

# Scrum Board Application

## Stakeholders:

- **User:** Any person should be able to join and create boards, with full editing rights
- **Admin:** The person who hosts the backend on their computer.

## Terminology:

- **Board:** a collection of lists, can be accessed by multiple people with a password.
- **List:** a section of the board which contains the relevant cards and a title representing it to ho.
- **Card:** a task with a description, tag and nested task list
- **Tag:** simple word that can describe a task

## Minimal Application

As a user, I want ...

- ☒ To be able to create a board without registering, so I can increase my efficiency working in a team
  - ☐ Created board appears in my overview.
  - ☐ Created board appears in the overview of another client.
  - ☐ Created board is added to the database.
- ☒ To be able to join the board without registering, so I can easily access the boards
  - ☐ When running the application you are joined to the main and the only board (minimal requirements)
- ☒ To be able to collaborate with other users on the same board, so I can work on the same board with other users
  - ☐ The board is systematically synchronized
  - ☐ The board can be edited by other users at the same time
- ☒ To be able to create lists in boards, so I can organise my cards
  - ☐ Created lists appear in my overview.
  - ☐ Created lists appear in the overview of another client.
  - ☐ Created lists are added to the database.
- ☒ To be able to remove a list from boards, so I can organise my cards
  - ☐ Removed lists are deleted in my overview.
  - ☐ Removed lists are deleted in the overview of another client.
  - ☐ Removed lists are deleted from the database.
- ☒ To be able to create cards in lists, so I can manage my work
  - ☐ Created cards appear in my overview.
  - ☐ Created cards appear in the overview of another client.
  - ☐ Created cards are added to the database.
- ☒ To be able to remove cards from lists, so I can manage my work
  - ☐ Removed cards are deleted in my overview.
  - ☐ Removed cards are deleted in the overview of another client.
  - ☐ Removed cards are deleted from the database.
- ☒ To be able to drag a card and drop it into another list, so I can organise the board
  - ☐ The card is removed from one list.
  - ☐ The card is added to the other list.
  - ☐ The card is switched to another list in the database.

- ⊘ Each card should have a title with which it can be identified.
  - ⊘ Each card needs to have a title added to it.
  - ⊘ The title is used to identify the card.

As an admin, I want ...

- ⊘ To host the server which contains the boards, so the boards are accessible
  - ⊘ The boards can be accessed by users without having to host the server.
- ⊘ To restart the server without losing the boards, so no data is lost
  - ⊘ The data of the boards will be saved in a database.
- ⊘ That the server does not crash when a client drops out, so I can just leave the server running in the background
  - ⊘ The server will always be accessible regardless of any user leaving the application.

## User interface

As a user, I want ...

- ⊘ To have a visually consistent and intuitive application, so I can enjoy using it
  - ⊘ Have a very easy and gentle learning curve whilst using the application.
  - ⊘ Buttons should be intuitive and there should be no ambiguity about it's purpose.

## Multiple board functionality

As a user I want...

- ⊘ To be able to create multiple boards, so I can divide my work
  - ⊘ When creating a new board the application will provide the user with an automatically generated key.
  - ⊘ Board and cards will have the same features as in the minimal application.
  - ⊘ Upon start of the application, user gets a prompt in which they can either create or join a board.
- ⊘ To be able to join multiple boards, so I have access to the work of my colleagues
  - ⊘ User can enter a key and collaborate in a board with other users

## Card details

As a user I want...

- ⊘ To be able to add details to cards, so I can define the cards more accurately.
  - ⊘ Cards will have a description which will be stored in the database.
  - ⊘ Cards will have a nested task list.
  - ⊘ Nested tasks will be stored in the database as a data structure.

## Tag support

As a user I want...

- ⊘ To be able to add tags to cards, so I can organize my cards.
  - ⊘ Cards will have a list of tags with which they can be identified.
  - ⊘ Tags will be stored in the database.

## Card customisation

As a user I want...

- € To be able to add colours and backgrounds to cards
  - ⌘ User is able to change the colour of a card
  - ⌘ User is able to change the background of a card

## Keyboards shortcuts

As a user, I want...

- € To be able to use keyboard shortcuts, so the application becomes easier to use. (eg: When typing the name of a card, if *enter* is pressed the card is created)
  - ⌘ User can add a card to a list by clicking on an empty space on the list.
  - ⌘ User can delete a card from a list by clicking the card and pressing delete.
  - ⌘ User can finish editing a card by pressing enter.

## Password-protected boards

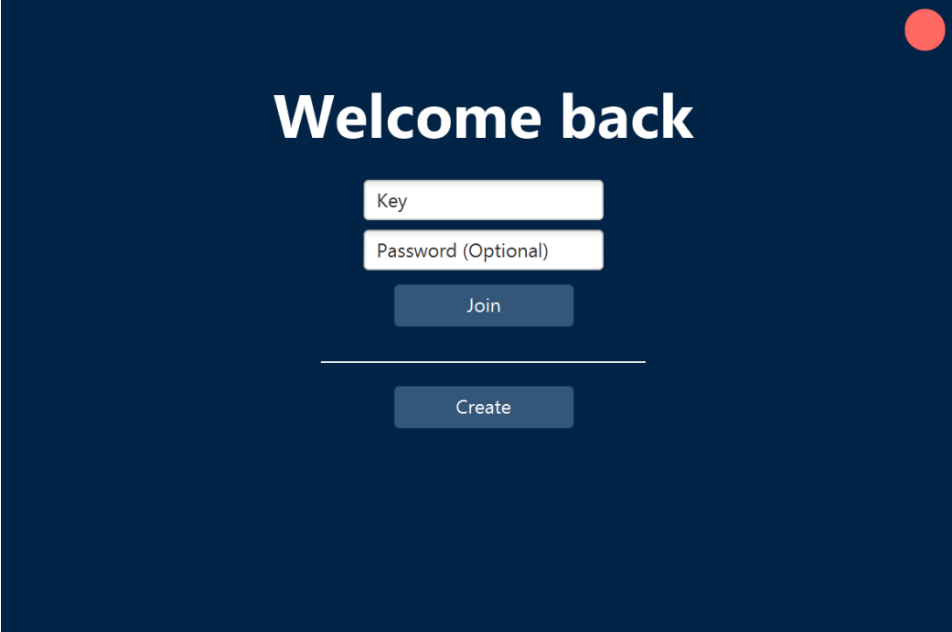
As a user, I want...

- € To be able to set a password for a board, so only authorized people can edit it
  - ⌘ When creating a new board, user has the option to add a custom password to a board such as in the first mockup.
  - ⌘ Password is be stored in the database.
- € To have a recovery key, so I can change the password
  - ⌘ A recovery key will be generated for the user upon creation of the board.
  - ⌘ When changing the password, this key will be required.
  - ⌘ Key is stored in the database.

## Card images

- € To be able to add images to cards
  - ⌘ Upon creation of a card, user can upload an image from his computer or via an URL.
  - ⌘ Image is stored in the database.

## Mocks



A login form mock on a dark blue background. In the top right corner, there is a red circle. The text "Welcome back" is centered in a large, white, sans-serif font. Below it are two white input fields: the first is labeled "Key" and the second is labeled "Password (Optional)". Under the password field is a dark blue button with the text "Join" in white. A thin white horizontal line is positioned below the "Join" button. Underneath the line is another dark blue button with the text "Create" in white.

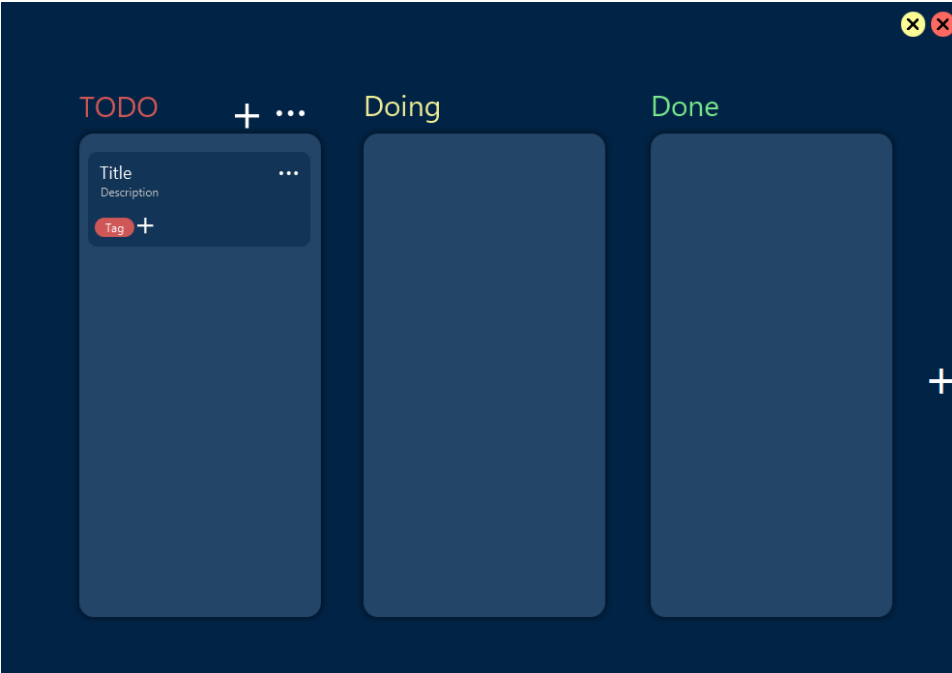
Welcome back

Key

Password (Optional)

Join

Create



A Kanban board mock on a dark blue background. In the top right corner, there are two small circular icons: a yellow one with a black 'x' and a red one with a black 'x'. The board is divided into three columns. The first column is titled "TODO" in red, followed by a white plus sign and three dots. The second column is titled "Doing" in yellow. The third column is titled "Done" in green. Each column contains a tall, dark blue rectangular card. The "TODO" card has a header with "Title" and "Description" in white, a red pill-shaped button with the text "Tag" and a white plus sign, and a white three-dot menu icon in the top right corner. To the right of the "Done" column is a large white plus sign.

TODO + ... Doing Done

Title  
Description  
Tag +

+