

Talio: Your personal Task List Organizer

User stories

Stakeholders

User: any person that engages with the user-side application to view or modify boards.

Admin: the person that starts and hosts the server-side application.

Terminology

Board: Boards are the highest level container of tasks. Board consists of multiple lists of cards. Every user might have multiple boards, and some boards might be shared between the users.

List: Lists are a part of the board. Every list is owned by exactly one board. A list represents a list of cards, and has a title that uniquely identifies it.

Card: Cards are a part of the list. Every card is owned by exactly one list. Cards represent individual tasks. Each card is mainly characterised by a title.

MUST requirements:

As a user, I would like to...

- choose an username which identifies me and links me to my board.
- my data to be stored on the server, so I can access my boards from any device and at any time using my username.
- create new cards characterised by a descriptive title, so I can keep track of my tasks.
- create lists of cards, so I can better organise my tasks by keeping them grouped on relevant criteria.
- give titles to my lists, so I can better differentiate and organise them.
- remove cards and lists to keep track of finalised tasks.

- drag and drop cards between lists in a board for increased simplicity of use.
- have a simple graphical user interface for better accessibility and improved usability.
- see only a few lists on every board, and be able to scroll to see the rest of them, so the user interface is not over-crowded.
- see only a few cards in every list, and be able to scroll inside the list to see the rest of the cards, so the user interface is not over-crowded.
- be able to distinguish between different cards on the board, so that it is possible to navigate among them.

As an admin, I would like to...

- run a server-side application using Spring Boot and Java FX, so that the application can be used on personal computers.
- be able to access logs of the application, so I can better keep track of the application state.
- have multiple concurrent users connect to the application and automatically serve them the boards associated with their respective usernames, so that application can be used by many people simultaneously without delays.
- have the boards and the user information stored in a database on the server, so that data is not lost when the application terminates.
- have a real-time synchronisation between the client-side application data and the server-side data in a database, so the changes are instantly stored on the server and will not be lost.
- to be able to restart the server without losing data, so that user boards remain unchanged by any problems with the server-side application.

SHOULD requirements:

As a user, I would like to...

- to get access to different boards based on the username I am using, so I can have boards that are associated only with my username and not shared with others.
- be able to join the boards by the local ID of the board, so I can share boards with others and boards can be shared with me.

- be able to participate in multiple boards at the same time, so I can have private and shared boards of tasks at once.
- have an overview of the boards I am part of, with separation between the boards that I am an owner of and boards that I was invited to, from where I can choose which board is on display, so that I can easily switch between boards.
- be able to create and delete tags, so I can add those to cards.
- see a menu at creation of the new card, where I will be able to add an arbitrary text description, nested sub-task lists and tags to the cards, so I can better organise my tasks and divide them into smaller goals with clearer descriptions.
- be able to see the description, sub-tasks and tags of a card by clicking on it, so I can access the information saved in a card.
- be able to add and delete sub-tasks in a card's list, so I do not have to recreate tasks when changes to the sub-tasks are needed.
- view only the cards that have a specific tag, so I can quickly find the ones sharing that tag.

As an admin, I would like to...

- manage and delete any boards, so that I can moderate the users.
- see which users have access to which boards so that I am able to collect statistics on the behavioural patterns of users.

COULD requirements:

As a user, I would like to...

- change the background colour of boards, and colours of tags, so I can make the application look the way I want.
- be able to use standard keyboard shortcuts in the application so that it's easier and faster to use.
- have password protected boards, so that only I and people who know my password can modify those boards.
- switch the password protection on a board so I can make some boards available only for me and people with whom I shared the password.
- have the application load in under 1 second so it feels more reliable and professional.

- have a modern and nice looking user interface so that it is comfortable to spend a significant amount of time using the application.
- have an interface explanation as part of the help menu, so that if I forget how to use the application I can quickly recall.

As an admin, I would like to...

- grant or restrict user access to specific boards, so that I can disable access to boards of malicious users.
- switch password protection on user boards, so that I can control availability of the boards for users.
- have a graphical user interface for server-side application, so that administrative work is easier to do, and can be done faster.