

Total Time: 1 Month (4 Weeks)

Team Composition:

- Authentication Team (1 members): Login and signup functionality.
- Chat Team (2 members): Chat feature.
 - Group (same 2 members): Creation and management of teams/groups.
- Teams (Spaces) (3 members): Develop team space functionalities.
- Calls (2 members): Video and audio call features.
- Homepage Team (2 member): Homepage design and functionality.
 - Report & Website Team (same 2 member): Progress report and company website.

Week 1: Setup and Initial Development

- Authentication Team:
 - Frontend: Design UI for login and signup pages using React.
 - Backend: Start learning about authentication services (e.g., Firebase Auth).
- Chat Team:
 - Frontend: Create a basic chat interface with React.
 - Backend: Begin learning about real-time databases (e.g., Firebase Realtime Database).
- Teams/Groups Team:
 - Frontend: Design UI for team/group creation and management.
 - Backend: Learn about handling data structures and permissions.
- Events Team:
 - Frontend: Sketch out settings and event scheduling interfaces.
 - Backend: Start learning about APIs for settings management and event handling.

- Calls Team:
 - Frontend: Plan the UI for video and audio calls.
 - Backend: Learn about WebRTC or similar technologies for real-time communication.
- Homepage Team:
 - Frontend: Design and implement the homepage layout.
 - Backend: Get familiar with routing and data fetching.

Week 2: Development and Integration

- Authentication Team:
 - Frontend: Refine UI and start connecting to the backend.
 - Backend: Implement authentication logic and database integration.
- Chat Team:
 - Frontend: Integrate chat UI with real-time database updates.
 - Backend: Set up and test database for storing and retrieving messages.
- Teams/Groups Team:
 - Frontend: Integrate team/group management UI with backend services.
 - Backend: Develop APIs for creating and managing teams/groups.
- Settings/Events Team:
 - Frontend: Connect settings and event UI with backend APIs.
 - Backend: Implement logic for managing user settings and scheduling events.
- Calls Team:
 - Frontend: Start implementing call UI features.
 - Backend: Establish basic real-time communication channels.
- Homepage Team:
 - Frontend: Enhance the homepage with dynamic content and navigation.
 - Backend: Implement server-side rendering or static generation as appropriate.

Week 3: Testing and Refinement (Flexible)

- All Teams:
 - Frontend: Test UI components, ensure responsiveness and usability.
 - Backend: Test APIs and database interactions, ensure security and performance.
 - Integration: Ensure frontend and backend components work seamlessly together.
 - Learning: Continue enhancing skills in areas identified as weak during development.

Week 4: Finalization and Documentation (Flexible)

- All Teams:
 - Frontend & Backend: Fix any remaining bugs, optimize performance, and refine user experience.
 - Documentation: Document code, write usage instructions, and describe features.
 - Preparation: Prepare for the application demonstration, including creating presentation materials.
- Report & Website Team (Throughout all sprints):
 - Weeks 1-2: Plan and start designing the company website; outline the progress report.
 - Week 3: Develop and finalize the company website; detail sections of the progress report as features are completed.
 - Week 4: Finalize the progress report; assist in preparing for the application demonstration.

Notes:

- Weekly Meetings: Essential to track progress, address challenges, and adapt plans.
- Peer Review: Encourage teams to review each other's work for quality assurance.
- Adaptability: Be ready to adjust tasks based on the progress and learning curve of the team members.