# Corvit Systems – Android Mobile Application

## WEEK 1 — Authentication + Project Setup

This week is basically laying the foundation so the whole thing doesn't collapse like a cheap tripod.

Tasks

1. *Project Setup*

   o Create Android project (Compose + Navigation)

   o Connect Firebase project

   o Setup Firestore + Storage structure

2. *Authentication Module*

   o Login screen UI

   o Signup screen UI

   o Firebase Auth integration

   o Error handling (invalid email, wrong password)

   o Store user document in Firestore (name, email, userId)

3. *Navigation Flow*

   o Splash screen

   o Route user → login/signup → home

Output at end of Week 1

- App opens → login → home screen
- Firebase fully connected
- Basic navigation ready

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## WEEK 2 — Courses (List + Details + Enrollment)

This is the week you build the "LMS feel" of the app.

Tasks

1. *Course List*

- o Firestore fetching
- o Course cards UI (LazyColumn)
- o Loading + error states

2. *Course Details*
   - o Course header
   - o Description
   - o Curriculum list (text-based)
   - o Trainer info

3. *Enrollment System*
   - o Enroll button functionality
   - o Save enrollment to Firestore
   - o Create "My Courses" screen

Output at end of Week 2

- User can browse courses
- User can view details
- User can enroll
- "My Courses" shows what they joined

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## WEEK 3 — Recorded Videos + Notifications + Profile

This is the week where things finally start looking like a real app.

Tasks

1. *Recorded Videos*
   - o Firebase Storage setup
   - o Link video URLs in Firestore
   - o ExoPlayer integration
   - o Lecture list per course

2. *Notifications*
   - o Configure Firebase Cloud Messaging

- o Receive push notifications
- o Test sample notifications

3. *Profile Screen*

- o Profile UI
- o Fetch user info
- o Edit name (optional photo)
- o Update Firestore

Output at end of Week 3

- Courses now have playable recorded lessons
- Push notifications working
- User can view/edit their profile

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# WEEK 4 — UI Polish + Testing + Stability

This is the week you stop the app from looking like a final-year project.

Tasks

1. *UI Cleanup*

- o Colors
- o Spacing
- o Typography
- o Bottom navigation
- o Consistent design across screens

2. *App Stability*

- o Fix crashes
- o Add loading states
- o Add error states
- o Handle no-internet gracefully

3. *Final Setup*

- o App icon

- o Branding (logo, splash)

- o Internal testing & bug fixes

- o Prepare APK for soft launch

## Output at end of Week 4

- A smooth, stable MVP

- Clean UI

- Everything from login → enrollment → videos works

- Ready for soft launch

4-Week App Development Gantt Chart (Simple)