

# Mobile App Development II – Group Project Guideline

## Group Formation

- Each group must consist of **4, 5, to 6 members**.
  - Groups must finalize and submit their **member list by Week 2**
- 

## Technology Stack

Each group must choose **one** of the following:

### Option A: Native Android (Kotlin)

Mandatory tech stack:

- **Kotlin**
- **Jetpack Compose** for UI
- **MVVM architecture**
- **Coroutines** for async operations
- **Dependency Injection (Hilt)**

### Option B: Flutter

Mandatory tech stack:

- **Flutter**
  - **Dart**
  - **Clean Architecture** or **MVVM**
  - **State Management** (e.g., Provider)
- 

## Project Type – Choose One

### 1. App Replication (No Figma required)

- Select an **existing app from any store** (Google Play / App Store).
- Define a **feasible scope** that can be realistically built in 3 months.
- You are **allowed and encouraged** to improve the UI/UX.

- Design inspiration can be taken directly from the existing app.

## 2. New Project Idea

- Create your own **original app concept**.
  - Must include **UI design using Figma** (keep it simple and minimal).
  - Your design should reflect core screens and workflows of the app.
- 

## Mandatory Project Documentation (Both options)

Each group must prepare:

1. **Problem Statement**

Clearly define the problem your app is solving or the purpose of the app.

2. **Features List**

List out the core features your app will implement.

3. **User Stories**

Use this format:

*As a [user], I want to [do something] so that [reason]*

*(E.g. As a user, I want to favorite a recipe so I can find it later easily.)*

4. **Backend Integration**

Your app **must be connected to a backend**.

- You may use Firebase, Supabase, or build your own backend using Node.js, Python, php, Json-Server etc.

5. **GitHub Repository**

- Use GitHub for version control and collaboration.
  - Project must include:
    - Branching strategy (feature branches, main/dev)
    - Commit history with meaningful messages
- 

## Project Timeline

### Step 1: Topic Presentation to Lecturer

#### Deadline: Week 3

Each group must present:

- App category and type (replication or new idea)
- Chosen tech stack
- Initial feature list

- Problem statement
- (If new idea: Figma mockup – Simple layout is enough. No need fancy design)

Feedback will be given for feasibility and scope adjustment.

---

## Step 2: Final Presentation + Demo

### Deadline: Week 13

Each group will:

- Slide presentation on
    - Problem statement
    - Features
    - Technology Stack
    - UI Design
  - Walk through core features
  - Show backend interaction
  - Demonstrate collaboration via GitHub
- 

## Tips for Success

- Split features into **modules** early.
- Do **weekly check-ins** within the team.
- Focus on building **something complete**, even if it's small.