

Task Manager Application

Our application is going to fulfill the role of a personal task list organizer where users can keep track of multiple boards, set objectives, remove completed ones and interact with other users' input.

Stakeholders:

- **User** - Any person who is able to access the application and view all boards
- **Admin** - A person managing the server that can access all the boards and make any changes without the need of passwords

Mocks:

There are several mocks of the application in the appendix. The design is not definitive but it should give a rough representation of the functionality of the application.

Terminology:

- **Board**: Highest level container. Boards consist of multiple lists.
- **List**: Collection of cards. It has a name that describes the current status of the tasks in the list.
- **Card**: Container described by a title that could have a detailed description, nested tasks and user-defined tag(s).
- **Task**: User-defined string
- **Board view**: Overview of a board where you can see lists belonging to the board and cards represented only by their title
- **Card View**: Detailed view of a card where you can see all of the card properties
- **Menu of the boards**: General overview where all the boards' names are displayed and therefore grant access to viewing them
- **Tag menu**: A menu that pops up when adding tags to a card, from which I choose which tag to add, inside it I also have an option to add/delete tags

Basic Requirements:

Client-Server application using Spring Boot and JavaFX frameworks.

The application is going to fulfill the role of a personal task list organizer where users can keep track of multiple boards, set objectives, remove completed ones and interact with other users' input.

As an admin of the app, I want...

- to be able to start and stop the server whenever I want, so that I can debug and maintain the server, application and database

As a user of the app, I want...

- to have access to one board, so that I can keep my objectives and tasks in it.
- to create as many lists as needed, so that I will be able to keep my tasks in a well organized manner
- to be able to remove and edit lists, so that depending on my needs I can rename them or remove them if they are no longer needed
- to create as many cards as needed, so that I can keep track of multiple separate tasks
- to be able to remove and edit cards, so that the boards remain organized
- to have my cards consist only of a title, so that I can identify them only by their title, to avoid clutter and keep the UI clean
- to see only the title of the cards in the list view, so that the list is in a readable and clean format, to make the app easy and pleasant to use
- to use the app together with others, simultaneously, collaborating together on a board, so as to use the app for group projects
- to have the board actively synchronize for everybody interacting with it, so as to always have the latest version ready to use and enable live interaction with it with two or more people
- a "Drag and Drop" interface so that I can move previously created cards around to different lists or to change their order on the same list, so as to make the app more convenient to use

Advanced Requirements

Multi-Board:

Each user should be able to create multiple boards and have access to every created board

As a user of the app, I want...

- the ability to create as many boards as I wish, so that I may separate multiple projects
- the ability to name the boards I create, so that it's easier to identify them
- to have reading rights amongst all boards, so that I can view all other users' inputs
- a menu containing all current boards, so as to easily navigate, find and open the desired board
- a menu with the boards I created or contributed to, so that I can see all of the boards important to me at the same time

More detailed cards:

The user should be able to be more specific when creating cards and add more detailed information

As a user of the app, I want...

- to add longer description to cards, so that I can include more details
- to add tasks to cards, so that I can group all the task that are connected
 - to add sub-tasks, so that I can divide the task into smaller, more manageable ones
- the tasks to have a checkmark, so that when I finish the task I can mark it as such
- to see a card's creation date, so that I can keep track of my activity
- to add deadlines to cards, so that I know when all of the tasks inside the card should be completed
- to display deadlines of cards, so that in the board view I see which cards require my immediate attention
- a section for notes/addendums, so that it makes working together with others easier and I can view any added notes about the cards/tasks

Tags:

Tag system is supposed to help users with classifying cards. Its purpose is to make the app more readable

As a user of the app, I want...

- to be able to define tags with custom names and save them in the tag menu, so that the tags will suit exactly my needs
- to be able to add tags to cards, so that I will be able to classify cards based on their content and importance

- To be able to delete tags from cards, so that when I change my mind I will not have to make a brand new card
- to be able to delete already defined tags, so that if they are no longer needed they will not clutter my tag menu
- to be able to filter cards based on their tags, so that I can focus on one category at a time

Customization:

The user should be able to customize the app

As a user of the app, I want...

- to have the ability to customize the color theme using a separate editing menu, so that it suits my aesthetic needs
- to customize the color of the tags, so that it is easier to distinguish them

Keyboard shortcuts:

Keyboards shortcuts are supposed to make using the app more user-friendly and make accessing certain features faster

As a user of the app, I want...

- a shortcut that will bring me to the menu of the boards, so that I can start quickly working on another board.
- a shortcut for creating new board and automatically switching to it, so that when new idea comes to my mind I can promptly start writing things down
- a shortcut, that when I am in a card view, will cycle through next cards in the same list, so that I can quickly see all the tasks in the list
- a shortcut that will cycle through all my boards and boards I contributed to, so that I can quickly take a look at what tasks should I focus at the moment
- a shortcut, that when I am in a board view, will create a new empty list, so that when I am done with one stage of a project I will quickly made a list to contain all of the old cards

Password protected boards:

As a user of the app, I want...

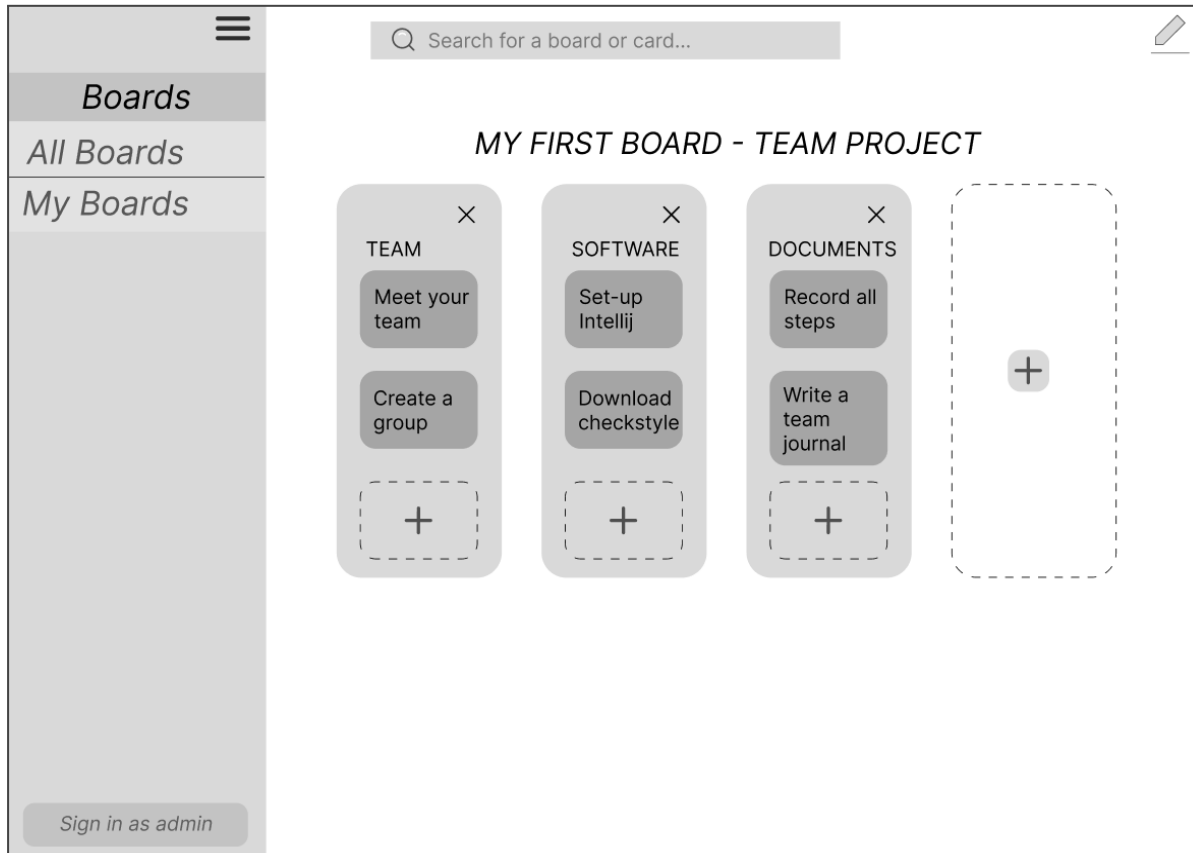
- to secure my own board by setting a password granting writing privileges to those possessing it, so that only select people can make changes on it

As an admin of the app, I want...

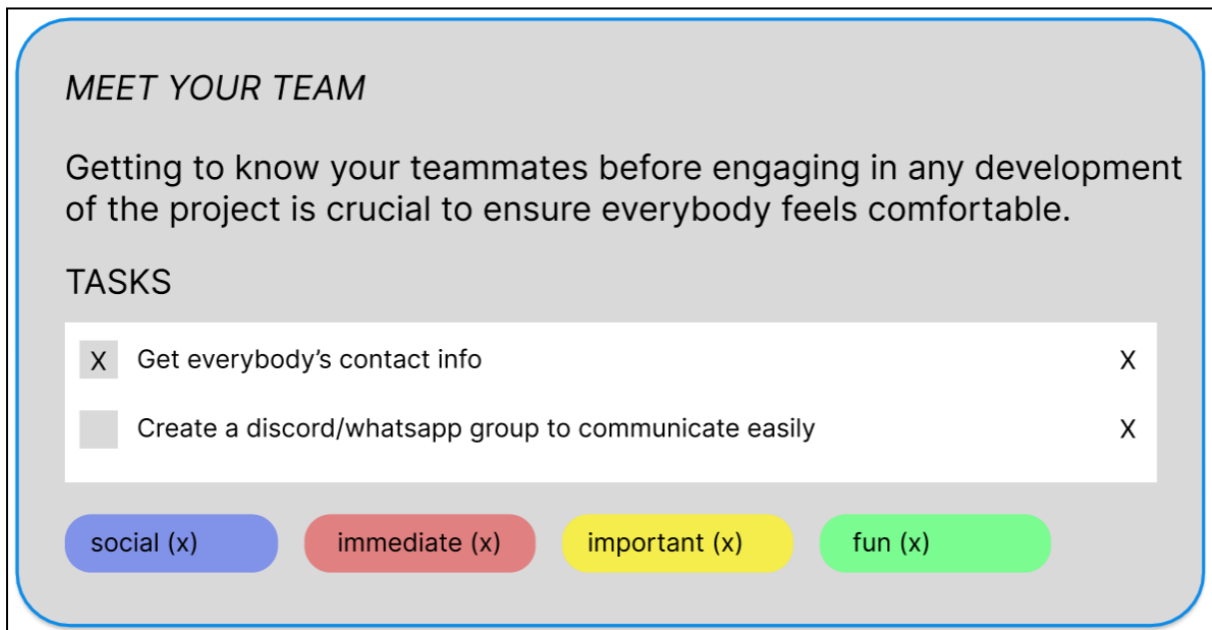
- to have the ability to bypass any password and make changes to any board, so that I have control of what is on the server

MOCKS

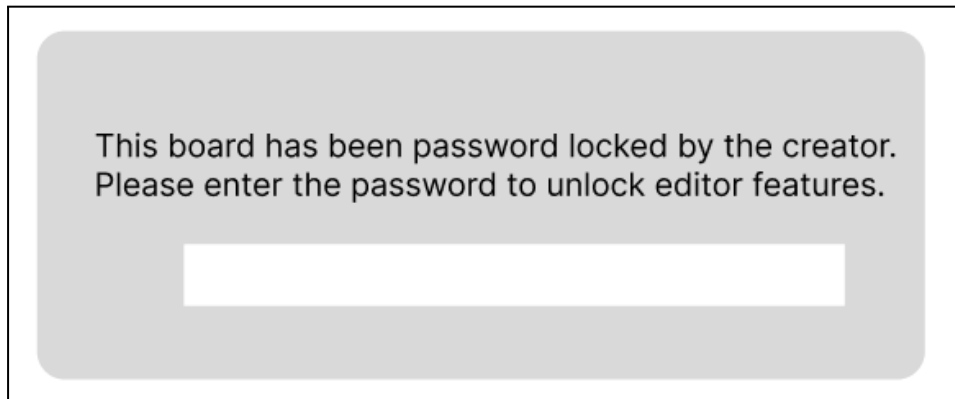
Board view:



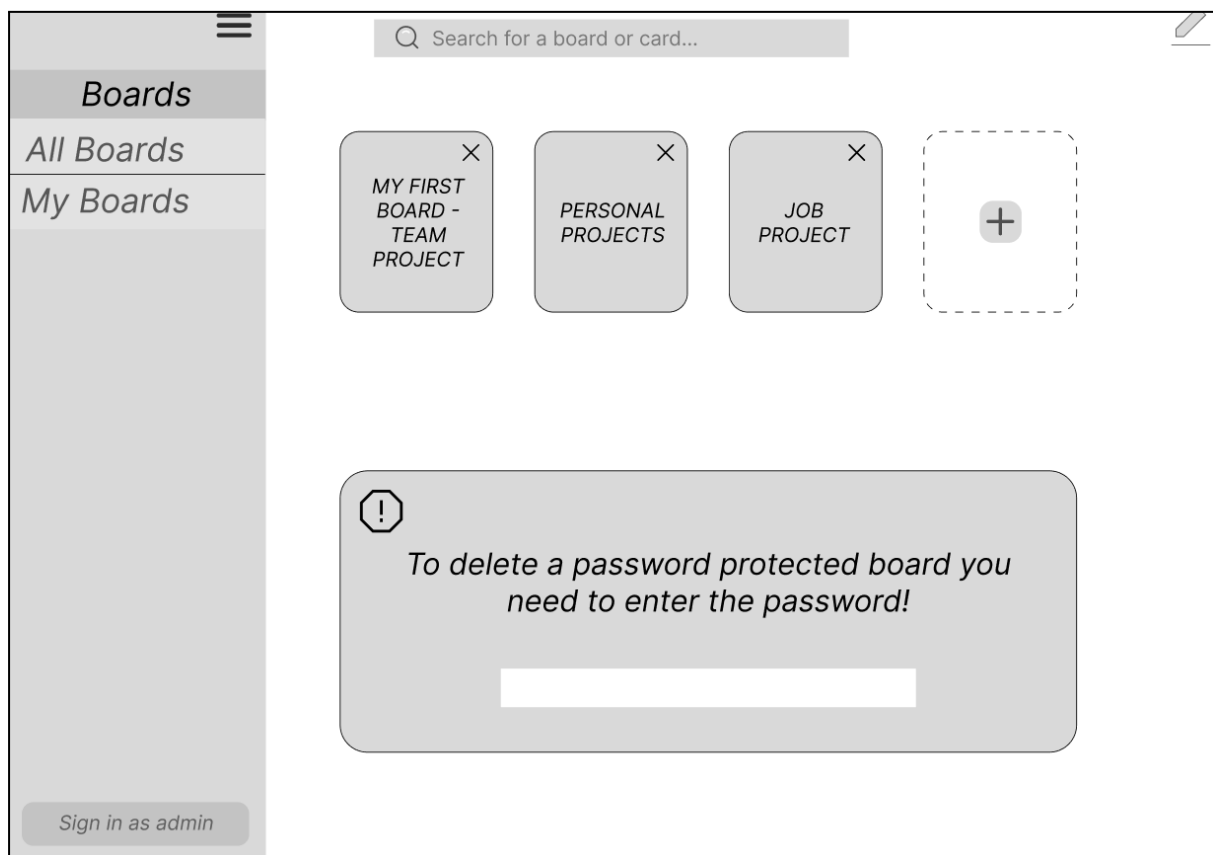
Card view:



Pop up for password protected boards:



Board menu:



Tag menu:

Add a new tag or search for an existing one

social +

immediate +

important +

fun +