

Task Manager Application

Our application is going to fulfill the role of a personal task list organizer where users can keep track of multiple boards, set objectives, remove completed ones and interact with other users' input.

Mocks:

There are several mocks of the application in the appendix. The design is not definitive but it should give a rough representation of the functionality of the application.

Terminology:

Board: Highest level container. Boards consist of multiple lists.

List: Collection of cards. It has a name that describes the current status of the tasks in the list.

Card: Container described by a title that could have a detailed description, nested tasks and user-defined tag(s).

Task: User-defined string

MUST Requirements:

- Client-Server application using Spring Boot and JavaFX frameworks

As a user of the app, I want...

- to create a new board
- to create as many lists as needed
- to create as many cards as needed
- to be able to remove and edit cards
- to be able to remove and edit lists
- to be able to access the application freely - without registration
- to use the app together with others, simultaneously
- to have the board actively synchronize for everybody interacting with it
- a "Drag and Drop" interface for moving previously created cards around to different lists
- a "Drag and Drop" interface to change the order of cards on a list
- to have my cards consist only of a title
- to see only the title of the cards in the list view

SHOULD Requirements:

As a user of the app, I want...

- to have intuitive and well thought out graphical interface
- the ability to create as many boards as I wish
- to have reading rights amongst all boards
- the ability to name the boards I create
- to have access to a searching menu containing all current boards
- to benefit from a tag system for cards
- to be able to filter cards based on their tags

- to be able to use keyboard shortcuts for easier navigation and operations on boards
- to add longer description to cards
- to add tasks to cards
 - to add sub-tasks
- to add deadlines to tasks
- to display deadlines of tasks
- to add deadlines to cards
- to display deadlines of cards
- to join a board/ subscribe to one

COULD Requirements:

As a user of the app, I want...

- to have the ability to customize the color/image of the background
- to customize the color of the tags
- to customize the name of the tags
- to secure my own board by setting a password granting writing privileges to those possessing it
- to see task's creation date
- to see card's creation date
- to receive email notifications for upcoming deadlines
- to receive email notifications for updates on the boards
- to receive email notifications for updates on completeness of the cards
- to create cards that can be moved once a different user approves
- a section for notes/addendums
- to classify deadlines based on their importance: hard/soft deadlines, successive deadlines, deadlines for individual subtasks
- progress tracking for tasks and subtasks, either via a bar or by other visual cues
- a menu with all 'my' boards listed

Mocks

TODO

Setup team
repositories

X

Get lunch

X

+

Doing

Give lectures

X

Done

Prepare slides

X

+

Prepare lecture slides

I still need to polish the lecture slides for several upcoming lectures.

Tasks

☒ Collaborative Software engineering

☐ Git Assignment

urgent (x)

teaching (x)

+

Boards

Board 1

Board 2

Board 3