# **Project Release-3 Requirements**

### Submission Deadline: July 20th 2022

In Release-2, you implemented functionality to create and manage *workspace* and *boards*. Your project is now ready to add *tasks* related features. In this final iteration of your project, you will be developing the following features.

NOTE: Authentication feature is mandatory. It means that the web pages of your application should not be accessible to the user without logging in.

#### Feature details

#### **Task Management**

- a. **Create tasks:** Create tasks in the form of cards. Note that tasks are a part of boards and a workspace contains any number of boards.
- b. **Date field:** Create a date field for a task; it is used as due date for the task.
- c. **Assign tasks to members:** Assign a task to a team member belonging to the workspace.
- d. **Change status of tasks:** Allow users to change the status of tasks. For example, a user should be able to move a task from *To-Do* list to *Doing* list. Any user who is a part of the workspace can change the status of the task. Obviously, changes in the status are persistent (i.e., another user should be able to see the changes).

#### Search and filter

- a. **Search tasks:** Search for task cards based on task names. You would have a search box on the same page (i.e., board page where you are displaying the tasks in lists).
- b. Filter tasks: Filter the tasks based on the due date. You will offer at least three filters.
  - a. Due today
  - b. Due in this week
  - c. Overdue

## Other requirements

- a. You are expected to have test cases for the backend with min. 70% line coverage. You need to have test cases for business logic; you may use mocked database objects wherever necessary.
- b. Working CI pipeline (both compile and test stages are passing without any issue).
- c. Run DesigniteJava on your backend code. Prepare an Excel sheet where you will analyze each reported smell (all except testability smells) and provide a justification.
  - If the identified smell is genuine, you will refactor the smell and write "Refactored" in justification.
  - o If the identified smell could not be refactored, justify your understanding.

# Marking Rubric

Task	Description	The task is complete with at least 70% code coverage	75% of the task is complete with test cases	50% of the task is compl ete with test cases	25% of the task is compl ete with test cases	Neithe r the task nor test cases are complete
Create tasks	API to create tasks	2	1.5	1	0.5	0
	Task cards on the UI	1	0.75	0.5	0.25	0
Date field	Save the selected date in your database using the API	1	0.75	0.5	0.25	0
	Have a date field on the UI to add completion date of a task	1	0.75	0.5	0.25	0
Assign a task to a member	API to assign a member to a task	2	1.5	1	0.5	0
	Option on the UI to add assignee for a task	1	0.75	0.5	0.25	0
Change status of tasks	API for changing the status of tasks. For e.g., to-do to in progress	2	1.5	1	0.5	0
	Option on the UI to change the status of tasks	1	0.75	0.5	0.25	0
Search based on task names	API to get the search keyword and return search results	2	1.5	1	0.5	0
	Search box to accept the search keyword and display results on the UI	1	0.75	0.5	0.25	0
Filter based on date	API for filtering the tasks and get the results according to the filter	2	1.5	1	0.5	0
	Filter option on the UI to choose one of the three filters mentioned in feature details section, and display the results.	1	0.75	0.5	0.25	0

Pages should not	Use localstorage on the frontend to check if a	1	0.75	0.5	0.25	0
be	user has logged in. You					
accessible	can set a flag in the					
without	localstorage to check if					
logging in	user has logged in.					
Working CI		2	1.5	1	0.5	0
pipeline						
Smell		4	3	2	1	0
analysis						
and						
refactoring						