📱 Profile Card App – Documentation

# 1. Overview

The Profile Card App is an Android application built with Jetpack Compose and Material 3,

designed to showcase a user’s personal profile in an interactive and visually appealing way.

It allows users to navigate between different sections such as My Bio, Education, Experience, Skills,

Position of Responsibility (PoR), and Extra Curricular activities, giving the feel of a digital portfolio.

# 2. Features

- Profile Header Section: Displays background image and profile picture with name, role, and contact info.

- Interactive Navigation: A horizontal scroll (LazyRow) lets users switch between profile sections.

- Section-based Information:

• My Bio – Personal introduction.

• Education – Academic qualifications.

• Experience – Work and internship details.

• Skills – Technical expertise.

• PoR – Leadership roles.

• Extra Curricular – Cultural, technical, and sports events.

- Responsive UI with Jetpack Compose’s LazyColumn and LazyRow.

# 3. Tech Stack

- Language: Kotlin

- Framework: Jetpack Compose

- UI Toolkit: Material 3, Compose Foundation

- Architecture: Declarative UI with @Composable functions

- Image Resources: Local drawables (face2, background, icons)

# 4. Project Structure

com.example.profilecardappmine

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├── MainActivity.kt # Entry point, loads ProfileScreen()

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├── ProfileScreen() # Main screen with header, navigation, and section content

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├── Section Composables: # Each section handled separately

│ ├── MyBio()

│ ├── Education()

│ ├── Experience()

│ ├── Skills()

│ ├── PoR()

│ └── ExtraCurricular()

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└── ui.theme/ # Theme settings for Material3

# 5. UI Flow

1. App Bar – Title `.portfolio`

2. Header Section – Background + profile picture + name + profession.

3. Contact Information – Phone, email, department.

4. Section Navigation – LazyRow to switch between sections.

5. Dynamic Content – LazyColumn loads section data.

# 6. How It Works

- ProfileScreen() holds layout.

- mutableStateOf variable tracks selectedSection.

- When a user taps a section in LazyRow, selectedSection updates.

- A when block loads the correct Composable (MyBio, Education, etc.).

# 7. Usage Instructions

1. Clone the project into Android Studio.

2. Place images/icons in res/drawable (background, face2, phone, email, dept).

3. Run the app on emulator/physical device.

4. Swipe horizontally across sections to view details.

# 8. Possible Enhancements

- Add animations when switching sections.

- Fetch profile data from JSON/API instead of hardcoding.

- Add dark mode support.

- Include download/share resume functionality.

- Store contact details in Room database or DataStore.