

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.

Minimal Viable Product Epic

This will be a client-server application where users can organise their tasks. The application allows them to join a collaborative board, where they can create, edit and delete lists of cards that represent tasks. The application synchronises user data to the server where it is stored. The admin can have multiple users join the board on the same server.

This is the minimal acceptable form of the application. The application after reaching this stage should be usable and function in an adequate way.

As a user, I would like to...

- be added to a board when I start the application, so I can start tracking tasks right away
- create lists for cards, so I can better organise my tasks by keeping them grouped on relevant criteria.

- add new cards to the end of a list, that are characterised by a descriptive title, so I can keep track of my tasks and the relative order of the cards does not change after addition.
- permanently delete cards from lists and lists from boards (implicitly deleting all cards contained) to keep track of finalised tasks.
- drag and drop cards inside a list and between lists in a board for increased simplicity of organisation.

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.
- allow multiple users to connect at the same time to the server, so that only one server is needed for a large number of users.
- serve all users the same common board when they start the application, so they can start tracking tasks right away.
- 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 unaffected by any problems with the server-side application.

Board Epic

This epic describes more advanced features related to boards. Features we want to implement are the support of multiple boards. Users can create new boards or join boards created by other users using a key. Boards can be password protected to restrict editorial access. There will also be an overview to switch between which board is currently displayed.

As a user, I would like to...

- 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.

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.

List and Card Epic

This epic presents additional features related to lists and cards. Lists can be named, and it will be possible to edit them. The cards can also be edited extensively - add, edit and delete a description, tags, and a list of sub-tasks.

As a user, I would like to...

- give titles to my lists, so I can better differentiate and organise them.
- be able to create and delete tags, so I can add those to cards.
- see a menu at the 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.

User Interface Epic

This epic introduces concepts related to the user interface. It accounts for the general feel and look of the user interface, the ability to customise the interface according to the user's taste, and the convenience of the application use. The user interface will be scrollable to prevent overcrowding of the screen and there will be functionality to facilitate

customization. The application will use keyboard shortcuts for ease of use.

As a user, I would like to...

- see only a few lists on the board, and be able to scroll to see the rest of them, so the user interface is not overcrowded.
- 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.
- 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.

Access Epic

This epic introduces different ways to control access of users to boards, and ability to share the boards between different users. Moreover, it introduces features related to the information access of application administrators, primarily password protection on boards.

As a user, I would like to...

- switch the password protection on a board so I can make some boards available only for me and the people with whom I shared the password.

As an admin, I would like to...

- be able to access logs of the application, so I can better keep track of the application state.