

## Project Planning Phase

### Product Backlog, Sprint Schedule, and Estimation:

Sprint No	Duration (Weeks)	Start Date	End Date	Goals / Deliverables	Estimation	Notes
Sprint 1	1	2025-05-01	2025-05-07	Requirement analysis, Firebase setup, architecture design	10	Setup Firebase (Auth, Firestore), design app flow
Sprint 2	1	2025-05-08	2025-05-14	Compose UI screens development	12	Build Login, Signup, ChatRoom list, Message UI
Sprint 3	1	2025-05-15	2025-05-21	Backend API and Firebase Integration	13	Integrate Auth, Firestore, Messaging via Firebase
Sprint 4	1	2025-05-22	2025-05-28	Real-time messaging logic, chat room features	14	Join/create room, send/receive messages in real-time
Sprint 5	2	2025-05-29	2025-06-11	Notification, personalization, testing & deployment	15	Push notifications, user settings, final testing

### Product Backlog, Sprint Schedule, and Milestone Description and Deliverables:

Sprint No	Start Date	End Date	Milestone Description	Deliverables
Sprint 1	2025-05-01	2025-05-07	Project kickoff, requirement analysis, Firebase setup	Requirements doc, Firebase (Auth, Firestore) initialized
Sprint 2	2025-05-08	2025-05-14	UI Design and Compose implementation	UI for Login, Signup, Chat list and Message screens
Sprint 3	2025-05-15	2025-05-21	Firebase integration with backend logic	Functional Auth, chat data handling via Firestore
Sprint 4	2025-05-22	2025-05-28	Real-time messaging and chat room functionality	Working chat rooms, real-time send/receive features
Sprint 5	2025-05-29	2025-06-11	Notification setup, personalization, testing	Push notifications, settings UI, tested and deploy-ready