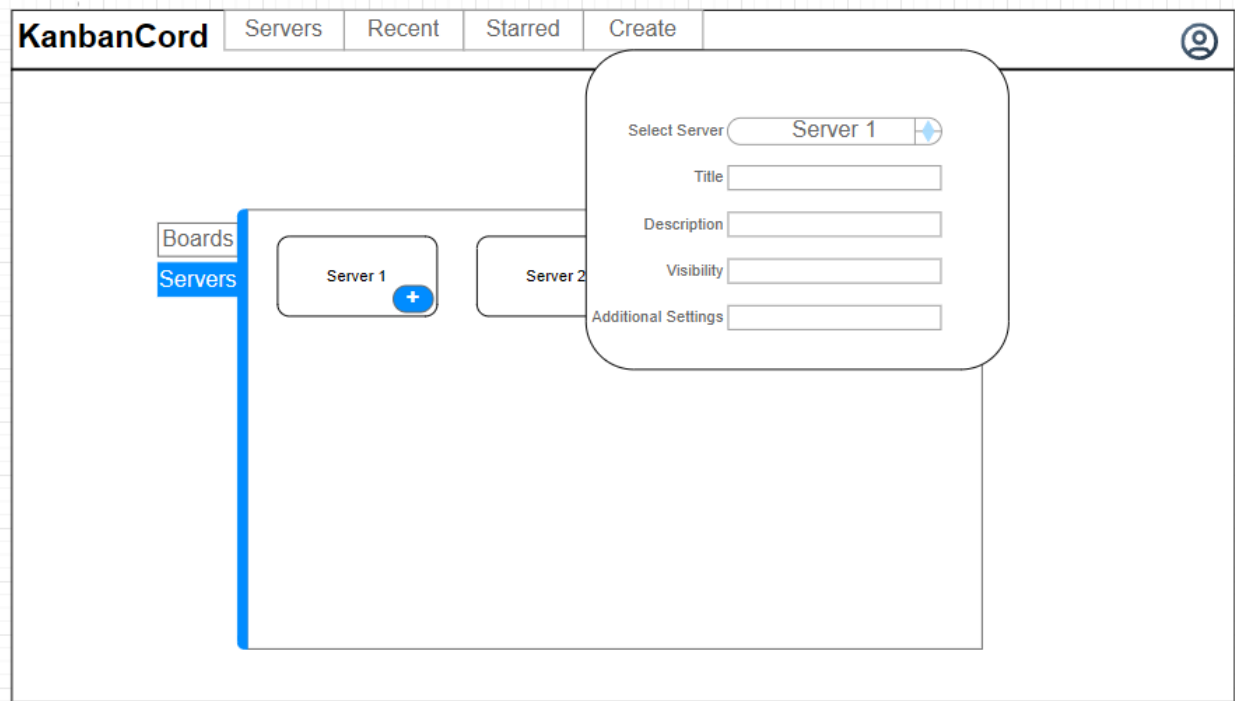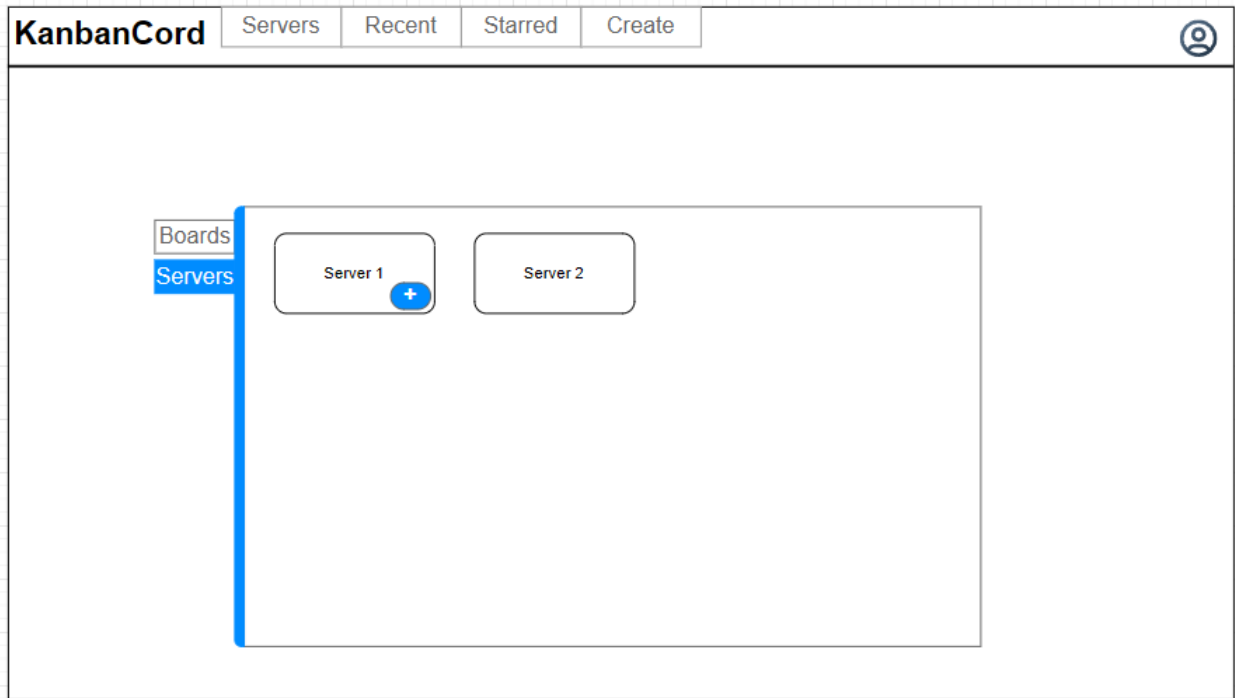# Project Analysis

Project Pitch:
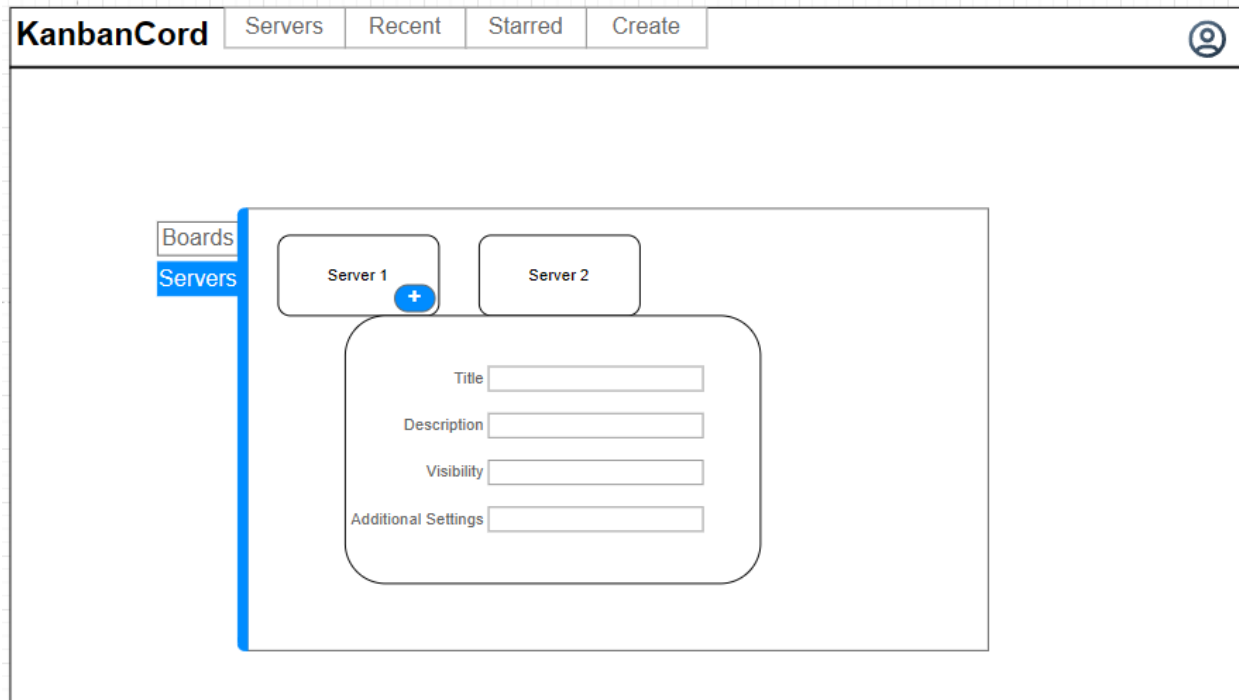
Title: KanbanCord

Description: With KanbanCord we want Discord servers and its users to be able to use a Kanban Board that is integrated with Discord, allowing server members to create, view and manage tasks seamlessly within their servers. With role-based access control, users can ensure that only specific roles, members with certain permissions or specified server members can view or edit boards. We aim to make project coordination for discord servers, staff teams or community projects an efficient and intuitive task management experience.

User Stories:

User Story 1:

- As a server member with the necessary permissions, I am able to create a new kanban board for a specific server, so that I can organize tasks and projects for the server members

- Wireframes:

KanbanCord   Servers   Recent   Starred   Create

Boards
Servers

Server 1   [+]

Server 2

KanbanCord   Servers   Recent   Starred   Create

Boards
Servers

Server 1   [+]

Server 2

Select Server   Server 1   ▼
Title
Description
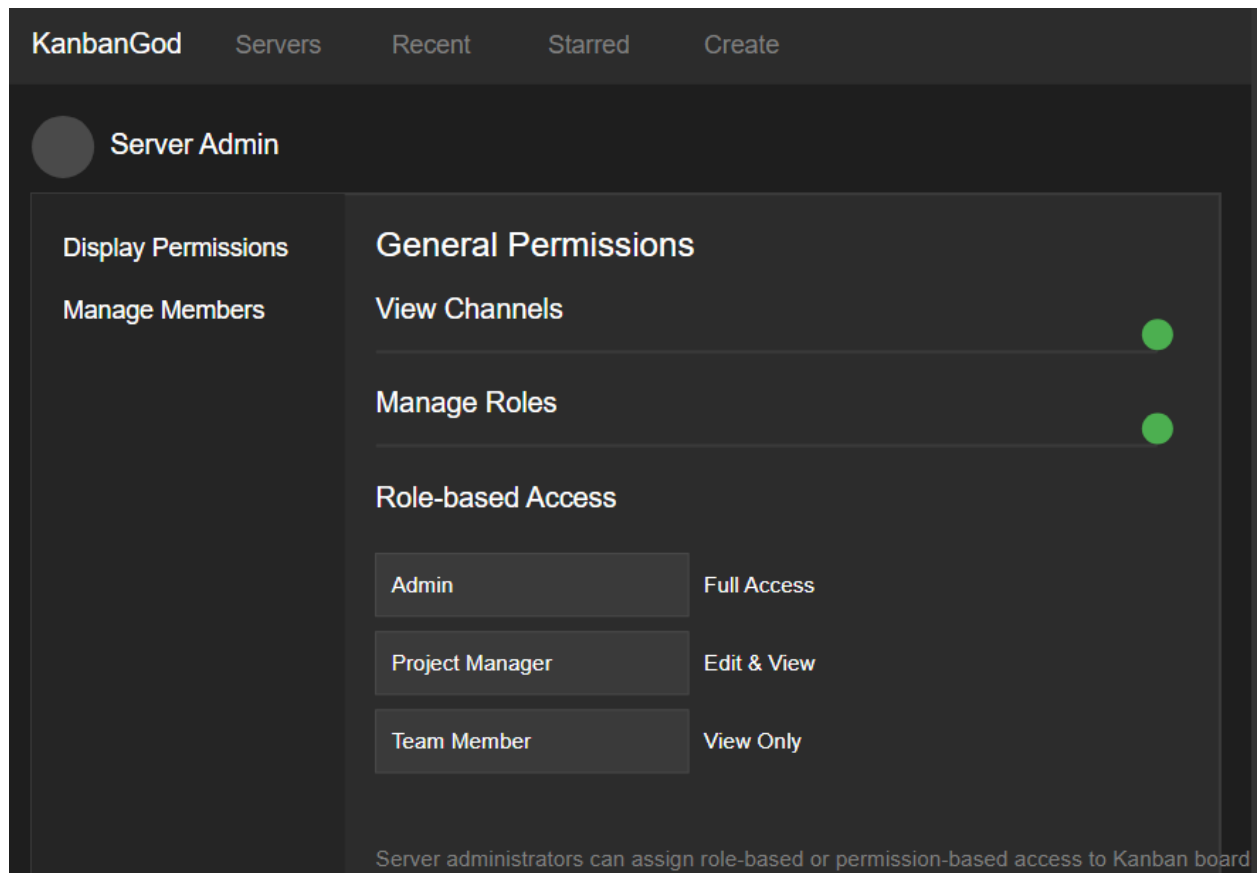Visibility
Additional Settings

- Acceptance Criteria:

    - The user can create a kanban board by selecting a Discord server they belong to.

    - The board creation form allows the user to set the board's name and modify the columns

    - The board is saved and linked to the selected Discord server.

User Story 2:

- As a server administrator, I am able to assign role or permission based access to kanban boards, so that I can control what criteria allows members to view or edit the board.

- Wireframes:

KanbanGod   Servers   Recent   Starred   Create

Server Admin

Display Permissions

Manage Members

General Permissions

View Channels

Manage Roles

Role-based Access

Admin	Full Access
Project Manager	Edit & View
Team Member	View Only

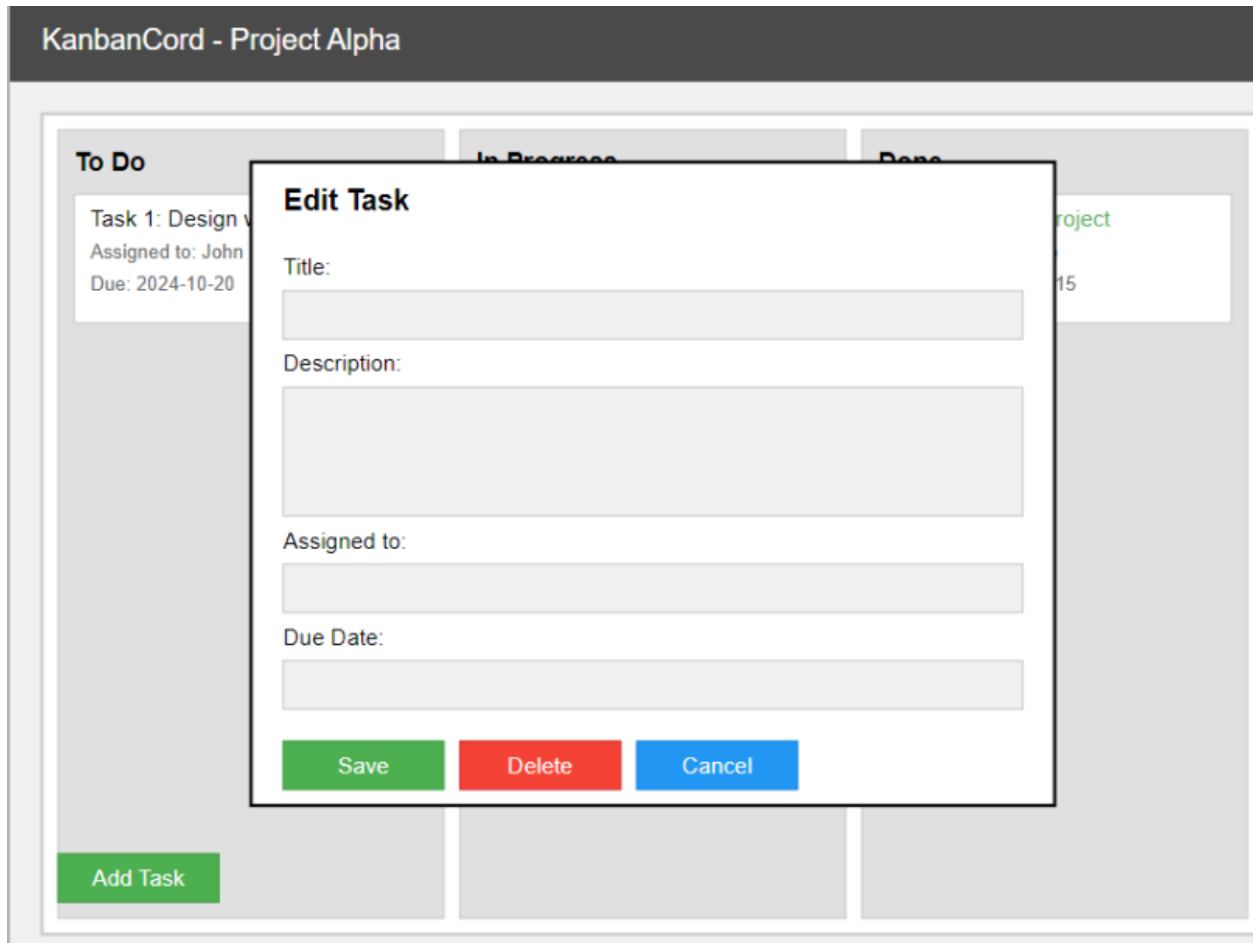Server administrators can assign role-based or permission-based access to Kanban board

- Acceptance Criteria:
  - The user can set permissions for roles or discord permissions when creating or editing a kanban board.
  - Role-based access should allow specific roles to either view, edit or manage tasks on the board.
  - Permission-based access should allow members who have certain server permissions to either view, edit or manage tasks on the board.
  - The system restricts access based on the assigned criteria.

User Story 3:

- As a server member with the proper permissions, I am able to add, edit or delete tasks on the kanban board, so that I can manage and update the tasks related to the server's projects.
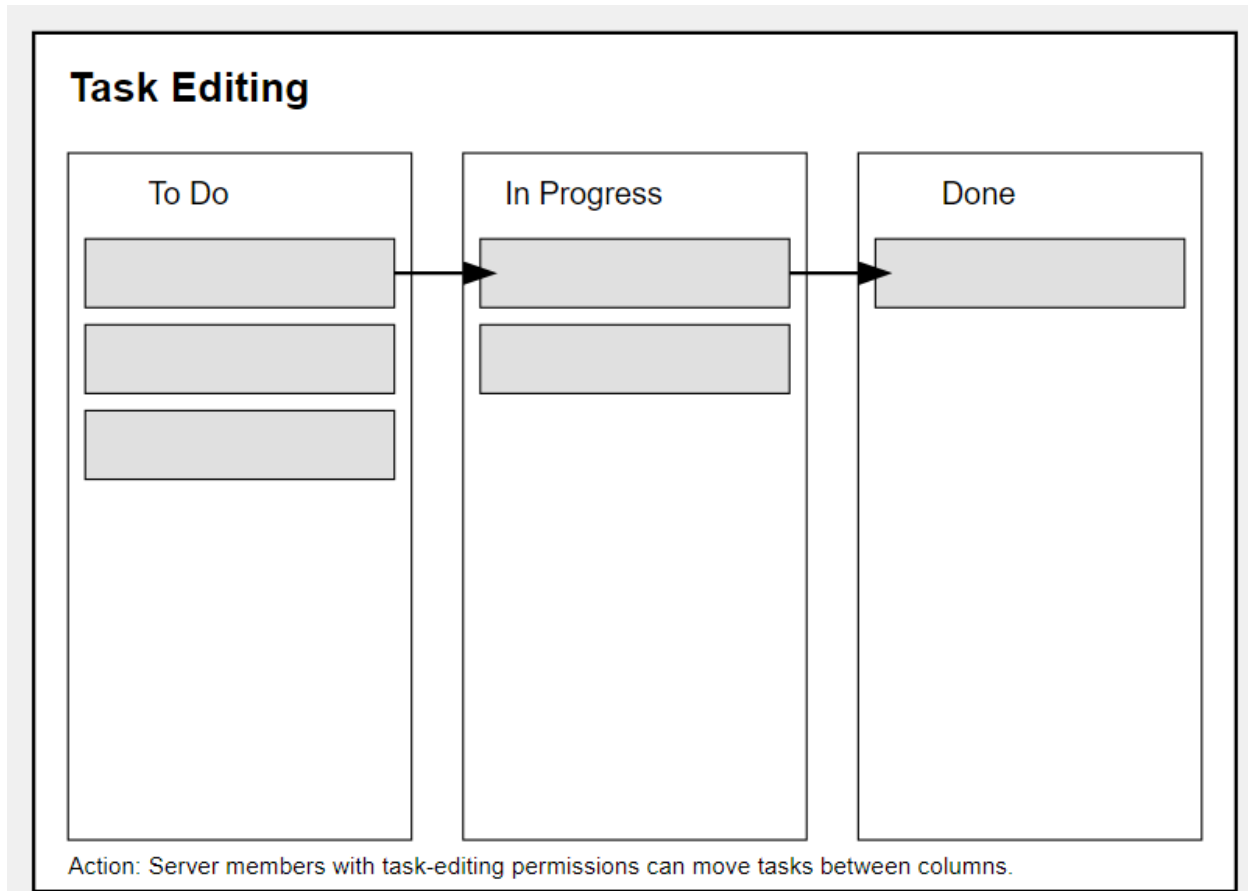
- Wireframe:

- Acceptance Criteria:
    - The user can add new tasks to any column on the kanban board.
    - The user can edit task details (title, description, due date, etc).
    - The user can delete tasks from the board.
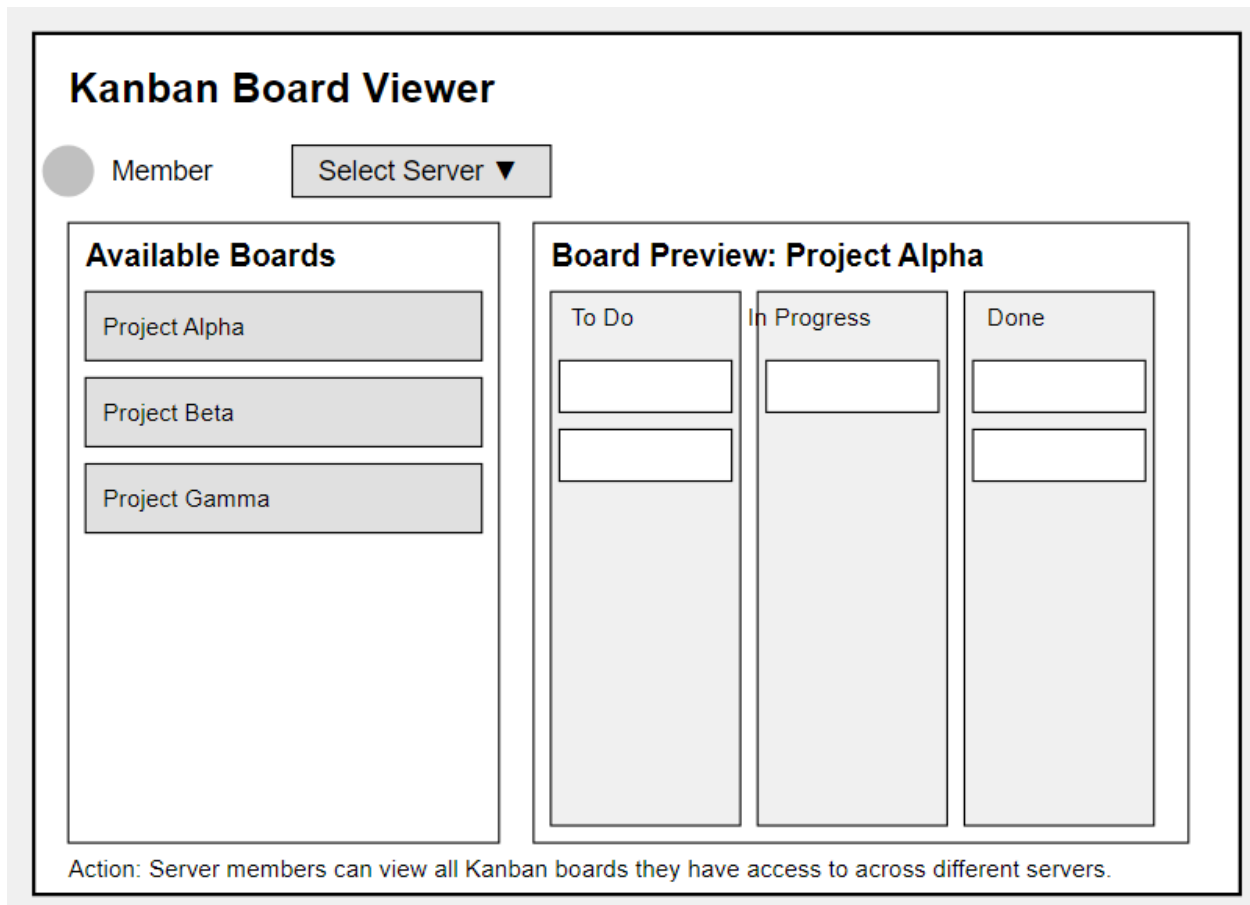   - Changes are reflected in real-time on the board for all users with access.

User Story 4:

- As a server member with task-editing permissions, I am able to move tasks between columns, so that I can reflect the current status of the tasks.
- Wireframe:

Task Editing

To Do	In Progress	Done

Action: Server members with task-editing permissions can move tasks between columns.

- Acceptance Criteria:
  - The user can drag and drop tasks between columns.
  - Task status changes are updated in real-time.
  - Other users with access to the board can see the task movement immediately.

User Story 5:

- As a server member, I am able to view all the kanban boards I have access to, so that I can easily keep track of multiple projects across different servers.
- Wireframe:

Kanban Board Viewer

Member   Select Server ▼

Available Boards
- Project Alpha
- Project Beta
- Project Gamma

Board Preview: Project Alpha

To Do | In Progress | Done

Action: Server members can view all Kanban boards they have access to across different servers.

- Acceptance Criteria:
    - The user can see a dashboard displaying all the boards they have access to across servers.
    - The dashboard allows the user to quickly switch between different boards.
    - Only boards the user has permission to access are visible.

User Story 6:

- As a project manager, I am able to assign user(s) to a task on the board, so that I can ensure every task has been assigned to someone.

- Wireframe:

Task Assignment

○ Project Manager

Task Details

Task Name: Implement User Authentication
Status: To Do

Assign Users

○ John Doe	Assign
○ Jane Smith	Assign

Current Assignments

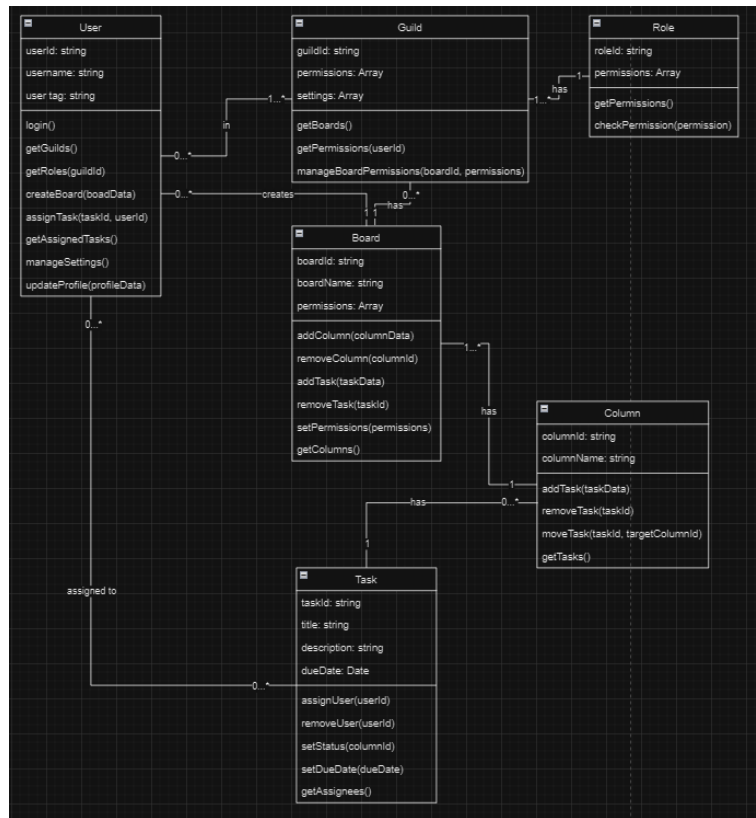|	
○ Alice Johnson	Remove

Action: Project managers can assign users to tasks and remove assignments as needed.
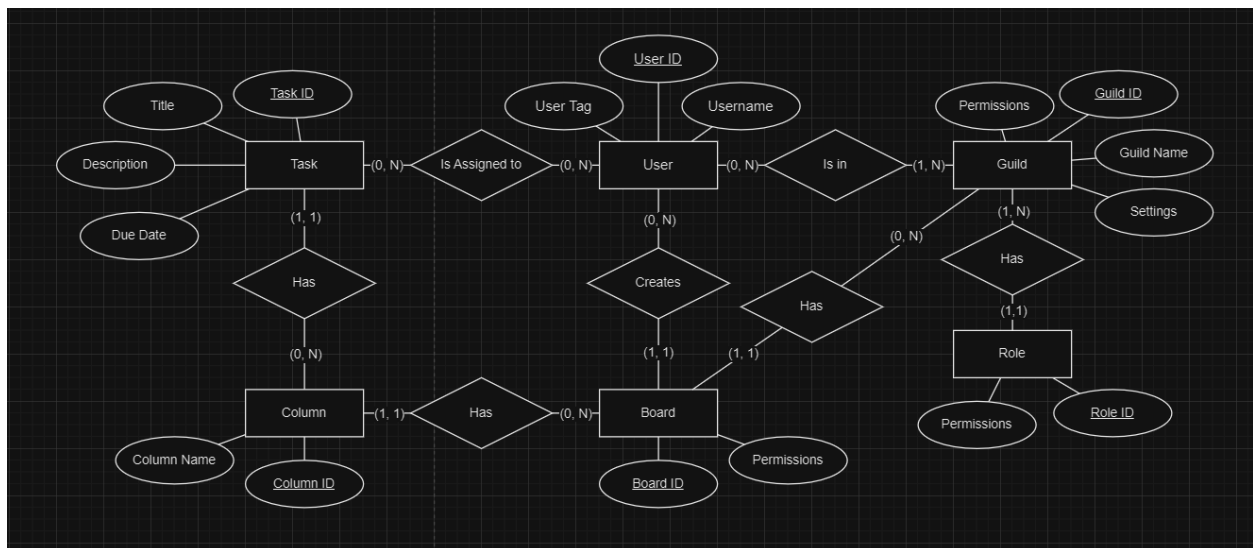
- Acceptance Criteria:
  - A task can be assigned to more than one user.
  - Only people with the ability to assign users can assign other users to a task.
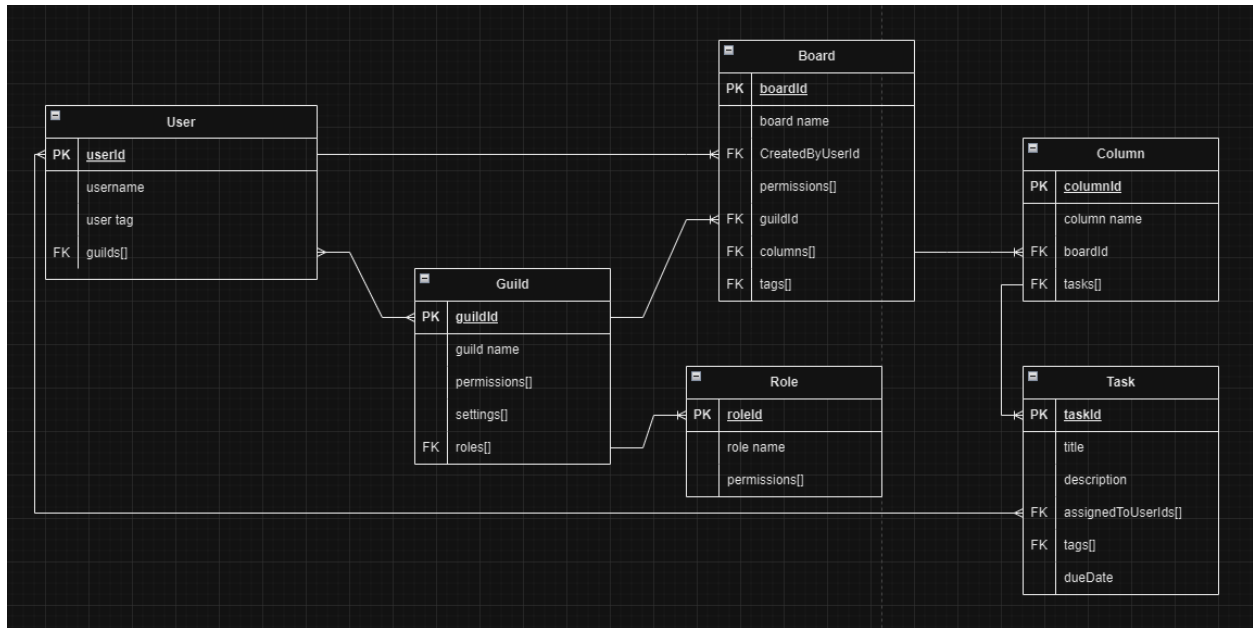
Models:

Domain Model:

Conceptual Model:

Logical Model:

Add-ons:

All Permissions:
(Most likely going to create a table with userId, roleId and discord permission enums on one side, with the kanban board enums on the other to indicate what user/role/permission has or doesn't have certain kanban permissions.)

Discord Permissions:

- View Channels

- Manage Channels

- Manage Roles

- Create Expressions

- Manage Expressions

- View Audit Log

- View Server Insights

- Manage Webhooks

- Manage Server

- Create Invite

- Change Nickname

- Manage Nicknames

- Kick Members

- Ban Members

- Timeout Members

- Send Messages

- Send Messages in Threads

- Create Public Threads

- Create Private Threads

- Embed Links

- Attach Files

- Add Reactions

- Use External Emoji

- Use External Stickers

- Mention @everyone, @here, and All Roles

- Manage Messages

- Manage Threads

- Send Text-to-Speech Messages

- Send Voice Messages

- Create Polls

- Connect

- Speak

- Video

- Use Soundboard

- Use External Sounds

- Use Voice Activity

- Priority Speaker

- Mute Members

- Deafen Members

- Move Members

- Set Voice Channel Status

- Use Application Commands

- Use Activities

- Use External Apps

- Request to Speak

- Create Events

- Manage Events

- Administrator

Kanban Board Permissions(Can be changed later on if needed):

- View Board

- Create Board

- Edit Board (Name, description)

- Delete Board

- Manage Board Permissions

- Create Columns

- Delete Columns

- Edit Columns(Rename, move columns)

- Create Tasks

- Edit Tasks(Modify details, title, description etc.)

- Delete Tasks

- Assign Tasks

- Change Task Status(Move task across columns)

- Manage Task Assignees

- Manage Role-Based Permissions

- Manage Discord Permission-Based Permissions

- Manage User-Based Permissions

- View Activity Log

- Administrator