TimeWise

STAKEHOLDERS

- User: A person who has access to a board and is able to view, edit and delete it fully or partially, in order to utilize the application.
- Administrator: A person who has full access to the functionality of the app, as well as the servers, and is responsible to manage the correct operation of the project.

TERMINOLOGY.

- Card: the entity that represents a specific task that the user wants to complete.
- List: the unit that combines 'Cards' into different groups (e.g. TODO, Doing, Done). A list can contain multiple cards.
- Board: the canvas where 'Lists' are displayed. A board can contain multiple lists.

MUST REQUIREMENTS

EPIC 1: Core functionality

These basic features are needed, so that the app can function in its simplest form.

As a user, I want…

- to be able to use the application anonymously, so that I can divide my tasks into cards quickly, without providing any personal information.
  - Acceptance Criteria:
    - The user can access and edit the board without registration.

- to create new lists within a board, so that I can organize and structure my cards.
  - Acceptance Criteria:
    - The user can create multiple lists within a single board.
    - The user can give the list a name.

- to create new cards with different titles within my lists, so that I can represent my tasks.
  - Acceptance Criteria:
    - The user can create a card within a list.
    - The user can give the card a title.
    - The user can see the title of the card in the board overview, within a list.

- to move between different screens in a maximum of three clicks, so that I can easily switch between functionalities.

- the interface to be clearly labeled and accessible, so that I have a pleasant user experience.
    - o Acceptance Criteria:
        - ▪ The layout should include icons and explanatory text when you hover over a button.
        - ▪ The design will be minimalistic, making it easy for the user to find what they need.
        - ▪ The application should be responsive and have smooth transitions that load within less than 1 second.

- to be able to share and work on the same board, so that I can collaborate with other users.
    - o Acceptance Criteria:
        - ▪ There is support for multiple users to be connected to the application at the same time.
        - ▪ Multiple users can make changes simultaneously to the same board and the lists and cards within it.

EPIC 2: Client-Server Application

These features ensure that the integrity of the data is preserved indefinitely and accessible from different devices.

As a user, I want…

- my data to be stored in a reliable database, so that I can use the app continuously without losing my information.
    - o Acceptance Criteria:
        - ▪ When I make changes to my boards, lists, and cards, the changes are automatically saved to the database.

- the overview of a board and actual data to be synchronized automatically across different devices, so that changes are visible from anywhere.
    - o Acceptance Criteria:
        - ▪ The application should synchronize the board overview as soon as it is updated, across all devices.
        - ▪ The synchronization should be seamless and automatic, without requiring the user to manually trigger it by pressing a button.

As an administrator, I want…
- to be able to monitor usage and performance of the application so that I can make improvements as necessary.
    - o Acceptance Criteria:
        - ▪ There is a dashboard or other interface where administrators can view usage and performance metrics.

- ▪ Metrics include things like server logs, number of active users, frequency of use, and any error or performance issues.

- ● to be able to restart the server without losing data, so that I can ensure that the app operates correctly and fix problems in functionality.

- ● to be able to delete boards, so that I can remove information that has not been used for an extended period of time.

EPIC 3: Flexibility

These features allow the user to reorganize and modify their workspace.

As a user, I want…

- ● to be able to delete lists, and/or cards so that I can remove redundant information.
  - o Acceptance Criteria:
    - ▪ The user should be able to delete a list by clicking on the delete icon next to the list name.
    - ▪ The user should be able to delete a card by clicking on the delete icon next to the card name.
    - ▪ When a list or card is deleted, it should be permanently removed from the user's workspace and cannot be restored.
    - ▪ The user should be prompted to confirm the deletion action before the list or card is permanently deleted to prevent accidental deletion.

- ● to be able to drag and drop cards between lists so that I can easily change their placement.
  - o Acceptance Criteria:
    - ▪ The user can select a card by clicking on it, and then drag and drop it into another list.
    - ▪ The card is visually moved from the original list to the destination list upon release of the mouse click.
    - ▪ If the user drags a card outside of the board area, the card should not be lost and should be able to be retrieved easily.

- ● to be able to drag and drop lists within the board so that I can structure them in a clear manner depending on their priority at the time.
  - o Acceptance Criteria:
    - ▪ The user can select a list by clicking on its title and then drag and drop it into the selected position on the board.
    - ▪ After moving a list, its contents should remain unchanged.

SHOULD REQUIREMENTS

EPIC 4: Enhancements to Basic Functionality

These features build up on the existing functionality, allowing the user to create multiple boards and add details to cards.

As a user, I want…

- to create a new board, so that I can divide my cards more efficiently.
    - Acceptance Criteria:
        - The board is saved in the database and can be accessed later using a unique key.
        - The board can be given a name upon creation.

- to be able to access a homepage from all pages, so that I can create a new board or search for an existing one.
    - Acceptance Criteria:
        - There is a page that has a "create a new board" button and a search bar.
        - Clicking on the homepage button - which is visible from all pages - will lead the user back to the homepage.

- to be able to join boards by entering a key, so that I can collaborate with other users on specific boards.
    - Acceptance Criteria:
        - There is a textbox where keys can be entered.
        - Upon entering the valid key and pressing the 'search' button, the application will display the corresponding board.

- to be able to delete boards, so that I can discard unnecessary information.
    - Acceptance Criteria:
        - There is a "delete board" option available.
        - Clicking on the "delete board" option prompts a confirmation message to ensure that the user wants to delete the board.
        - If the user confirms the deletion, the board and all of its contents (lists and cards) are permanently deleted.
        - After the board is deleted, it cannot be accessed anymore by searching for its key.

- to be able to add a description to my cards so that I can provide additional information about the card.
    - Acceptance Criteria
        - The user should be able to access the card details by clicking on the card.
        - There should be a text box where the user can enter the description of the card.

- The user should be able to save the description by clicking on a "Save" button.
- The saved description should be displayed on the card for future reference.

- to be able to edit or delete the description of my card, so that I can modify it if necessary.
- to be able to create subcards in the form of checklists within cards, so that I can break down large tasks into smaller sub-tasks.
  - Acceptance Criteria:
    - The user should be able to easily create new checklists within a card.
    - The user should be able to add items to a checklist.
    - The user should be able to edit or delete items from a checklist.
    - The user should be able to mark items within a checklist as complete or incomplete.
- to be able to view the progress of a checklist in the overview of the board, so that I can keep track of my progress without having to open the detailed view of the card.
  - Acceptance Criteria:
    - The user can see the number of completed items of a checklist out of its total number of items.

EPIC 5: Customization

These features provide options for personalization, allowing for a better user experience.

As a user, I want…

- to be able to create and manage tags for all cards, so that I can relate different cards to one another.
  - Acceptance Criteria:
    - There will be a button on the board overview, that when clicked, will drop down a tag management window.
    - After opening the window, the user can create new tags, edit, and delete existing ones.
    - The changes will affect all cards within a board (and not only a specific card).
- to be able to manage the tags of a specific card, so that I can categorize cards.
  - Acceptance Criteria:
    - There is a plus button in the detailed view of the card that allows the user to add a new tag to it.
    - There is a delete button next to every tag applied to a card that allows the user to remove it.
- to be able to customize the background and color of my boards, lists, and cards, so that I can personalize them.

COULD REQUIREMENTS

EPIC 6: Keyboard Shortcuts

These features suggest alternative options to conventional navigation of the application to perform repetitive actions more efficiently.

As a user, I want …

- to be able to use keyboard shortcuts, so that I can quickly navigate and perform actions.
    - Acceptance Criteria:
        - The keyboard shortcuts should work consistently across different pages and features of the application.
        - The keyboard shortcuts should be compatible with commonly used keyboard layouts.

- to create a new card by pressing CTRL + M, so that I can save time.

- to open the detailed view of a selected card by pressing CTRL + O, so that I can perform common actions faster.

- to be able to exit the detailed view of a card by pressing ESC, so that I can quickly return to the board overview.

- to be able to save changes in the description of a card by pressing CTRL + S, so that I can update the description more efficiently.

EPIC 7: Security

These features ensure that the user's data is protected at all times.
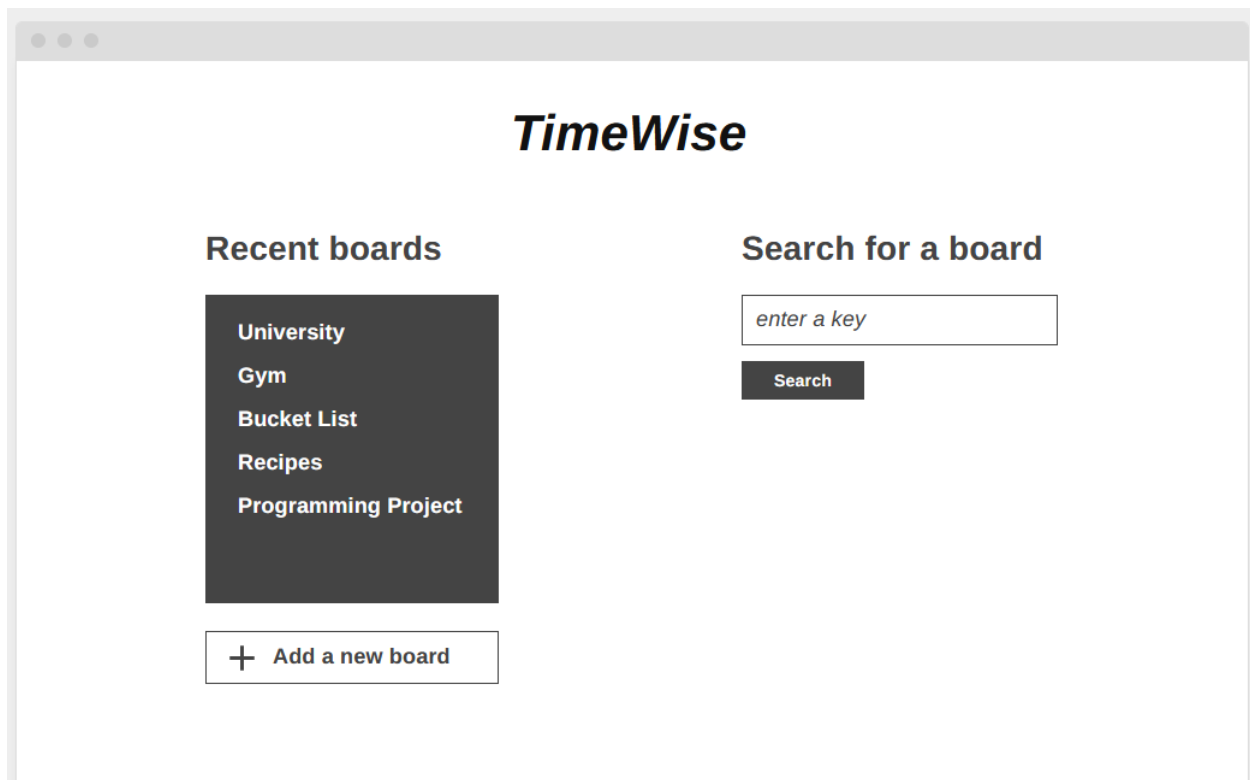
As a user, I want…

- to be able to password-protect boards, so that I can keep sensitive information secure and control who can access them.
    - Acceptance Criteria:
        - The board creator can set a password for the board.
        - The board can only be accessed with the correct password.

- to be able to set different access levels for board members, such as read-only or write.
    - Acceptance Criteria:
        - When creating the board, a user can set two different passwords, one that gives read-only access and one that gives write access.
        - A user can set access levels for board members by sending the password to other users.
- to be able to view a board when given read-only access, so that I can see its contents

- to be able to view and edit a board when given write access, so that I can make changes to its contents.
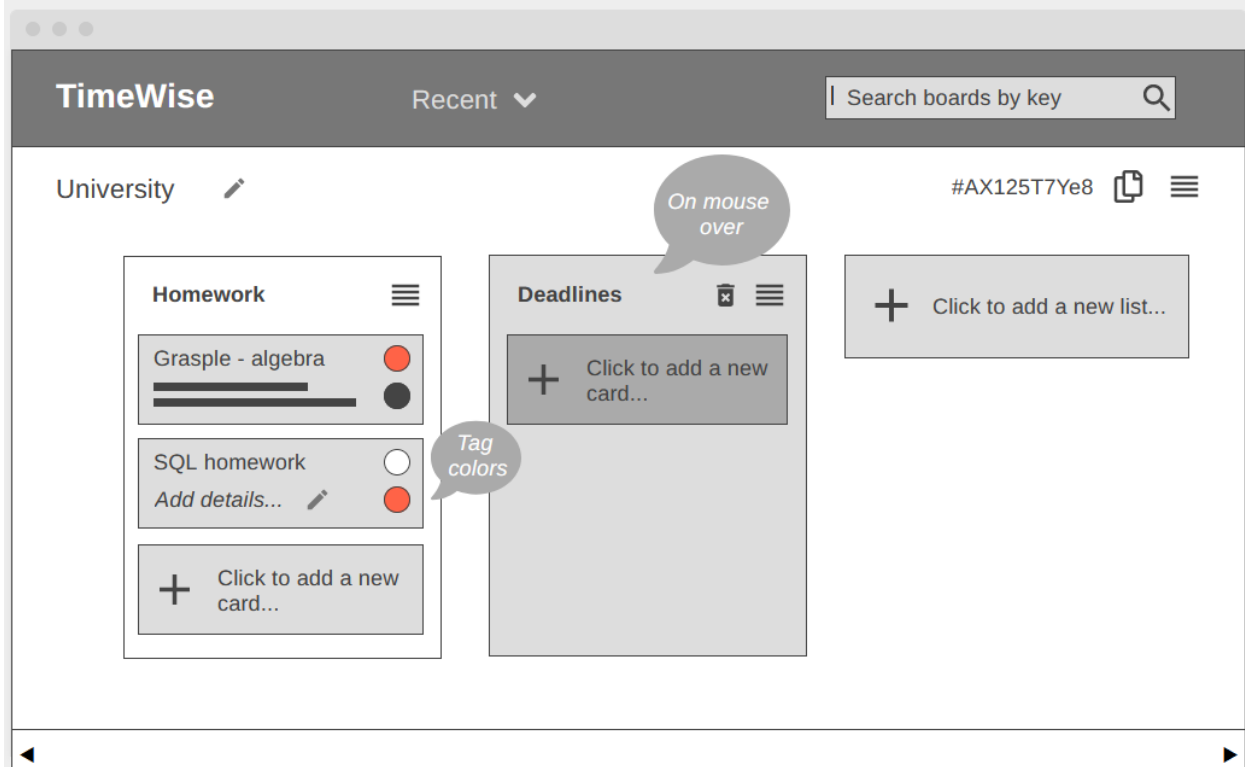
As an administrator, I want…

- to be able to reset passwords, so that I can provide support to users who have forgotten them and enable them to access their boards again.
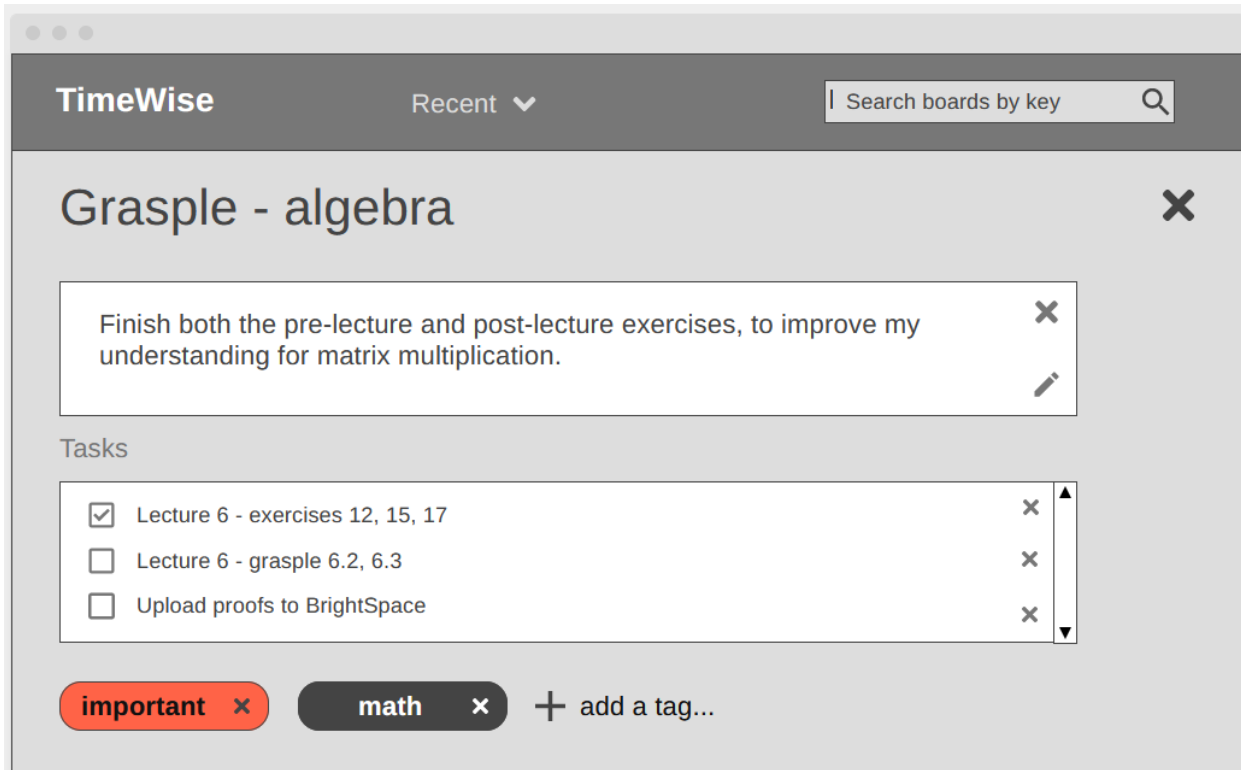
MOCKUPS

Start Screen of the application

Board overview of the lists and cards in a particular instance of a Board named 'University'

Detailed view of the card named 'Grasple - algebra' that includes a description, a checklist and two tags