

Name: Chan Yew Whye Ernest
Matric Number: A0214560N

Functionality & Use Cases

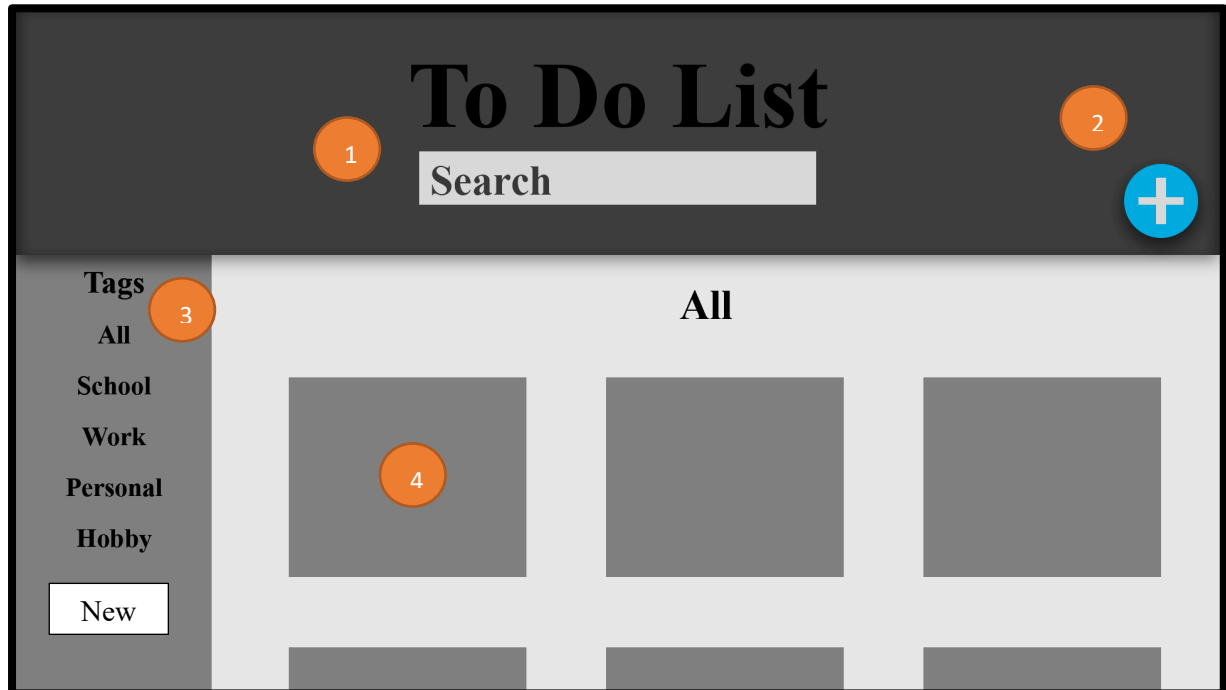


Figure 1: Example layout of application

In my application, I plan to include the basic CRUD functionalities to manipulate tasks and tags. Listed below are the components of my application:

1. Search Bar

Used to search for the title of different tasks

2. New Task Button

A user will be able press this button and will link to a form to create a new task. The user can then input the various information listed below (4) as well as select which tag to list the task under.

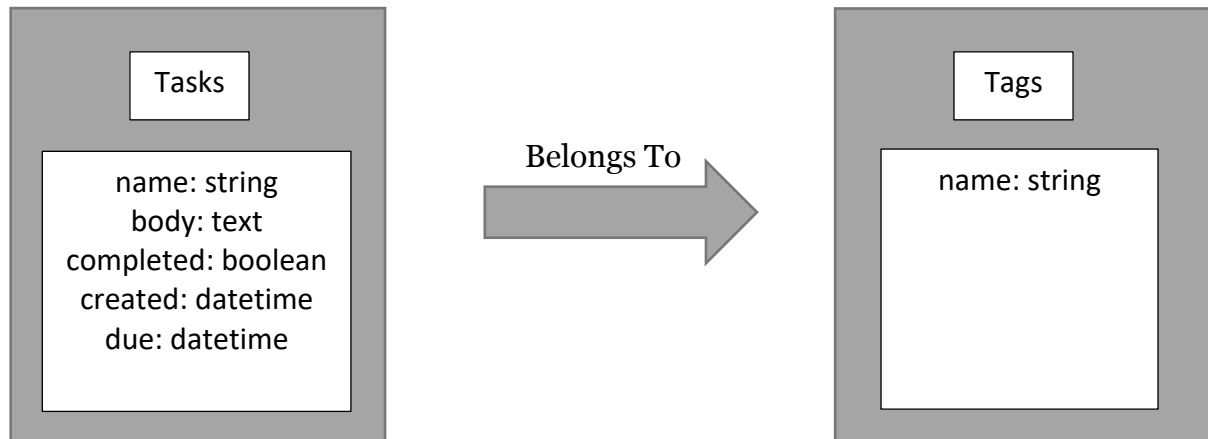
3. Tags

Users are able to create and tag tasks with various tags. The user can then select the tags to view all tasks associated with that particular tag. Tags can also be used to show urgency (e.g., An urgent tag can be created and tasks with this tag are displayed first).

4. Tasks

A task component which would include a title, a description, the date on which the task was created, a date on which the task is due, and an indication if the task has been completed. Completed tasks will have a different color or be crossed out. When selecting a task, the user will be able to update the task with new information.

Execution Plan



Back-End (Rails):

My application would be built using rails. Above are the models which I intend to use in my application.

Front-End (React):

I will use React components with material UI for styling.

Suggestions

1. Rails Installation

Getting rails up and running was a hassle as the default rails guide did not provide enough information to adequately get me started. The installation guide by GoRails was much easier to follow although there were still some problems encountered which had to be solved by googling. I recommend CVWO organize a small optional workshop to help students set up rails and perhaps go through the basics.

2. Examples

Having to learn HTML, CSS, JS, React, Rails in such a short amount of time can be daunting for some. There is added complexity when we need to mix react and rails together. I suggest creating a sample repository of example applications for students to see and or suggested videos and materials before letting students explore on their own.