

# Mobile Application Development: Project Template

This project template ensures consistent progress. Each student must share a GitHub repository for their project, along with a zip file containing the project files, and a video demonstration of the app. Each week, students will deliver 20% of the total project work, with evaluations via viva. The weekly breakdown is as follows:

## **Week 1: Setup Environment & Initial UI Design (20%)**

Tasks:

- Set up the development environment (Android Studio).
- Build a basic version of the app's UI, focusing on key screens (4-5 screens such as login, home, profile, etc.).

Deliverables:

- Basic app layout with 4-5 screens.
- Initial code setup and repository creation on GitHub.
- Video demonstration of the current progress.

## **Week 2: Expand UI with Navigation & Additional Screens (40%)**

Tasks:

- Implement bottom navigation bar or navigation drawer for easy screen switching.
- Add 3 more screens to the app (e.g., settings, notifications, or a feature screen).

Deliverables:

- Bottom navigation or navigation drawer functionality.
- Complete UI with a total of 7-8 screens.
- GitHub update, zip file submission, and video demonstration.

## **Week 3: Backend Integration for Initial Screens (60%)**

Tasks:

- Implement core backend features (e.g., authentication, user data handling) for 2-3 screens.
- Integrate API calls or database functionality (Firebase, SQL, etc.).

Deliverables:

- Backend functionality implemented for key screens (login, signup, user profile).
- GitHub update, tested API/database integration.

- Zip file and updated video demonstration.

## **Week 4: Complete Backend & Frontend Integration (80%)**

### Tasks:

- Complete the integration of the backend for all remaining screens.
- Perform thorough testing of all features and interactions between frontend and backend.

### Deliverables:

- Fully functioning app with backend integrated for all screens.
- GitHub update, zip file submission, and video demonstration.

## **Week 5: Final Touches, Debugging, Optimization & Documentation (100%)**

### Tasks:

- Finalize debugging, app performance optimization, and UI/UX improvements.
- Add user and developer documentation (README, in-app guides).

### Deliverables:

- Complete app with backend and frontend fully functional.
- Final GitHub update, project zip file, and video demonstration of the app.
- Final project presentation or demo video.