

Kanban Board Project Week 1 Deliverable

Week 1 (August 4 - August 9)

Stage 1: Planning and Design

Objective: Lay the groundwork for the application by understanding requirements and creating initial designs.

Backend Team:

August 5-6: Requirements Document

- **Identify user roles and their permissions:**
 - Define the different types of users (Admin, Project Manager, Volunteer).
 - Detail the permissions and access levels for each user role.
- **Define functional requirements:**
 - Document the core functionalities such as project creation, task assignment, progress tracking, etc.
 - Specify how these functionalities will interact and operate within the system.
- **Define non-functional requirements:**
 - Outline performance requirements (e.g., response time, scalability).
 - Define security requirements (e.g., data protection, access control).
 - Specify other non-functional aspects like reliability and usability.
- **Detail user stories and use cases:**
 - Create detailed user stories for each type of user and their interactions with the system.
 - Outline use cases to describe the system's behavior under various scenarios.

August 7: Database Schema:

- **Design MongoDB schema with collections:**
 - Identify the primary collections (e.g., Users, Projects, Tasks, Comments, Notifications).
- **Define relationships between collections:**
 - Establish relationships (e.g., one-to-many, many-to-many) between different collections.
 - Ensure data normalization and integrity.
- **Draft initial schema models:**
 - Create initial drafts of the schema models for each collection.
 - Define fields, data types, and constraints for each schema.

August 8: API Specifications

- **Outline RESTful API endpoints for CRUD operations:**
 - Define the endpoints needed for Create, Read, Update, and Delete operations for all primary entities.
 - **Define request and response formats:**
 - Specify the expected request parameters and body format.
 - Detail the response format, including status codes and data structure.
 - **Specify authentication and authorization mechanisms:**
 - Outline the methods for user authentication (e.g., JWT).
 - Define the authorization processes to ensure role-based access control.
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Front End Team:

August 5-6: Requirements Document

- **Collaborate with the backend team:**
 - Ensure that the frontend requirements are aligned with the backend functionalities and constraints.
 - Participate in defining user stories and use cases to understand the frontend requirements.

August 9: Prototype Designs

- **Create wireframes/mockups for each user role's interface using Figma:**
 - Develop initial designs for the Admin Dashboard, Project Manager Dashboard, and Volunteer Dashboard.
 - **Design dashboards:**
 - Admin Dashboard: Interface for user and project management.
 - Project Manager Dashboard: Interface for project and task management.
 - Volunteer Dashboard: Interface for task list and progress updates.
 - **Gather feedback and iterate on designs:**
 - Present initial designs to stakeholders.
 - Collect feedback and make necessary revisions to the designs.
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UI/UX Team:

August 5-6: Requirements Document

- **Collaborate with both backend and frontend teams:**
 - Work with both teams to ensure that user stories and use cases are well-defined and comprehensive.

- Provide input on the usability and user experience aspects of the requirements.

August 9: Prototype Designs

- **Assist the frontend team in creating wireframes/mockups:**
 - Support the frontend team in developing the initial wireframes and mockups.
 - Ensure that the designs are user-friendly and visually appealing.
- **Provide UX insights:**
 - Offer insights and suggestions to improve the user experience of the dashboards.
 - Focus on intuitive navigation, ease of use, and overall user satisfaction.
- **Gather feedback and iterate on designs:**
 - Participate in feedback sessions to gather user and stakeholder feedback.
 - Make UX-related adjustments to the designs based on the feedback received.