Mid-assignment Submission

1 Use Cases

1.1 Log In

To cater for multiple users while upholding users' privacy, the user will have to log into the system before being allowed to perform any actions and view any data.

1.2 View Task List

The main page of the system after having logged in will be a table with all tasks displayed. This table can be sorted, filtered, and queried on. Only the key details of the task will be displayed.

1.3 Create Task

Through a button on the main page, users can create a new task via a dialog.

1.3.1 Attach Tags To Task

During task creation, users have the option of adding tags to the task. A list of previous tags will be displayed to the user for convenience. The user also has the option of adding their own tags. Once a tag has been attached, the user can then filter the task list according to it.

1.4 View Task Details

In order to view all the information about a task, users can click on it in the task list to bring up a dialog.

1.4.1 Edit Task Details

Here, users can make changes to the task information.

1.4.2 Edit Task Tags

The tags attached to the task can be edited by the user, with all functionality available as per Section 1.3.1.

1.4.3 Delete Task

Users are able to delete tasks. A confirmation prompt will appear so as to prevent accidental deletion of tasks.

1.5 Log Out

In order to end their session, users can click a button in the header to log out of the system.

2   Problems Faced

2.1   Time Constraints

I only found out about this assignment on the 27th of December. With this submission being due just 3 days later, I haven't had much time to experiment with the software stack. Additionally, with the NUS Makerthon 2020 finale coming up on the 6th of January, I won't be able to focus entirely on this assignment till then.

2.2   Inexperience

I have never done any sort of web development before. With no prior knowledge of the software stack being used, this assignment proves to be quite the challenge. While the final product might not be the most polished in terms of design and code convention, I'm confident that I will be able to have a working final product by the final submission.

3   Moving Forward

As of now, I'm still figuring out how the various components of the software stack work together. Particularly, I'm trying to design the project such that Rails is being used as a JSON API endpoint with React reading the data from it, as suggested. While I have no clear timeline on the progress of the project, I hope to be able to finalise the product earlier so as to have the time to write out a detailed user guide.