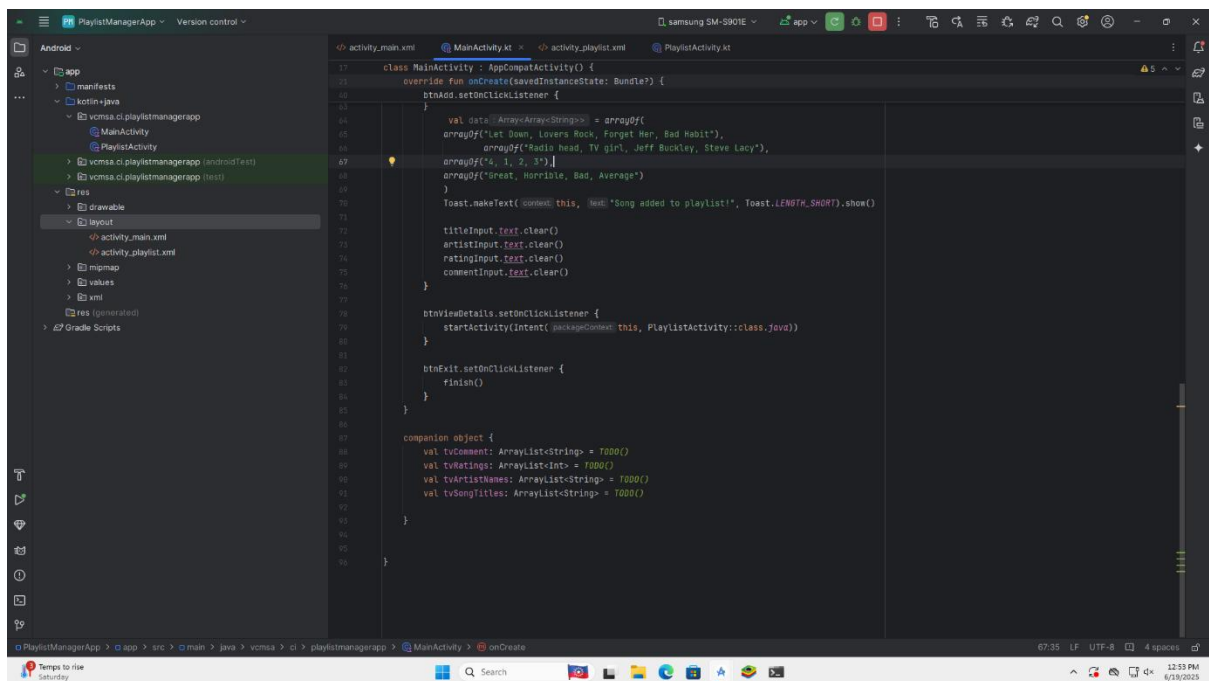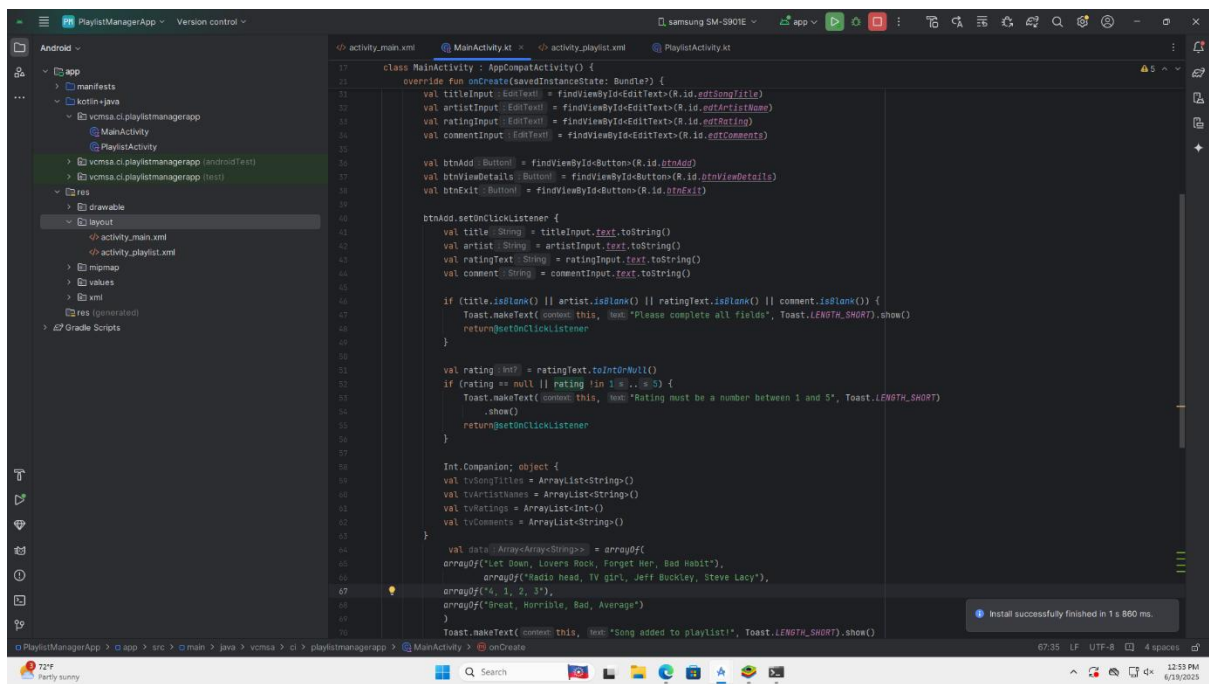README FILE

https://github.com/VCWVL/imad5112-practicum-st10488677.git

This Android app allows users to manage a simple music playlist by adding song details, viewing all songs, and calculating average ratings. The app was built using *Kotlin* in *Android Studio*, as part of a mobile development project.Add commentMore actions

Features:

- Add a new song with:

- Song Title

- Artist Name

- Rating (1–5)

- Comment

- View the full list of added songs

- Calculate and display average song rating

- Switch between *Main* and *Detailed View* screens

- Simple and user-friendly interface

- Basic input validation and error handling

Screenshot 1 — MainActivity.kt

```kotlin
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        val titleInput: EditText = findViewById<EditText>(R.id.edtSongTitle)
        val artistInput: EditText = findViewById<EditText>(R.id.edtArtistName)
        val ratingInput: EditText = findViewById<EditText>(R.id.edtRating)
        val commentInput: EditText = findViewById<EditText>(R.id.edtComments)

        val btnAdd: Button = findViewById<Button>(R.id.btnAdd)
        val btnViewDetails: Button = findViewById<Button>(R.id.btnViewDetails)
        val btnExit: Button = findViewById<Button>(R.id.btnExit)

        btnAdd.setOnClickListener {
            val title: String = titleInput.text.toString()
            val artist: String = artistInput.text.toString()
            val ratingText: String = ratingInput.text.toString()
            val comment: String = commentInput.text.toString()

            if (title.isBlank() || artist.isBlank() || ratingText.isBlank() || comment.isBlank()) {
                Toast.makeText(this, "Please complete all fields", Toast.LENGTH_SHORT).show()
                return@setOnClickListener
            }

            val rating: Int? = ratingText.toIntOrNull()
            if (rating == null || rating !in 1 .. 5) {
                Toast.makeText(this, "Rating must be a number between 1 and 5", Toast.LENGTH_SHORT)
                    .show()
                return@setOnClickListener
            }

            Int.Companion; object {
            val tvSongTitles = ArrayList<String>()
            val tvArtistNames = ArrayList<String>()
            val tvRatings = ArrayList<Int>()
            val tvComments = ArrayList<String>()
            }

            val data: Array<Array<String>> = arrayOf(
            arrayOf("Let Down, Lovers Rock, Forget Her, Bad Habit"),
                arrayOf("Radio head, TV girl, Jeff Buckley, Steve Lacy"),
            arrayOf("4, 1, 2, 3"),
            arrayOf("Great, Horrible, Bad, Average")
            )
            Toast.makeText(this, "Song added to playlist!", Toast.LENGTH_SHORT).show()
```

Install successfully finished in 1 s 860 ms.

Screenshot 2 — MainActivity.kt

```kotlin
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        btnAdd.setOnClickListener {
            }

                val data: Array<Array<String>> = arrayOf(
                arrayOf("Let Down, Lovers Rock, Forget Her, Bad Habit"),
                    arrayOf("Radio head, TV girl, Jeff Buckley, Steve Lacy"),
                arrayOf("4, 1, 2, 3"),
                arrayOf("Great, Horrible, Bad, Average")
                Toast.makeText(this, "Song added to playlist!", Toast.LENGTH_SHORT).show()

                titleInput.text.clear()
                artistInput.text.clear()
                ratingInput.text.clear()
                commentInput.text.clear()
            }

            btnViewDetails.setOnClickListener {
                startActivity(Intent(this, PlaylistActivity::class.java))
            }

            btnExit.setOnClickListener {
                finish()
            }
        }

        companion object {
            val tvComment: ArrayList<String> = TODO()
            val tvRatings: ArrayList<Int> = TODO()
            val tvArtistNames: ArrayList<String> = TODO()
            val tvSongTitles: ArrayList<String> = TODO()
        }
    }
}
```