

Stakeholders:

- **User:** Any person that is able to create a board and add lists / notes to it
- **Admin:** The persons who can edit a certain board

Terminology:

- **Card:** a note that contains text and can be added to a any list
- **List:** a subpartition of the board where the cards are added to
- **Board:** an instance that any user can create where they are able to add lists and cards to

Basic single-board-view application

- As a user I want to automatically join a board on startup so that I can see all the lists and cards I have previously added
 - When I start the application I get directed to a board
 - I can see the cards and lists that are present on that board
- As a user I want my changes to be saved on a remote server, so I can access it from anywhere and my data is safe and it can be dynamically edited by multiple people.
 - The application saves all boards on a database
 - After every add / edit / delete operation the changes are saved to the database and automatically synced with the board that the user sees
- As a user I want to be able to add cards to the board, so that I can organize my tasks using the application
 - There is an add card button that prompts the add card screen
 - I can input a custom title for each card
- As a user I want to be able to edit cards on the board, so that I can modify the details of my cards
 - In the viewing screen for the card there is an edit button that opens the edit screen
 - I can edit the title of that specific card
- As a user I want to be able to delete the cards from the board, so that I can remove unwanted cards from the board
 - After the user clicks on the 'edit' button, they are presented with a 'delete' button at the bottom
 - Once the user clicks the delete button, the card is deleted
- As a user I want the cards I create to contain the title that I input, so that I know what they resemble
 - The cards' titles are visible in the lists that contain those certain cards
 - The titles are displayed over their respective card's box
- As a user I want to be able to drag and drop the cards in their respective categories so that I have a convenient way to manage my board

- Holding left click on a card makes it hover the list and dragging the mouse over another (or same) list, then letting go of the click places the card in the 2nd list
- A user can move a card to any list in the same board, but not on another board
- As a user I want to be able to create a list and add it to the board, so I can organize my cards
 - There is an add list button that prompts the add list screen
 - The user can input a title for each list
- As a user I want to be able to edit the lists on the board, so that I can modify the details of my lists
 - The user can click on the title to edit it in an edit screen
- As a user I want to be able to delete the lists on the board, so I can remove lists that I do not need anymore or that were created by mistake
 - In the edit list view there is a 'delete' button
 - Once the user clicks the delete button, the list is deleted

More advanced (multi-board-view)

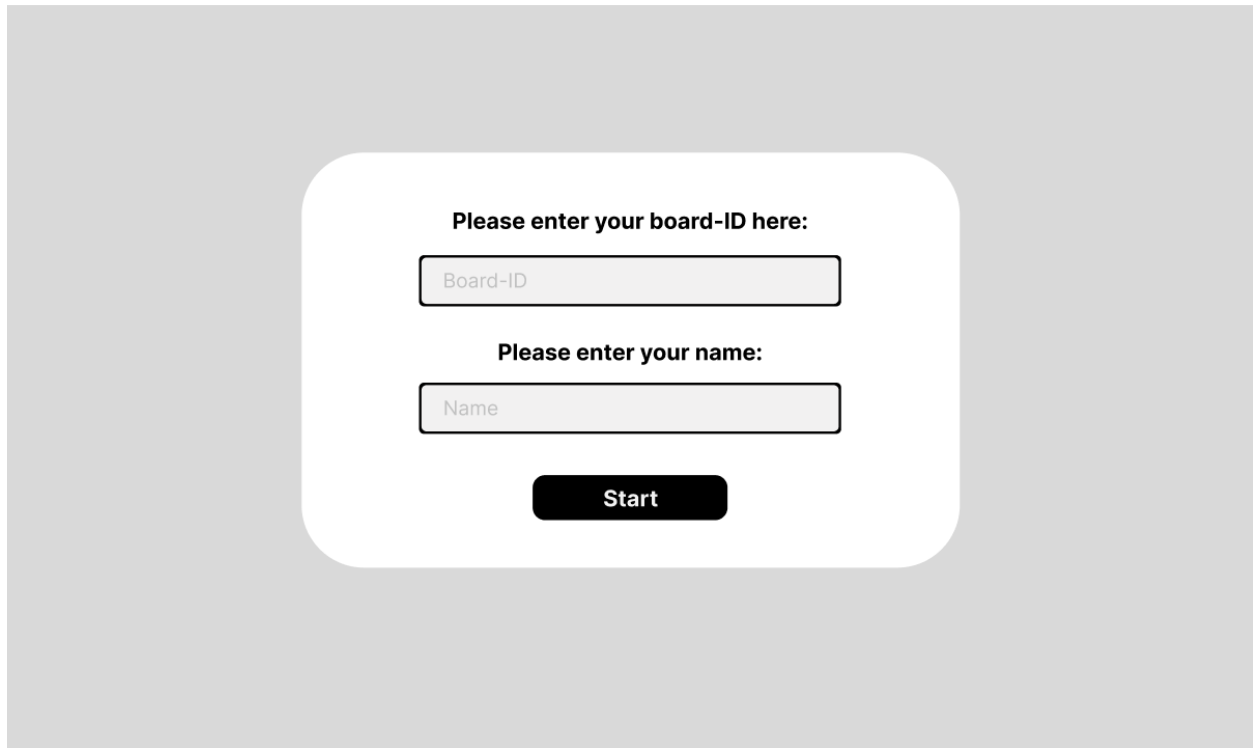
- As a user I want to be able to join multiple board using different codes, so I can work on multiple boards at once
 - User can input a board ID to open a board
- As an admin I want the board's view to dynamically synchronize and be kept up-to-date when other users are inputting changes to the board, so that I can see the most recent version of my board
 - The boards are identified by a unique id
 - When someone makes a change to a board, everyone with access to that certain board can see the change
 - The change is automatically applied to every user's view
- As a user I want to be able to give a color to a card, so I can track my tasks more effectively
 - When I create a card there should be a field where I can enter a hex code which will be the color of the board
 - In the edit screen there needs to be a field to change the color of the card
- As a user I want to be able to add a description to the cards so that I can have all the details of the tasks
 - When adding a card, a description box also shows up where a description can be written
 - Descriptions can be edited the same way one would edit the title
- As a user I want to be able to add lists inside of other lists so I can better structure my board
 - When clicking the add button for a certain list, you are given the option to choose between a card or a list by selecting the specific menu
 - The lists that are added inside of another list have all the normal list properties
 - Cards can be added to nested lists

- There is no limit as to how much a user can nest lists (list inside of a list inside of another list inside of another list etc.)
- As a user I want to add tags to my cards so I can organize them by topic
 - The edit screen of a card will have a list of tags that are associated to the card and a Add Tag button
 - The board view will show the tags of each card
 - In the board view there is a Filter button, when clicked the user can choose one or more tags and only the cards with those tags will be visible
- As a user I want to delete tags from my cards in case I made a mistake
 - In the edit screen of a card there is a list of tags that are associated to the card and the user can delete each tag from the card
 - To delete tags completely there is a manage tags button where the user can delete tags from the database
- As a user I want to edit the color and name of the tags I've created, so that I can keep my tasks organized.
 - The Manage Tags screen shows a list with all the tags, when the user click on them they can edit all the properties of the card (name and color)

Complete Version (Password-protected multiboards)

- As a user I want to be able to use keyboard shortcuts so that it is easier for me to use the application
 - Users should be able to select a card by clicking on it (the card box, not the name)
 - Users should be able to use a keyboard shortcut to add cards
 - Users should be able to use a keyboard shortcut to edit selected cards
 - Users should be able to use a keyboard shortcut to delete selected cards
- As an admin I want to decide who can edit a certain boards so I can make sure no unauthorized changes are made to the board
 - There should be a separate login window on a board where you can get admin privileges for that board
 - Only those who have admin privileges for that board should be able to change board
 - Everyone (even without the password, but with the join code) can view the board

Mockups

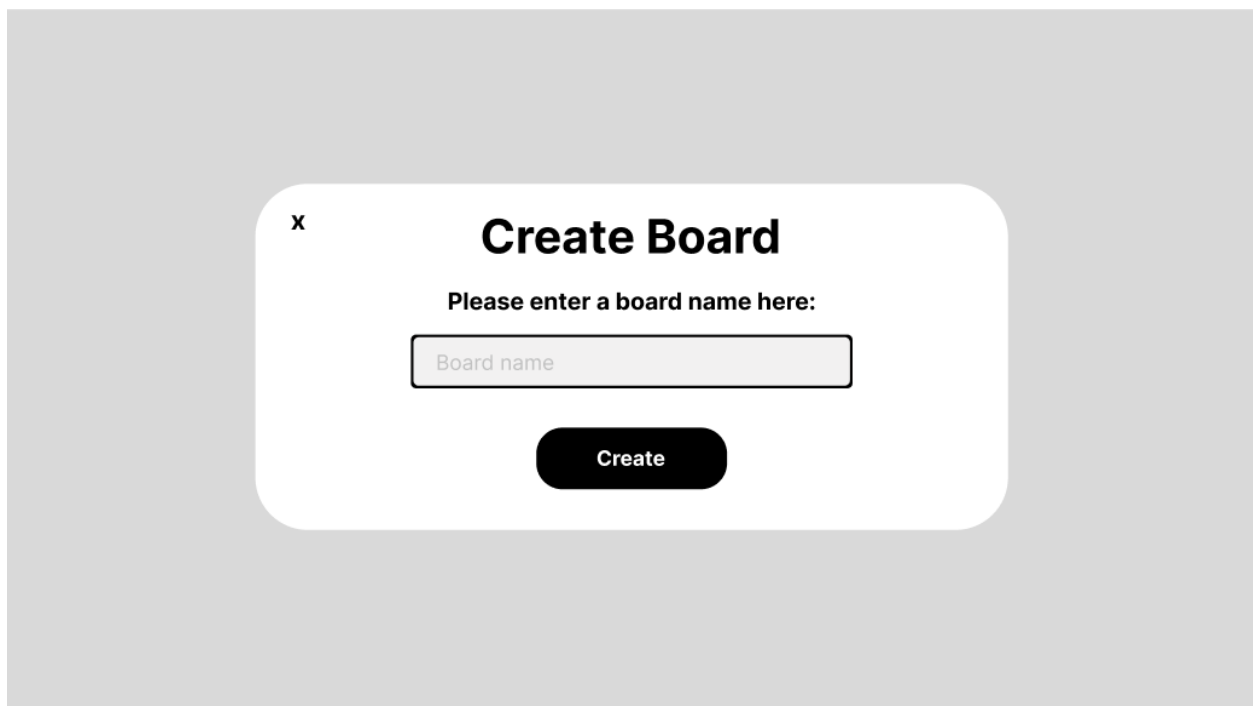


A white rounded rectangle centered on a gray background. It contains two text prompts, two input fields, and a button.

Please enter your board-ID here:

Please enter your name:

Start



A white rounded rectangle centered on a gray background. It features a close button in the top-left corner, a title, a text prompt, an input field, and a button.

X

Create Board

Please enter a board name here:

Create

X

Card

Color

Description

Description

Tasks

Tasks

Tags

Tag 1

Tag 2

+

Save

Back to Board
Selection

Board Name

Background colour ●

LIST 1

x

Card A

x

Card B

x

Card C

x

+ Add Card

LIST 2

x

Card A

x

+ Add Card

+ Add List