

## CVWO 2020 Final Submission

### 1. Finished product

I have submitted a simple to-do manager webapp. A user can create to-dos to form a to-do list. Each to-do can have a title, description, start date, end date and priority level. To-dos can also have multiple tags to help with categorisation and organisation. The to-dos in the to-do list can be sorted according to start and end dates in both ascending and descending order. To-dos can also be filtered by their tags. Once completed, each to-do can be marked as complete and they will be removed from the list, but are not deleted. Users can view completed to-dos if they want to. Each to-do can also contain more sub-to-dos for further organisation and categorisation of to-dos.

### 2. Learning rails, react

For this project, I had to pick up a new language (ruby) and frameworks (rails, react) that I have never used before. I learned from the many tutorials, documentation, and articles that there are many ways to implement any particular feature. I also learned not to blindly follow tutorials as I need to consider how it would be able to integrate with existing code that I already have.

### 3. Using third party libraries

I used third party libraries to implement some features, such as a date/time picker. I gained some experience in looking for and reading documentation for third party libraries. I experienced some difficulties in integrating them into my project due to the lack of a clear tutorial and had to instead figure out how to integrate it into my own code myself.

### 4. Learning web development concepts

I learned many concepts related to web development, most notably the model, view, controller (MVC) design pattern, what the backend and frontend of a webapp is supposed to do, hosting a webapp on a server, how to create an API service. I also learned a bit about databases and SQL.

### 5. Version control with git

I learned to make use of git as a version control system to keep track of and manage the changes I made to my project. However, I only performed basic tasks like committing and pushing new changes. I did not have to create and merge branches or resolve merge conflicts as I was the only one working on the project. I hope to be able to gain more experience in using version control in a project where more people are working on it.

### 6. Incomplete Features

I was unable to complete multi user support. Users are able to login and sign up for accounts, but there is no real distinction between accounts and users are always shown the same to-dos regardless of the account used to login.

# User Manual

## 1. To-do List

To Do List

Lets get things done...

New To Do

Sort By: Date Updated ▾

Sort Ascending

Filter By Tag: All ▾

Show Subtasks

Show Completed

Log Out

Hdkskf

Baldhd

Due on: 2020-01-27 09:07:57

View Complete

Lajbd

Jwjeb

Due on: 2020-01-27 09:08:19

View Complete

### a. Sidebar

- New To Do: Create a new to-do
- Sort By: Select criteria to sort to-dos
- Sort: Sort by Ascending or Descending order
- Filter By Tag: Show only to-dos that contain the tag
- Show Subtasks: Shows subtasks in the to-do list
- Show Completed: Shows tasks marked as completed

### b. To-Dos

- View: View more details about the to-do
- Complete/Undo Complete: Mark to-do as completed/not completed

## 2. Create To Do

### Add a To Do:

Title

Description

Start Date

08 Feb 2020 08:56 PM

Due Date

08 Feb 2020 08:56 PM

Priority

Low

Medium

High

Tags

Add Tag

Done

Back to To Do List

- a. Title: Add a title for the to-do
- b. Description: Add a description for the to-do
- c. Start Date: Select starting date/time for the to-do
- d. Due Date: Select due date/time for the to-do
- e. Priority: Assign priority level to to-do
- f. Tags: Add tag to to-do