

Backlog draft

Stakeholders:

- User: Any person that uses our task board application.
- Admin: The server administrator who starts, stops and resets the server.

Terminology:

- Card: An object which represents a task.
- Task: Something that needs to be done.
- Tasklist: A list of related tasks.
- Taskboard / board: A screen containing 1 or more task lists.
- Tag: A keyword that can be added to cards in order to sort them into groups.

Basic requirements:

As a user I want...

- The task cards to show the title of the task, so I know which tasks they represent.
 - The task title is read from the database.
- To rename cards, so I make the task more understandable.
 - The title of the card changes on the board.
 - The title of the card changes in the database.
- To add cards, so I can keep track of my tasks.
- To delete cards, so I can get rid of cards I added by accident.
 - Deleted cards disappear from the board.
 - Deleted cards are removed from the database.
 - On the top right of the card, there is a delete button .
- To add, delete and rename tasklists, so I can organize my taskboard in a way that is appropriate for my use case.
 - Changes to list show up on the board.
 - Changes to list are communicated to the database.
- To be able to collaborate with other people single on a board, to facilitate teamwork.
 - Multiple users can access the same board at the same time.
 - Changes are updated live on other clients.
- To be able to access the boards without having to login as it will be used on trusted devices and the task of logging in will feel repetitive.
 - Every time I open up the application, I get to see the screen where I left off last time.
- To be able to see cards newly added by other users, as well as updates made to already existing cards without having to refresh the page, so that I can easily collaborate with users and see the changes they made in real time.
 - When a card is being edited by a user, other users cannot edit it, but they can visualise it. The changes made are automatically shown to everyone once the editing process is finished.
 - When a new card is created, all users can see it immediately, but they can only edit it once the user who created it is done with the editing process.

- To be able to change the order in which the cards are displayed, as well as change the column to which they belong using drag and drop, because this feature offers me immediate visual feedback so I can be sure I'm moving the right card to the right location.
 - Left-clicking on the top side of a card selects the card, and while the left-click button is pressed, the card follows the cursor. Once the left-click button is released, the card is unselected and remains fixed in its new position.

As an admin I want...

- All data to be persistent between restarts, so I can save time by not having to manually copy everything over.
 - Data is stored in a database instead of in memory.

Non-functional requirements:

- The application should use Java 11 or newer.
- The application should be made with a client-server model
- The UI should be made using JavaFX.
- The application should use Spring Boot on the server side.

Multiboard support

As a user I want...

- To access multiple boards because I don't want my tasks from different aspects of life to overlap.
 - To join a new board whenever I want.
 - To have all my changes saved so that I can come back to my closed board.
- To join a board using a name or key, so I can access a board that was created by another user.
 - To have the most up to date board so that I can see all the changes the other person made.
 - That the only requirement is a key and that I can access every board that I have the key to.

Detailed tasks

As a user I want...

- To add an extra description to my cards, this way I know better what I need to do to complete them.
 - Being able to add a description to my tasks.
 - See the description together with the card.
- To nest tasks in my "master" task, this way I can gradually finish my task.
 - Add the option to add subtasks to the card.
 - Store and retrieve the subtasks in their correct state (done / not done).
 - Change the state of my subtasks (done / not done)

Keyboard shortcuts

As a user I want...

- To have keyboard shortcuts, so I can work faster and more efficiently.
 - Keyboard shortcuts are a predetermined key combination.
 - Keyboard shortcuts have a predetermined function.

Tag system

As a user I want...

- To add tags to my cards, so I can easily categorise my tasks.
 - Cards can have 0 or more tags that are shown to the user.
 - Cards can have 0 or more tags that are saved in the database.
 - Tags are visible on the card.
- To have board specific tags, so unrelated tags don't clog up the tag list.

Customization

As a user I want...

- To have customisation like background colour and tag colour, so i can have my own board be more personalised.
 - Tags and boards can have a selectable colour.
 - Board and tag colour is saved in the database.

Password protection

As a user I want...

- To have the option to put password protection to ensure not everyone can edit or remove boards, so that crucial tasks are left untouched and still visible for the original writer of the task,
 - To edit a board, I have to click on an edit button at the top right, in which I have to fill in a password to edit said board,
 - Have an edit button on the top right of the board, in which you have to fill in a password to edit the board,
 - When I create a new board, I get the option to turn on password protection, to which a screen is provided where I fill in the password of my choice twice,