

Backlog

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.

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.

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Basic requirements

These requirements must be present to earn a passing grade.

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.
- To add, delete and rename tasklists, so I can organise 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 on a single board, to facilitate teamwork.
 - Multiple users can access the same board at the same time.
 - Changes are updated 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.
- Changes to boards to be synced without refreshing the application, so I can work together in real time.
 - Cards that are being edited are locked for editing by other clients.
- To move cards within and between lists, so I can move them to the correct location when the situation changes.
 - Cards appear moved on the boards.
 - The new position is updated in the database.
- To move cards by dragging them with my mouse, as this offers immediate visual feedback.
 - A card follows the cursor while the mouse remains clicked
 - The card returns to its original position if it is released outside of a list.

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.
- To start the server, so users can connect their clients to it.

Advanced Features

Multiboard support

There should be multiple different task boards and a way to access them.

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.

As an admin I want...

- To have a full list of all boards, so I can more easily access and manage them.
 - New boards are automatically added to the list.
- To have full access to boards (creation, deletion, editing), so I can correct any mistakes users make.

Detailed tasks

Tasks should have more details than just the title, like a description and nested subtasks.

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).
 - The card shows a progress indicator for the subtasks.

Tag system

There should be a tagging system to categorize cards. Tags can be attached to cards and are visible after.

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.
- To remove tags from cards, so I can delete tags that do not apply anymore.
 - The tag disappears from the card.
 - The removal is communicated to the database.

Customization

The look of the application should be customizable. Particularly the background colour and the tag colours should be changeable.

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.

Keyboard shortcuts

There should be some keyboard shortcuts implemented that offer another way to do actions that can be done with the mouse.

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.
 - There is a shortcut for creating cards.
 - There is a shortcut for moving cards.
 - There is a shortcut for deleting cards.

Password protection

Boards should have an option to be password protected, which blocks writing (but not reading), until the password has been provided.

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,
 - A password can be filled in to get edit access to a 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
- To remove password protection from a board, so I can lift protection when there are no longer any tasks that need it.
 - The password can only be removed when the board has been unlocked.
 - The password protection disappears for all users.

As an admin I want...

- To forcibly remove the password on a board, in case one of the users forgets the password for a board.
 - The original password is not needed to remove the protection