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| **Project Planning Phase**      **Product Backlog, Sprint Schedule, and Estimation:** | | | | | | |  |
|  | **Sprint No** | **Duration (Weeks)** | **Start Date** | **End Date** | **Goals /**  **Deliverables** | **Estimation** | **Notes** |
| Sprint 1 | 1 | 2025-06-  01 | 2025-06-  07 | Requirement analysis, Firebase setup, architecture design | 10 | Setup Firebase  (Auth,  Firestore), design app flow |
| Sprint 2 | 1 | 2025-06-  08 | 2025-06-  14 | Compose UI screens development | 12 | Build Login,  Signup,  ChatRoom list,  Message UI |
| Sprint 3 | 1 | 2025-06-  15 | 2025-06-  21 | Backend API  and Firebase  Integration | 13 | Integrate Auth,  Firestore,  Messaging via  Firebase |
| Sprint 4 | 1 | 2025-06-  22 | 2025-06-  28 | Real-time messaging logic, chat room  features | 14 | Join/create room, send/receiv e messages in real-time |
| Sprint 5 | 2 | 2025-06-  29 | 2025-07-  01 | Notification, personalization, testing & deployment | 15 | Push notifications, user settings, final testing |
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| **Product Backlog, Sprint Schedule, and Milestone Description and Deliverables:** | | | | | |
|  | **Sprint No** | **Start Date** | **End Date** | **Milestone Description** | **Deliverables** |
| Sprint 1 | 2025-0-01 | 2025-06-07 | Project kickoff, requirement analysis, Firebase setup | Requirements doc,  Firebase (Auth,  Firestore) initialized |
| Sprint 2 | 2025-06-08 | 2025-06-14 | UI Design and Compose implementation | UI for Login, Signup, Chat list and Message screens |
| Sprint 3 | 2025-06-15 | 2025-06-21 | Firebase integration with backend logic | Functional Auth,  chat data handling via Firestore |
| Sprint 4 | 2025-06-22 | 2025-06-28 | Real-time messaging and chat room functionality | Working chat rooms, real-time send/receive features |
| Sprint 5 | 2025-06-29 | 2025-07-01 | Notification setup, personalization, testing | Push notifications, settings UI, tested and deploy-ready |
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