

Backlog - requirement engineering

1 Stakeholders

- *User* - All users of our application, they are able to create a board using an id/key and modify it.
- *Admin* - A user that can unlock password protected boards, remove or add boards, and restart the server.

2 Terminology

Board Refers to the main screen of our application, contains lists which in turn contain entries.. 1

Entry Refers to a task added to the board, organised on the vertical axis under a specific list.. 1

List Are on the horizontal axis encapsulate entries.. 1

3 The objective

We are building, as an overview, a personal task list organizer which is a board that contains lists and these lists in turn contain cards that can be moved between the lists and added/removed.

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4 Requirements

4.1 Mandatory for passing

1. Create a Client-Server Application (Spring Boot + JavaFX)
2. The boards must persist in a database, so the server should be connected to a database.
3. The ability to create a new board.
4. The ability to join a board created by another user.
5. The ability to add/remove/edit cards and lists.
6. The ability to pick a username before entering the project (no registration needed).
7. A intuitive interface, options, and buttons (summarize titles + extra simple description where needed).
8. The ability to have the tasks arbitrary ordered.
9. The ability that the progress between all players is synchronized, so everybody sees the same stuff at the same time.
10. The ability to drag and drop tasks.
11. The ability to have the tasks easily recognizable based on the title.

4.2 Should be implemented

1. The ability to join multiple boards using a key and a password and have them show up on the main page.
2. The ability to specific the server I want to connect to.
3. Password protected boards (will need to implement some hashing).
4. The ability to change a board from a public one to a password protected board.
5. Generation of SHA-1 identifiers for boards.
6. To have details on cards such as a description.
7. A nested task list.
8. The ability to add different tags to an entry to classify the task.
9. The ability customize boards and cards (Add a background, add colors for tags, choose font color and size).
10. Easy keyboard shortcuts to facilitate use of the application.
11. The ability to add sub tasks for tasks.
12. The ability to add media to cards (Pictures, icons, and attachments).
13. Easy edition of multiple tasks by virtue of the "tab" key.
14. Editing tasks and sub tasks directly from the board an to have them highlighted when editing
15. Different modes that a board can be set to (read-only, read-write).

4.3 Could be implemented

1. A list of all boards.
2. Board analytics such as: cards created, activity per week, users connected.
3. Optional deadlines and progress bars on tasks.
4. Filtering the tasks based on names and/or tags (optionally using fuzzy searching).
5. Board history to see how a board has changed over time, with the authors of these changes.

4.4 Do not implement

1. User management.
2. Race condition remedies.

5 Mocks

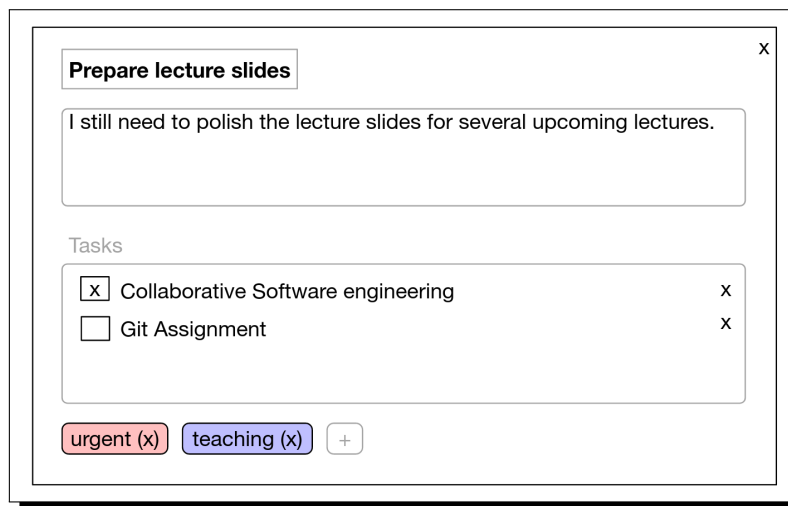


Figure 1: A mock task

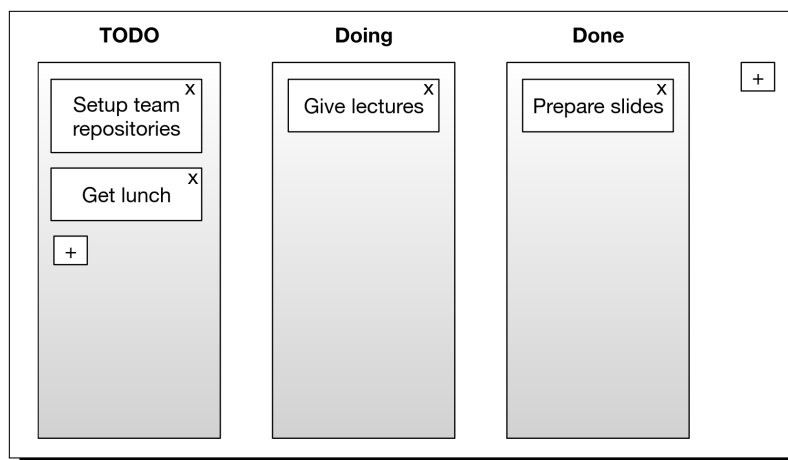


Figure 2: A mock of the board