# Personalized Task List Organizer

## Stakeholders:

- User: Any person who wants to access the application in order to keep their tasks organized;
- Admin: A person that manages the server, e.g., starts the server locally.

# Terminology:

- Board: A representation of all tasks that need doing for one category, split into multiple lists:
  - Open Board: A board on which multiple users can add, change and/or delete tasks;
  - Private Board: A board on which only one user can work with tasks.
- List: A list of tasks that identify one sub-category (e.g. To Do, Doing, Done);
- Card: A way for tasks to be represented, with titles, descriptions and tags.

# Epics:

#### Board

- As a user, I want to maintain my tasks organized in lists, having a good way of keeping track of my activities: what I need to do, what I am currently doing and what I have finished;
  - Present the users with three original Lists To Do, Doing, Done
  - Allow the users to create new lists by their design
  - Allow users to delete lists as they want
- As a user, I want to have the overview of my tasks synchronize automatically, such that changes that I make are saved without me having to do anything;
  - Whenever a change is made reload the application to reflect it
  - Whenever another user edits the application, reflect the change in real time to all other devices
- As an admin I want to be able to access all boards on the server in case I need to take action:
  - Have access to all boards in the DB
  - Private option to delete any board

#### Card

- As a user I want to be able to create a card inside the to do list. I will always have multiple tasks happening simultaneously, such as: I can have plenty of tasks that I need to do, but not started yet, or multiple tasks which I am currently working on;
  - Allow the user create a task
  - Save the task in a database so the user can access it later
- As a user, I want to be able to add/delete new cards or lists. Tasks will always come and go, so I want to be able to constantly add or delete cards;
  - Allow users to delete a card
  - Remove the task from the database as it will occupy needed space
- Be able to edit an existing card or list. An editing feature is mandatory, as I do not want to delete an entire card/list if I made a mistake in it;
  - Allow the user to edit features of the card by their design
  - Allow the user to add new features to cards
  - Save the changes to the card in the database
- As a user, I want to be able to add multiple details(subtasks, description) to a card so that it would be easier to achieve a big goal;
  - Create smaller tasks for a task
  - Have a description for a task
     Have the details hidden in the normal view
- As a user, I want to be able to customize my cards so that I will have more flexibility in classifying my tasks and makes each one more easily identifiable;
  - Change the color of the card
  - Edit card's details (the description, the subtasks)
- As an admin I want to be able to keep track of all cards which have been created;
  - Store each card on a DB
  - Give each card an unique id so I can distinguish between cards
- As an admin I want to be able to edit/delete all cards on the server in case I need to take action:
  - Have access to all cards in the DB
  - Private option to delete any card from any board

#### Drag & Drop

- As a user/admin, I want to be able to drag and drop features in order to move a card between the lists. This would facilitate the process of moving a card from one list to another;
  - Allow the user to move tasks between lists with their mouse
  - Changes made by dragging and dropping seamlessly update the board status

#### User Access

- As a user, I would like to be able to log into the app with a username and to store boards on my profile to have them at a later date;
- As an admin implementing a username based login feature would make the account creation experience seamless and it would be easy to attribute each board to its creator;
  - Users using their username to access the boards they have access to
  - Making account creation as easy as possible
  - Each username being linked to the board tokens they have access to (view or/and write)
- As an admin, I want to have a functional multiuser client-server application, so multiple people can use and collaborate on different boards without me updating the users' actions:
  - Host all of the users' activity (edit/add actions) on the server
  - Being able to host multiple users without the app crashing
  - The ability to remove/restore/add a user

## Multiple boards

- As a user, I want to have multiple boards which will contain multiple lists. This
  feature will give a better organization of the tasks;
  - All boards appear in the overview
  - All the information added to a board is saved in the database
- As a user I want to be able to make a board open to everyone using the app, or make it private so that more people or only me can access it;
  - Classify a board as either open or private.
  - Request editing access in order to have access to a private board
  - Give access to my boards
- As a user, I would like to block access to my board for unauthorized people by setting a password to my respective boards;
  - It is simple to convert to and from a normal board to a password-protected one
  - When entering the board, users will have to input the password to gain access
- As a user I want to share my boards with other users, so I can work with my team on multiple tasks and keep track of them;
  - Each board has a unique token that can be shared across users
  - Each user can be given access to either change or view a board

#### Interface

- As a user an important thing I am looking at in an app is how I can interact with it.
   I would like it to be intuitive and easy to understand the first time I am using the app, as well as making it easy to use so that it motivates me to use it often;
- As an admin, I aim to deliver an app that is easy to use by consumers, by making
  it accessible and intuitive in order to motivate the user;
  - The app to have a user-friendly interface that makes it easy and intuitive to navigate
  - Having personalisation available so that the user can make the most out of the app
  - To have a nice design and a good choice of color palette

## Tags

- As a user, I want to have multiple tags for a task. This would make the overview of a task considerably easier by just taking a look at the tags;
  - The tags will appear at the bottom of a card
  - Add/delete tags
- As a user, I want to be able to customize the tags. This will give me more flexibility and a visually appealing interface. This would make searching tasks easier;
  - The tags can be a difficulty level, a domain, a priority level, or whatever the user wants to name the tag
  - The tags can have multiple colors

#### Search and filter

- As a user, I want to be able to filter tasks, either by keyword, task name, or tag;
  - When searching something, the places in the application where we have a match will be highlighted
- As a user, I want to be able to search for specific boards by their name or id;
  - The search bar is displayed somewhere at the top of the application
  - Check whether the entered text has any correspondence with any board in the DB

#### Keyboard shortcuts

- As a user, I would like to be able to use a variety of key combinations to access features like card/list/board creations easier;
- As a user, I should also be able to find out about these keyboard shortcuts by simply hovering over their respective buttons (as in, hovering over the '+' button shows how the keyboard shortcut for adding a new card);
  - Shortcuts are intuitive and functional
  - Shortcuts are easily identifiable

#### Progress tracker

- As a user, I would like to track how many tasks I've finished as a percentage of the number of tasks on a board;
  - Mark tasks as done and have a progress bar as a ratio between done and not done tasks

#### Notifications

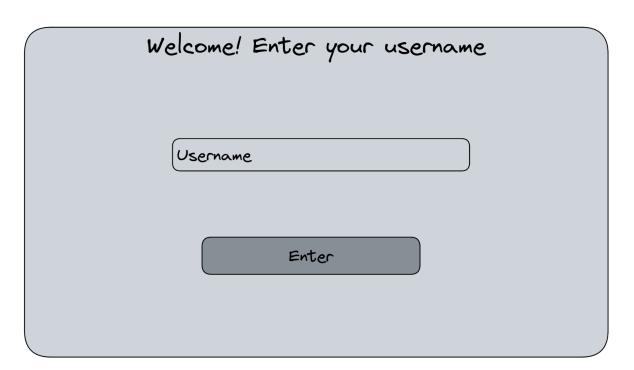
- As a user, I would like to be reminded of due tasks, so I don't forget to do it;
  - When I create a task, I should be able to add a deadline to it
  - If I create a task with a deadline, the program should send me notifications to the board as a reminder to finish the task

## Backup

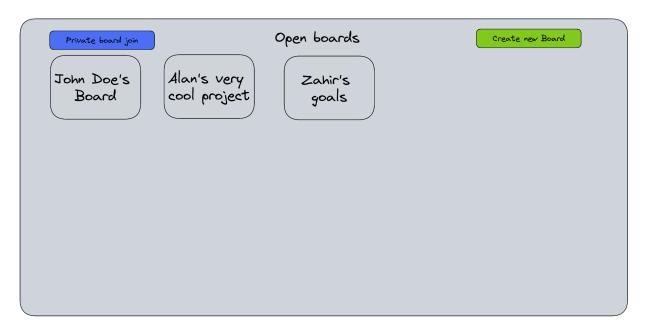
 As an admin, I want to have a backup and restore functionality so that in case of a data loss, the user can still have their boards.

## MOCKS

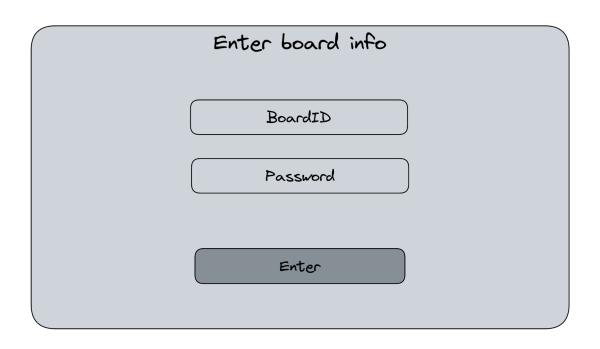
# **Username Entry Screen**



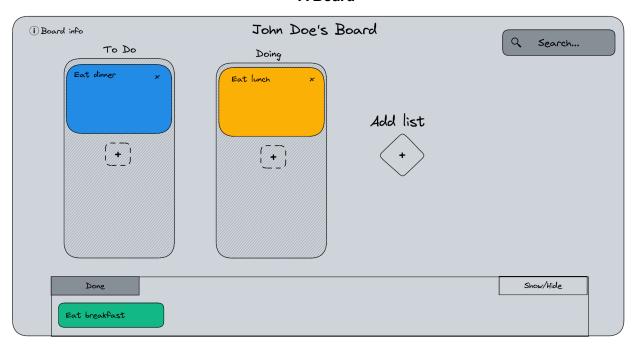
# Main Screen With Open Boards



# Password entry screen (for private boards)



# A Board



# A card's details

