Backlog

Stakeholders

- User: has a username and can view, edit and share
- Admin: a privileged user that has unrestricted access to all possible operations on boards, lists, cards: view, edit, delete etc., including server operations (e.g. restart the server)

Terminology

- Card = note which has a title and when opened a description and subtasks, shown on lists
- List = shows multiple cards
- Board = a collection of lists shown together
- Username = a non-unique way of identifying the person who is currently operating on a page
- To join board = the user connects to a board
- Board name = arbitrary name given to a board
- Board id = specially generated String that is used to differentiate boards

Example of the format

- Epic
 - User story
 - Acceptance criteria

Epics

Basic requirements

These are the minimum requirements for the application to function.

As a user I want to...

- have a board with multiple lists of cards so that I can organise and group my tasks
 - There are objects called cards which represent tasks.
 - Multiple cards form a list. You can add infinitely many cards to a list.
 - Multiple lists form a board. You can add infinitely many lists to a board.
- be able to drag and drop cards so that I can reorder them or move them between lists easily
 - Each card can be moved between and in a list by clicking on them and holding it while moving, and it snaps into an appropriate position.
- o be able to drag and drop lists so that I can move them around on the board easily

- Lists can be moved by clicking on them and moving the cursor, as long as the left mouse button is pressed the list follows the cursor.
- have the overview of the board auto synchronised so that it's up to date between users
 - Changes should be updated in real time across all users
- Have the changes saved when I close the board so that I can see them next time
 I open the application
 - Save the state of the board remotely
- collaborate with other user on the same board so that we can both work at the same time
 - Users would have the ability to work on the project at the same time, and changes will be visible for the whole group.
- create cards with a title so that I can list my tasks
 - There's a button to create a new card, when you press it you get prompted to enter a title. This title is then displayed on the card when viewing the lists.
- have the ability to rename and delete cards so that I only have the desired cards
 - Should have a rename and delete button on each card
- create lists with a title so that I can have personalised lists
 - Each title has a button for editing its title that is presented on the top of the list.
- o have the ability to rename and delete lists so that I can repurpose my lists
 - Lists can have different purposes throughout the whole project. They will have a button to edit their name to illustrate their new purpose, or even to delete them.
- be able to access the application without any registration so that I can access it easily and quickly
 - No user information is needed to use the application
 - The user can join a board right away with the right key or password

Multi-Board

Users should be able to change between boards.

As a user I want to...(see landing page mock)

- I should be able to delete a board
 - By deleting a board, it should be deleted everywhere
 - Have a warning message shown when deleting a board, to alert the user that that's a permanent action
- join boards so that I can have lists from multiple boards without having to create a new board
 - Press a button to search for a specific board
 - Users should be able to join multiple boards using a generated key given by the admin who created the board
 - it can be identified more efficiently in the database

- Have a landing page that lets the user decide whether to see the overview of all boards or a certain board by id, so that they can manage their boards easily (see Landing page mock)
- Have an overview of all boards
- Name the board
 - Assign a name to the board
 - Have the ability to change the initial name

Additional Card functionality

Cards should have additional functionality to provide more personalization. These include features such as a description or a nested task list.

As a user I want to... (see card overview)

- edit the details of a card, such as the title, description and subtasks so that I can customise it and I don't have to make a new card every time
 - Each card has a text box where additional description can be added.
 - Each card has a button for adding subtasks, and added subtasks will be listed on the overview of the card
 - Each card has and edit option, where all attributes of the card can be changed
- see the progress for nested tasks (e.g: 2/3 done) so that I have a clear overview of my progress
 - The users can see a progress bar on the overview of the card that tracks how many subtasks are completed

Tag Support

Cards should have coloured and named tags that show of which type they are. These can be used to quickly see which cards contain similar content.

As a user I want to...

- Use tags within a card so that I organise and highlight certain cards
 - The tags of a card show up on the card below the description
- Make board-wide tags that I can apply to any card in the board,
 - When a tag is changed, it changes on all cards that have that tag on the board
- Add, change and delete tags
 - There is a button to add a tag to a card, this should prompt you with all the tags in this board or an option to make a new tag
 - When you make a new tag you can choose a name and a colour
 - There is a button the remove a tag form a card
 - There's a button to fully delete a tag form a board

• Customization (see Card overview mock)

Users should be able to customise their experience, this includes changing colours of tags, cards and the background.

As a user I want to...

- customise the background and colour of the board and its cards so that I can personalise it to my liking
 - Each card has an edit button that provides the user with a colour picker that changes the card's colour to the selected one
 - Boards also have the same colour picker functionality as described above, which changes the
- change the colour and font of the text within cards so that they match the rest of the personalisation
 - Cards have a button that opens a text customization menu which has a text input for font-size and a colour picker for text colour
- change the template of tags so I can better colour-code my tasks
 - When a tag is created, the user is prompted with a menu that asks to provide a name and a colour for the newly created tag
 - Tags with the same name and/or colour are acceptable

Keyboard shortcuts/usage

Some tasks can be performed by using keyboard shortcuts, by pressing one or multiple keys on the keyboard.

As a user I want to...

- Press the enter key to save a new card
- Press the escape to guit the overview of a card
- o Press the backspace key to delete selected lists or cards
- Press N to create a new card
- Press the up/down arrows in order to navigate a card's position inside a list
- o Press the left/right arrows in order to navigate a card's list inside a board

Password protection

When a board is created as a password protected board, they are read only to users who do not have the password. Only users with the password can modify the board

As a user I want to...

- have password protected boards so that only those with the password can modify the board, otherwise it is view-only.
 - The creator of the board also creates the password (if they opt for a password protected board)

- The user will need both the board key and the password to be able to write to the board.
- Without the password, a user can only see the board
- With a password, users can
- The admin does not need the password to access the admin functionalities and can change the password only with the key
- Anyone with the password can change the password
 - This will go into effect for other users only after they close and reopen the board.
- The admin can revert password protected boards to all-access boards
 - This goes into effect immediately

Admin functionalities

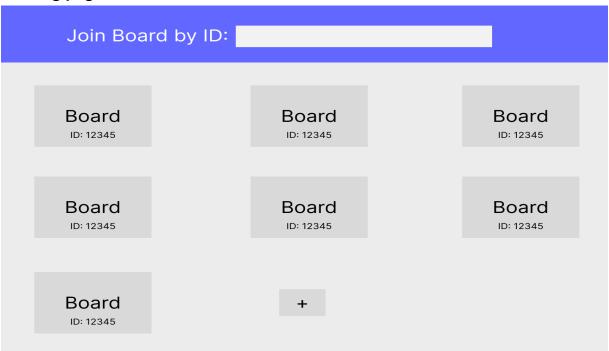
These are functionalities of the application only the admin has access to. They mainly include database and server operations.

As an admin I want to.. (See: admin control page)

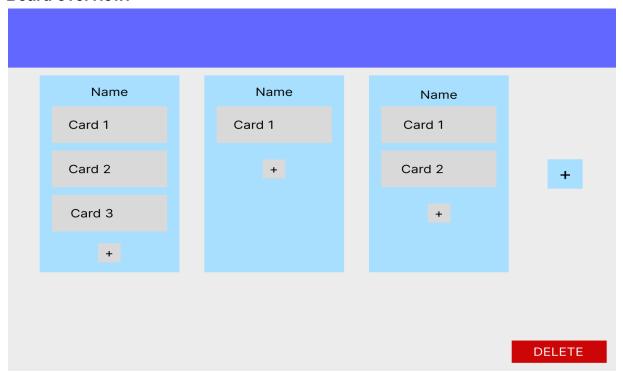
- restart the server so that I can clear the stored data and the boards
 - o The server restarts connection and clears all data
 - No record of previous data is kept
- unlock password protected boards and change its password or other attributes so that password related issues can be solved (e.g. a user forgets their password)
 - Admins have full access to all boards, regardless if they are password protected or if the correct password was provided by the admin
 - Admins can change the name of the board without being logged in
 - Admins can also change all other attributes of boards, having full access over every board
- be able to delete boards so we can get rid of unused boards
 - Delete any board from a separate menu using it's ID
 - When a board is deleted all information regarding that board is permanently removed from the database and the board becomes inaccessible

Mocks:

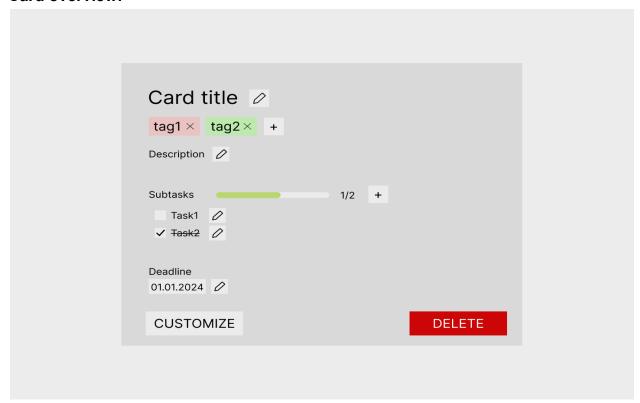
Landing page:



Board overview:



Card overview:



Admin Control page:

