voice App!", TextToSpeech.QUEUE_FLUSH, params: null,  
84         )  
85     }  
86 }  
87  
88 // Inicialize SpeechRecognizer  
89 speechRecognizer = SpeechRecognizer.createSpeechRecognizer(context: this).apply { this: SpeechRecognizer }  
90 setRecognitionListener(object : RecognitionListener {  
91     override fun onReadyForSpeech(params: Bundle?) {  
92         TODO("reason: 'Not yet implemented'")  
93     }  
94  
95     override fun onBeginningOfSpeech() {  
96         TODO("reason: 'Not yet implemented'")  
97     }  
98  
99     override fun onEndOfSpeech() {  
100         TODO("reason: 'Not yet implemented'")  
101     }  
102  
103     override fun onResultsReceived(res: RecognitionResults) {  
104         TODO("reason: 'Not yet implemented'")  
105     }  
106  
107     override fun onError(error: RecognitionError) {  
108         TODO("reason: 'Not yet implemented'")  
109     }  
110  
111     override fun onEvent(event: RecognitionEvent) {  
112         TODO("reason: 'Not yet implemented'")  
113     }  
114  
115     override fun onPartialResults() {  
116         TODO("reason: 'Not yet implemented'")  
117     }  
118  
119     override fun onNoMatchFound() {  
120         TODO("reason: 'Not yet implemented'")  
121     }  
122 }  
123 }  
124 }  
125 }
```

Running Devices (Right Panel):

Wear OS Large Round API 30

7:18 PM

Welcome to the Doma Voice App!

Run (Bottom Panel):

2024-02-10 19:17:15: Launching app on 'Wear OS Large Round API 30'.
Starting: Intent { act=android.intent.action.MAIN cat=[android.intent.category.LAUNCHER] cmp=br.estacio.domavoice.presentation.MainActivity }
Open logcat panel for emulator Wear OS Large Round API 30
Connected to process 8579 on device 'Wear_OS_Large_Round_API_30 [emulator-5554]'.

Bottom status bar: DomaVoice > app > src > main > java > br > estacio > domavoice > presentation > MainActivity.kt > MainActivity > onCreate > <no name provided> 155:49 LF UTF-8 4 spaces