

Weather Forecast App



Android Application Project | IT Expert
Systems, Inc. | Internship 2025

Our Team



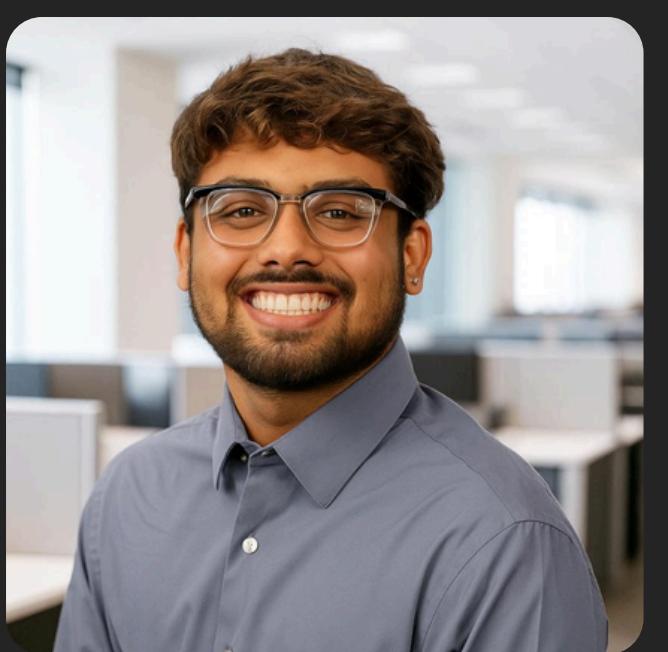
Tatyana

QA Engineer



Tetiana

Project manager, Android
Developer



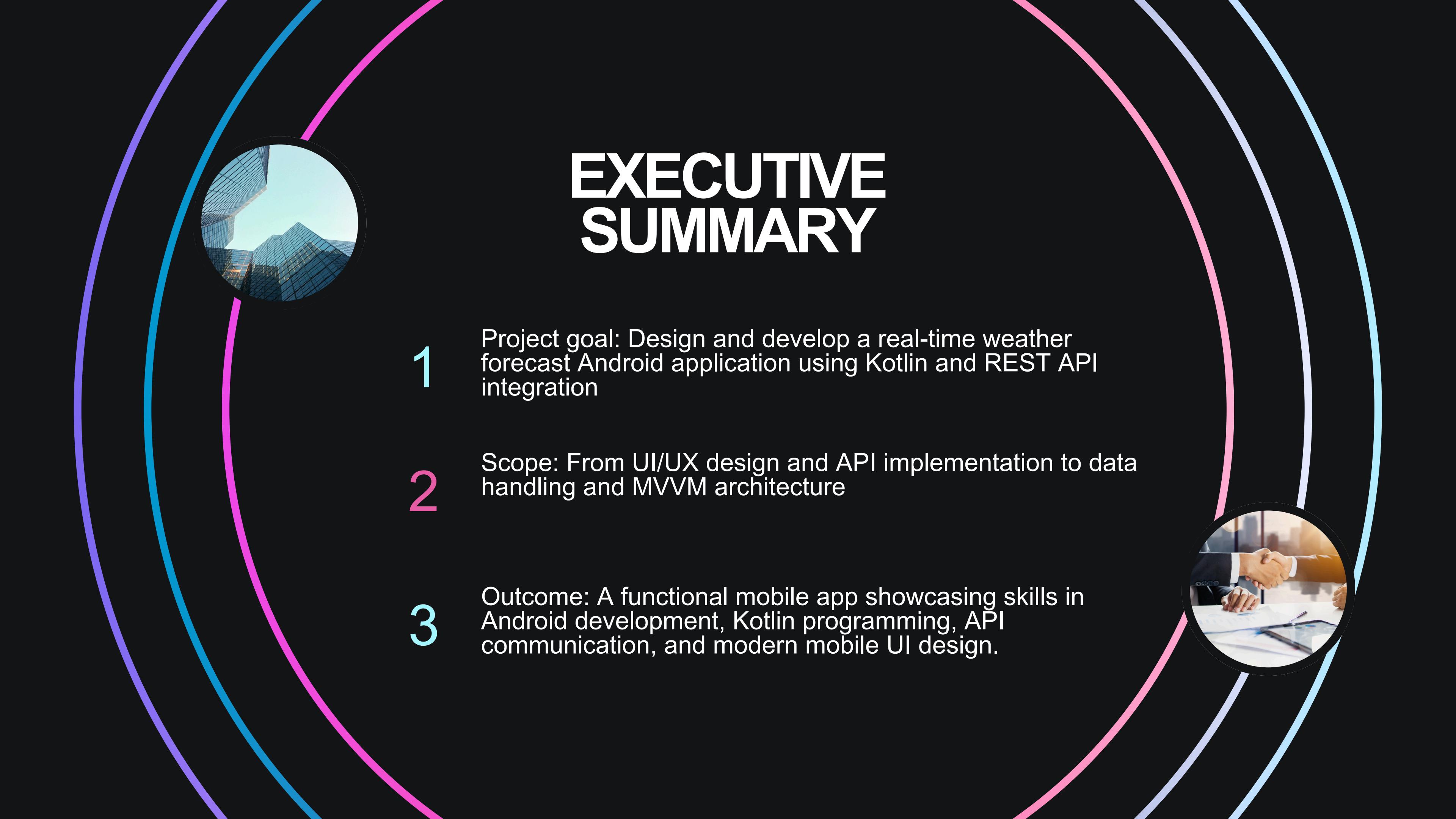
Jeet

Android Developer



Nazar

Android Developer, UI/UX
Designer



EXECUTIVE SUMMARY

- 1 Project goal: Design and develop a real-time weather forecast Android application using Kotlin and REST API integration
- 2 Scope: From UI/UX design and API implementation to data handling and MVVM architecture
- 3 Outcome: A functional mobile app showcasing skills in Android development, Kotlin programming, API communication, and modern mobile UI design.



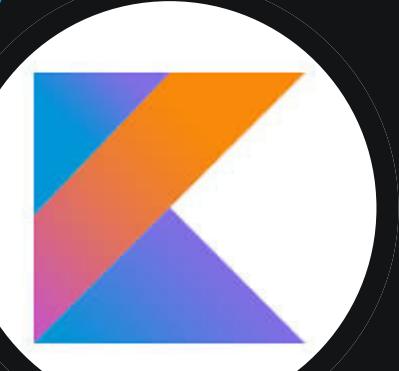
Technology Stack

1 Language: Kotlin

2 IDE: Android Studio

3 Design: XML Layouts, ConstraintLayout

4 Tools: Git, Trello, Canva, ChatGPT



What is Kotlin/Android Studio

What is it?

Android Studio is the official tool for building Android apps. It's made by Google and used by developers around the world.

Benefits:

- Smart code suggestions
- Drag-and-drop UI design
- Built-in phone emulators
- Great for beginners and advanced developers

Programming Language: Kotlin

- Modern, easy-to-read language supported by Google
- Works well with Android Studio for fast, stable app development
- Helps avoid bugs with null safety and clean syntax

Project Objectives

Objective 1

 **Build a mobile app that shows real-time weather updates**

Objective 2

 Let users check the weather by typing a city name or using their current location

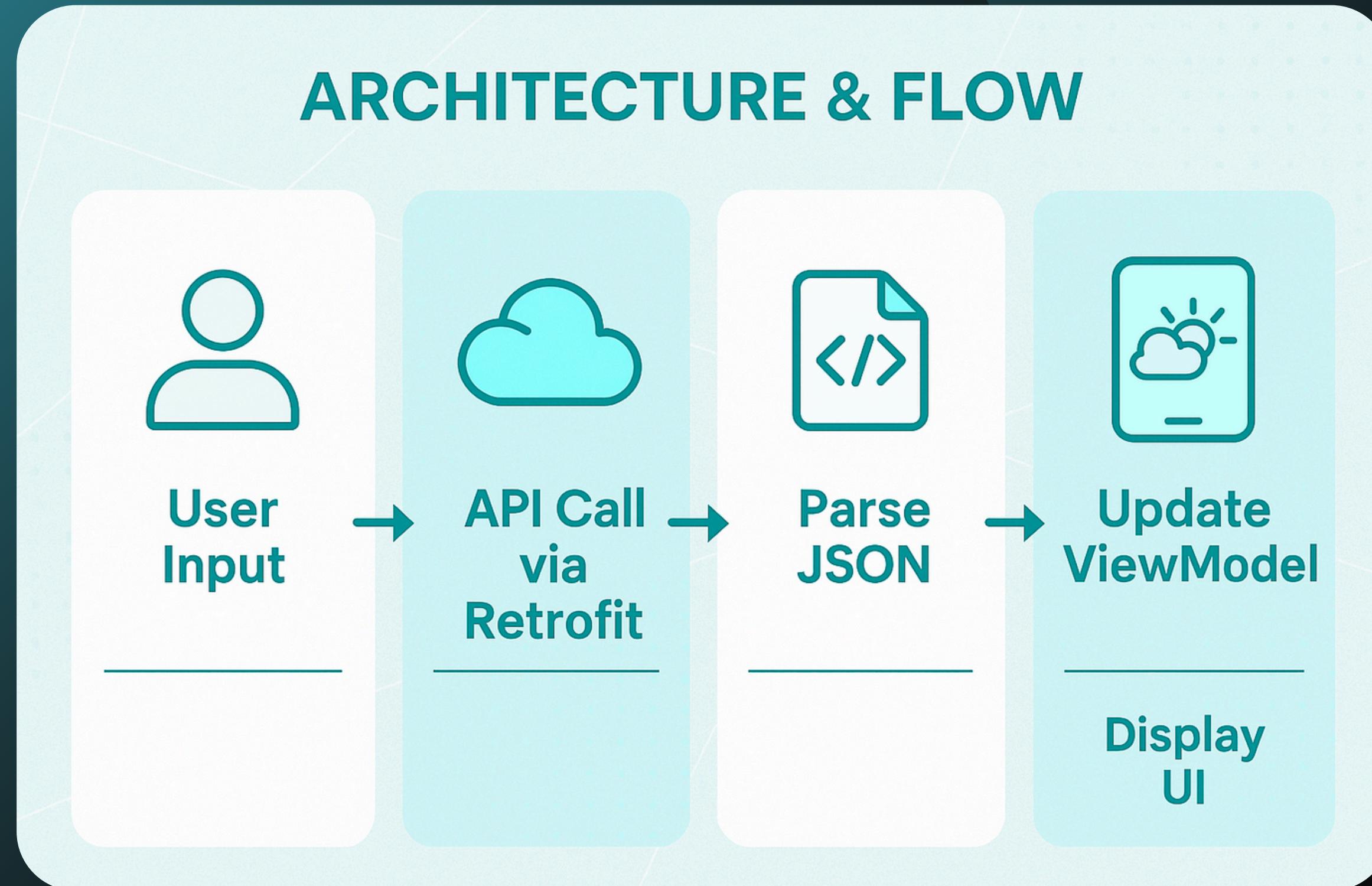
Objective 3

 Display clear weather info like temperature, conditions, and wind speed

Objective 4

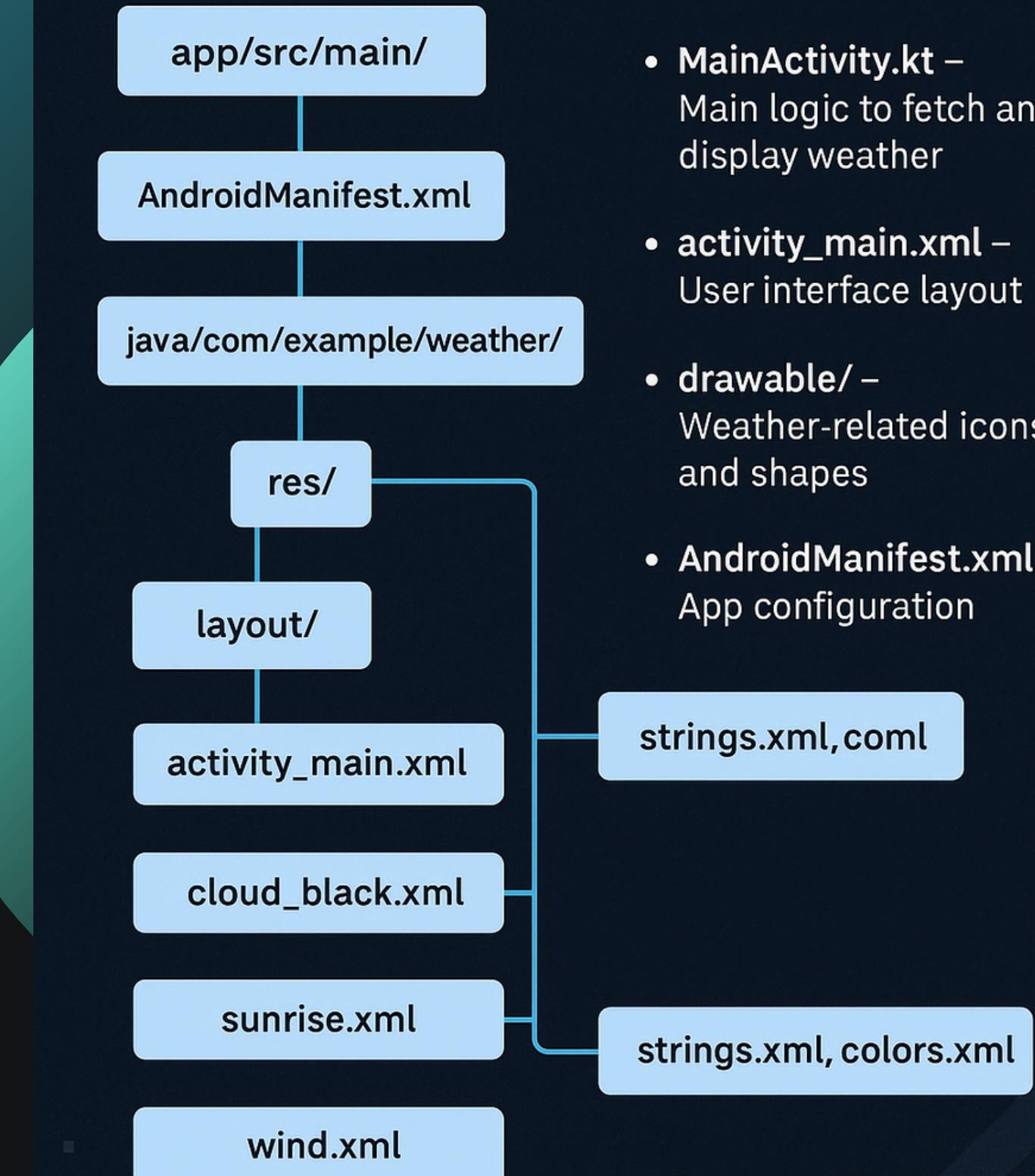
 Make the app easy to use, clean, and responsive on all Android devices

Architecture & Flow



Kotlin Project Structure

PROJECT STRUCTURE KOTLIN & RESOURCES



Key Achievements

✓ Functional Mobile App

- Designed and built a real-time weather forecast app using Kotlin

🔗 API Integration

- Connected with OpenWeatherMap API using Retrofit

■ Clean & Responsive UI

- Built intuitive interfaces with ConstraintLayout

🤝 Team Collaboration

- Used Trello, WhatsApp, and Google Meet to organize tasks and meetings

Lessons Learned

- The importance of clean code and architecture
- How to debug API and UI issues
- Discovered the importance of a clean and simple interface
- Tested app performance across devices and edge cases

Thank You

**Now our team members
will show the live demo**