

This application is a to-do manager that keeps track of tasks that you need to do, supporting basic CRUD (Create, Read, Update and Delete), organisation and search functionalities. This document details the accomplishments made during this assignment, as well as a short user manual.

During this assignment, the most obvious takeaway I have had is picking up new languages and skills. This assignment helped me develop an appreciation for server-side dynamic webpage building, as my experience with webpage building prior to this had only been a few static web pages that were hosted on Github. This was thus an interesting challenge for me, and my familiarity with languages such as HTML, JavaScript and CSS proved helpful in formatting the site. The actual functionality of the site, however, was far more difficult to implement. It required a substantial amount of time to learn both React and Ruby, and from there create a site from scratch.

This assignment had also helped me better understand the MVC design pattern. This was something that I had learnt in CS2103T, but have not had any actual exposure to. Through this assignment, I was able to learn how to properly build a project adhering to this design pattern and thus understand what each component should be responsible for, as well as how they should interact with each other. As such, I felt like I understood it better than I would have had I simply read and studied it.

This application supports basic CRUD functionalities, as well as being able to search for specific tasks, making use of JSON requests for each functionality. This is done through the *axios* library, a promise-based HTTP client that allows the application to consume RESTful API.

User Guide:

Getting started:

1. Clone the database from https://github.com/fyshhh/cvwo_assignment to a local repository.
2. Using a terminal emulator (such as Windows PowerShell for Windows systems or Terminal for macOS systems), navigate to the above repository.
3. Run the following commands; this will set up the application, and seed it with sample data.
 - bundle install
 - rails webpacker:install
 - rails webpacker:install:react
 - rails generate react:install
 - rake db:seed
4. Run rails server and visit <http://localhost:3000/>.

Functionalities

fysh's Task Manager

Tasks	CS2030S Recitation
<div><div>New Task</div><div><input type="text"/></div><div><div>Search</div><ul style="list-style-type: none">• 2021-01-22, 08:00PM - CS1101S Lecture• 2021-01-23, 08:00PM - CS2030S Recitation• 2021-01-23, 08:00PM - CS1101S Tutorial• 2021-01-24, 08:00PM - MA1101R Lecture• 2021-01-24, 08:00PM - CS2030S Lab• 2021-01-24, 08:00PM - CS1101S Recitation</div></div>	<div><div>EditDelete</div><div><ul style="list-style-type: none">• Description: 1 hour recitation• Date: 2021-01-23• Time: 08:00PM</div></div>
Task List	Task Information

Adding a task:

1. Click on the “New Task” button in the task list.
2. Enter the necessary information in *all fields*.
3. Click on the “Save” button once completed. An alert will be displayed on the right side of the screen upon the successful addition of a task.

Deleting a task:

1. Select a task from the task list.
2. Click on the “Delete” button in the task information.
3. When the confirmation request appears, click “OK”. An alert will be displayed on the right side of the screen upon the successful deletion of a task.

Editing a task:

1. Select a task from the task list.
2. Click on the “Edit” button in the task information.
3. Enter the necessary information in *all fields*.
4. Click on the “Save” button once completed. An alert will be displayed on the right side of the screen upon the successful amendment of a task.

Searching for a task:

1. Above the task list, enter the information to search for.
2. The task list will automatically filter the relevant tasks to display.