

PRACTICUM EXAM.

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My Read Me Document.

Introduction.

This is my Introduction to Mobile Development practicum exam and welcome to my Music Playlist Manager Application. I have been given the task to create an Android Application using Kotlin in Android Studio. This application makes use of arrays, loops, and screen navigation.

Representations of my application:

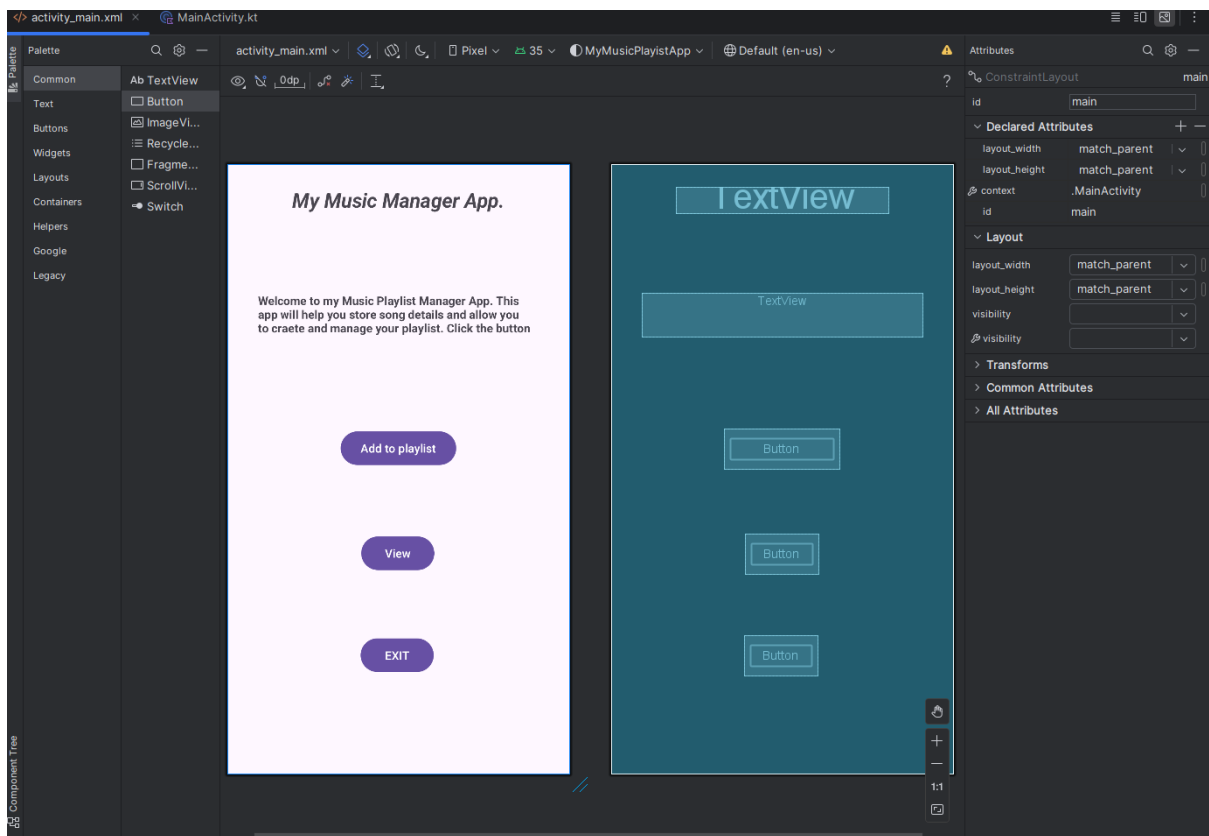
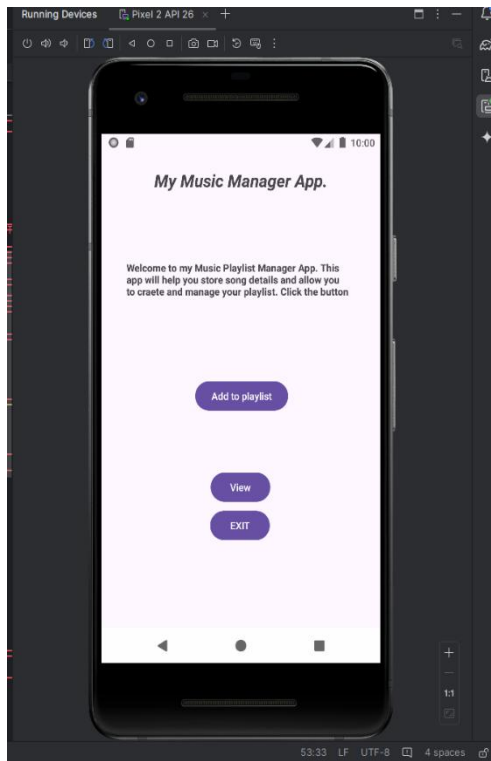


Figure 1: This is my Main Screen for my Music Playlist Manager. (College, 2025)



```

1 package vcmsa.ci.mymusicplaylistapp
2
3 import android.os.Bundle
4 import android.widget.Button
5 import android.widget.TextView
6 import android.widget.EditText
7 import androidx.activity.enableEdgeToEdge
8 import androidx.appcompat.app.AlertDialog
9 import androidx.appcompat.app.AppCompatActivity
10 import androidx.core.view.ViewCompat
11 import androidx.core.view.WindowInsetsCompat
12
13 class MainActivity : AppCompatActivity() {
14     private fun promptInput(s: String): Any {
15
16     }
17
18     override fun onCreate(savedInstanceState: Bundle?) {
19         super.onCreate(savedInstanceState)
20         enableEdgeToEdge()
21         setContentView(R.layout.activity_main)
22
23         //These are my parallel arrays for song details.
24         val songs = arrayOf("Furthest Thing", "Me&You", "Dropout", "Pink + White")
25         val artists = arrayOf("Drake", "Jems", "Dylan Sinclair", "Frank Ocean")
26         val ratings = arrayOf(4, 1, 2, 3)
27         val comments = arrayOf("Rap", "Dance Song", "Best love song", "Memories")
28
29         //These are my declarations.
30         val btnAdd = findViewById<Button>(R.id.btnAdd)
31         val btnExit = findViewById<Button>(R.id.btnExit)
32         val btnView = findViewById<Button>(R.id.btnView)
33         val input
34         val songtitle
35
36         btnAdd.setOnClickListener{
37             val songTitle = promptInput("Enter song title:")
38             val artistName = promptInput("Enter artist name:")
39             val rating = promptInput("Enter rating (1-5):")
40             val comment = promptInput("Enter comment (Rap, Dance song, Best love song, Memories):")
41
42             //This will be my if statement. (College, 2025)

```

Figure 2 & 3: This is the main screen app with the source code. (ChatGpt, 2025)& (College, 2025)

An explanation of the Main Screen:

The Main Screen's heading is **My Music Manager App**. The app display consists of a Text View welcome text explaining what the user must do. There is a button written "Add a playlist", a second button written View and a third button written Exit. When the user clicks the "Add a playlist" button, the user will be asked to enter the song details for the playlist and the songs details. (College, 2025)

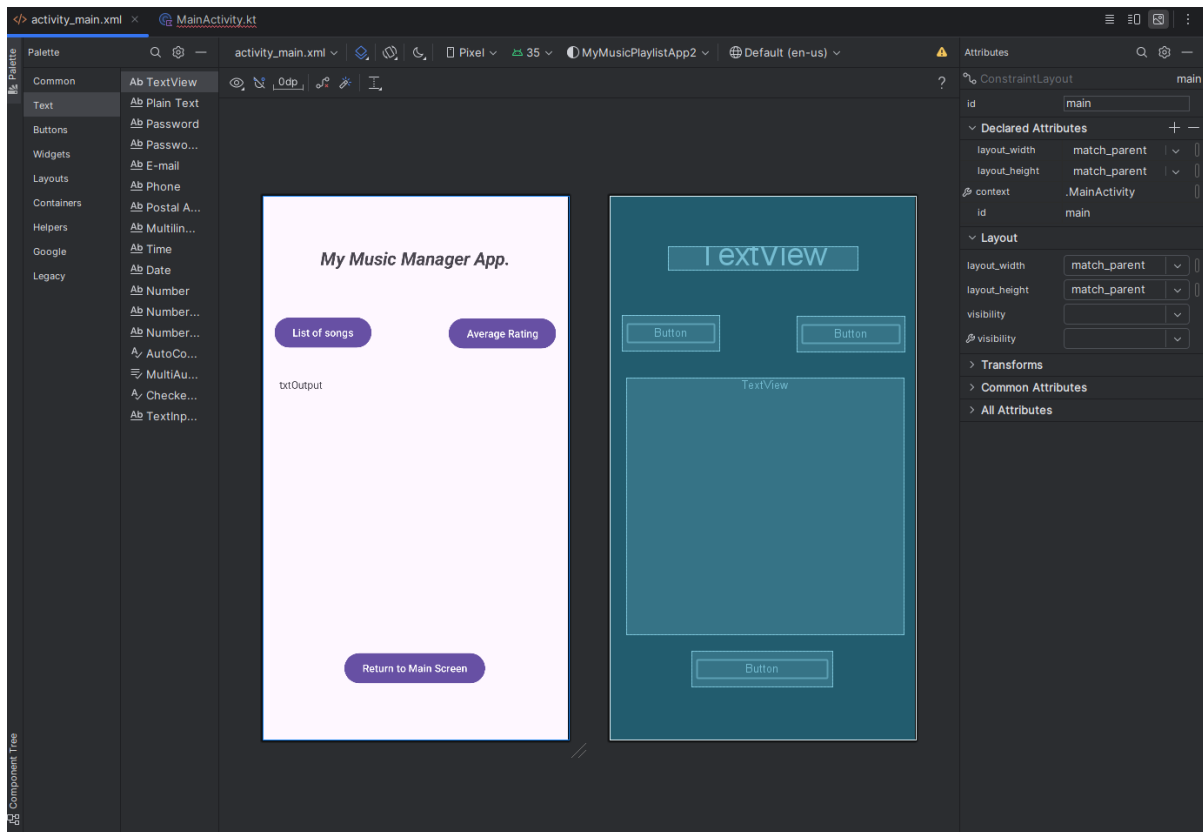


Figure 3: This is my Detailed View Screen for my Music Manager App. (College, 2025)

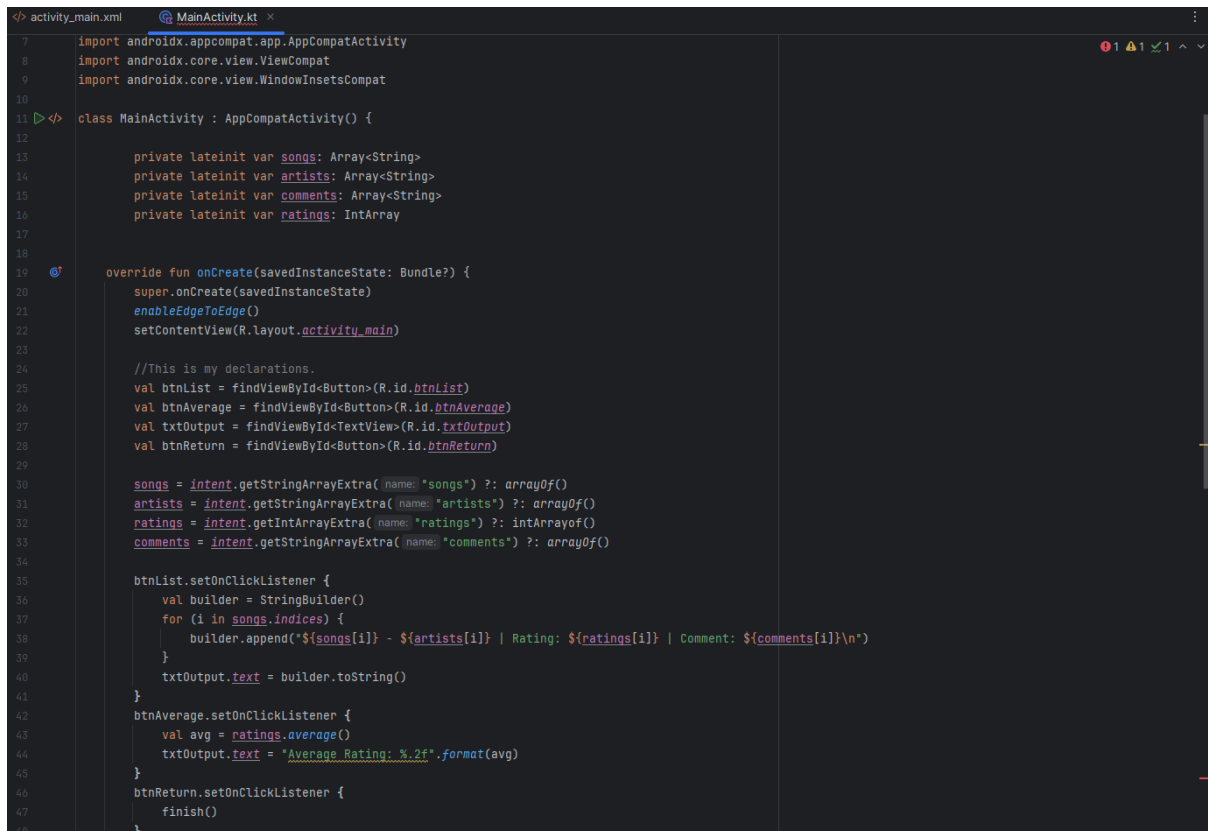


Figure 4: This is the source code for my Detailed View Screen. (College, 2025) & (ChatGpt, 2025)

An explanation of my Detailed View Screen:

The Detailed View Screen's heading will also be **My Music Manager App**. The app's display consists of button written List of songs that when clicked should display the list of songs with the corresponding details, a second button written Average Rating that when clicked should calculate and display the average rating, a third button written Return to Main Screen and a text view box that should display the output needed (College, 2025).

A Features Summary:

- This app uses **parallel arrays** for the songs, artists, ratings and comments.
- This app includes **loops** for listing and averaging.
- This app uses **navigation** between two screens.
- This app includes **error handling** for inputs.
- This app allows a **playlist addition** and **average rating calculation**.

Links:

Referencing.

Bibliography

ChatGpt. (2025). *How to create a Music Playlist Mnager App using arrays, loops and screen navigation*. A.I.

College, T. I. (2025). *Introduction to Mobile Development*. Pretoria: ARC & The IIE.