

Backlog

Team 29 - Pixel Pioneers

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Talio

Stakeholders:

User: Any person that is able to create a new to-do list/task/board

Admin: The person that manages the server, can make changes to all boards and can edit password protection

Terminology:

Board: A set of lists

List: A list of cards visible on the board, can be interacted with, it has a title.

Task: A computerized representation of a task

Card: The interactive box which represents a specific task, it has a title.

Tag: Text used to label one or more tasks

Interacting with a board (Minimal application)

As a user, I want ...

- to have a dashboard with the lists and tasks so that I can have a global view of the different tasks and organize them easily.
 - the lists should be displayed horizontally
 - each list should have a name
- to be able to open my dashboard without logging in or registering so that I can immediately start working on the tasks
- to be able to sort my tasks into different lists so that I can organize them in different workflows
- that my board stays consistent over multiple sessions so that I can have all the tasks already present when I reopen the app

- no changes are made that are not made by the user e.g. tasks can't get added or removed without the users input over time
 - closing the application and opening it again will not reset the board
- multiple users to be able to access my board at the same time so that we can collaborate and work on the same tasks together
 - users can contribute to the same board at the same time without any edits being lost in the process
 - when a user is editing a task for example, another user cannot edit that task until it is saved by the other user but the other user can make edits to other tasks on the same list/board
- the board to automatically and immediately synchronize the changes made by other users so that we can collaborate in real-time for maximum efficiency
 - Edits made should be updated to other users within 1 second
- to be able to drag and drop tasks in the same list and in between lists, in order of priority and domain so that I am able to complete them more efficiently
 - the cards representing the tasks can be dragged and dropped among lists in the board overview
 - the cards can be dragged and dropped within a list to order them by priority; the higher up in the list, the more important a task is
- that each task is represented as a card with a title so that I can clearly identify tasks without too many details being present
- to be able to add and remove cards and lists so that I can clear my board of completed or deprecated tasks

Multi-board

Description: Having multiple different boards in the application so that users can choose which board to read from and write to.

As a user, I want ...

- to be able to create new boards that have names so that I can have lists grouped by project/domain instead of having them all in one board
- to be able to access multiple boards by name so that I can work on different projects at the same time
 - The current board name should be visible

- In the board list, each board is represented by a card with the name of the board on it
- to see a list of all the boards so that I know exactly which projects are currently being worked on
 - From the board overview, you can see a list of all the boards upon pressing a button
- to open a board with a link so that I can easily share boards via any communication medium

As an admin, I want...

- to create boards so that each project can have its own designated board

Board management

Description: Managing different aspects of the board such as password protection, the lists and archiving.

As a user, I want...

- to be able to edit and delete boards that I have access to so that I can change the name of a project in case there have been changes or delete a board which is no longer needed
- to have password protected boards, so that I can restrict access to a specific board to only those that have the password
 - In the board list, a lock icon would be displayed next to the board name if it is password protected
 - When opening a password-protected board, a prompt would show asking for the password, also displaying a message if the entered password is wrong
- to be able to change the name of lists so that, if a name doesn't represent the reality of the working goals anymore, I can update it on the board.
- to be able to archive completed tasks and lists so that the UI is less cluttered.
 - On each task and list there is a "completed" button but also an archive button which will move it to the archive
- to be able to restore archived tasks and lists so that I can work again on those if needed

- On each board, there is an archive button that shows you the archived tasks and lists of that board. From there, each task and list has a restore button

As an admin, I want...

- to unlock password protected boards so that I can have access to everything to make sure everything is working correctly
- to change the password of password protected boards so that I can increase the security of the app if a password has been leaked or if a password has been forgotten
- to delete boards so that I can remove boards once I don't need them anymore

Task Management

Description: Managing different aspects of the tasks such as subtasks, tags and descriptions.

As a user, I want ...

- to be able to edit tasks in a list so that I can have well defined lists which reflect the current needs for a project
- to be able to add a description to tasks to explain more clearly to myself or coworkers what the task consists of exactly
- tasks to be able to have subtasks, that can be marked as done/not done so that I can break down bigger tasks into achievable steps and indicate which steps have been completed already
 - When in the task page, I should be able to see a list of all subtasks, represented by a name and a checkbox indicating completion
- to be able to drag and drop subtasks to order them with different priorities
- to be able to modify and delete subtasks so that I can modify the task to represent more precisely the needs I have
 - When in the task page, there should be buttons to add and remove subtasks
- to be able to create tags so that I can identify different topics or importance for the tasks

- to be able to add tags to each task so that I can set a specific topic or importance to a task
 - On the task card, in the board overview, I should see the tags, represented by a colored box with the tag name in it

Customization

Description: Users should be able to customize aspects of our application, so their experience with our application will be more pleasant.

As a user, I want...

- to be able to modify the color and name of existing tags so that I can easily visualize the different topics
- to be able to customize the background of the board so that I feel more comfortable using the app
- To set a board as favorite, it would be opened by default when I open the app so that I can directly work on my favorite project
 - The board should be shown with a star in the board list
 - If a user doesn't have a favorite board, the board list will be opened when the user opens the app
- to have the ability to choose between different languages so that I can use the app more easily if I do not master the English language

User Experience Improvements

As a user. I want...

- to be able to use commands by keyboard shortcuts so that I can work more efficiently than using the mouse for each action.
 - an undo shortcut so that I can undo a change that I made by mistake
 - copy paste and cut shortcuts for tasks and lists
 - a shortcut to open the task creation menu
 - a shortcut to open the subtask creation menu
- to be able to create recurring tasks(daily, weekly, monthly) so that I can gain time by not having to recreate the same task periodically
- to be able to set due dates for tasks and receive reminders so that I know exactly which task to prioritize and not forget about it

- to be able to see the history of changes made to a task or a list so that I can review the changes made by my coworkers
 - there should be a history button which will open a list of all the changes made on a task/list with the date and time on which they were done
- to be able to set an assignee for a task so that every coworker knows exactly on which task to work
 - when creating a task there should be a field that asks for a name, this field is not mandatory, and when inspecting a task this name would show up as assignee
- to be able to set dependencies between tasks so that I have a guideline to align my work on.
 - In the dependent task card, there should be the name of the task it's depending on
 - It should not be possible to mark the task as completed as long as its dependency task is not completed

Server management

Description: The admin should be able to manage different aspects of the server such as restarting the server and backup and restore boards.

As an admin, I want...

- to host boards only on the sever, so that the changes can be quickly propagated to all clients when someone adds/edits boards
- to be able to restart the server so that I can apply updates to the code and restart the server with the updated version
 - make sure that functionality and data is preserved when making changes to code
- to have a dashboard where I can easily find all the features listed above so that I can execute the features above quickly to be able to react immediately in a critical situation
- to be able to log in as an admin to unlock admin features so that I can execute my admin tasks directly from within the app without the need for a dedicated app.
 - There would be a button to login as admin, and a prompt would ask for the admin password.
- to be able to backup and restore boards so that I have a way to restore the app if a problem occurs on the server

Searching, sorting, viewing and filtering

Description: The user should be able navigate easily around all the tasks in every board. This can be done by filtering tasks following multiple parameters such as priority, subject, due date, assignee.

As a user, I want...

- to have a dashboard with the lists and tasks with a progress indicator so that I can have a visual indicator of the progress that has been done at that moment on the project (on a board)
- to be able to search for cards with a specific tag so that I can have a list of all the tasks I have to complete for a specific topic/importance
 - In the board overview, there should be a sort button and parameters that are defined by each existing tag. When I press one of those tags, I will see only tasks that have been given that tag
- to be able to filter tasks by due date, assignee or status so that I can easily see the tasks according to the filters without needing to look through all tasks
 - In the board overview, there should be a filter button and parameters. When I set a filter, only the tasks matching the filter should be visible in the board overview
- to be able to view previous and upcoming tasks in a calendar view so that I can plan my work calendar accordingly
 - In the board overview, there should be a open calendar view button that shows me a calendar where each task card is associated with the day of its deadline
- to sort tasks in each list by due date so that I can see which work should be prioritized and so that I don't miss any deadlines
 - In the board overview, there should be a sort button that will sort all the tasks by deadline

Non-functional requirements

- a client server application
- use Spring Boot
- use JavaFX