

CVWO Mid-Assignment Write-up

Shirley Ow
A0187396J

Having developed a web-application for Orbital last summer, the experience sparked my interest for web-development, which is also part of the reason why I have decided to apply for CVWO.

This is my first time picking up Ruby and Rails (previously I used mostly AngularJS/JavaScript, PHP and CSS for Orbital). I have dedicated half of my December to learning web development using Ruby on Rails. I am done with the Ruby tutorials and halfway through the Rails Guide. I will further catch up on the remaining areas in January and hopefully produce a satisfactory final application.

Basic Use Cases

- Listing tasks
 - Each task consists of title, description and a deadline. Each task can also be associated with tag(s).
 - For each task, CRUD operations can be performed.
- Adding tasks
 - Other than the title, the other fields are optional.
- Deleting tasks
 - Tasks marked as complete are archived.
 - Tasks can also be deleted.
- Updating tasks
 - After tasks are created, all attributes can associated to the task can still be modified.
- Searching and sorting tasks
 - Search by title, description, tag(s) and/or deadline.
 - Sort by deadline or by latest.

Execution Plan

- Backend code will be written in Ruby on Rails and frontend code will be written in React as required.
- The end product will be hosted on Heroku if time permits.

Some tentative steps:

- Create Rails application with Bootstrap
- Add routes, MVCs
- Add search functionality
 - Search by title/description
 - Search by tag(s)
 - Search by date range
- Add sort functionality
 - Sort by deadline
 - Sort by latest

- Add CSS
- Deploy to Heroku

Problems Faced

- I would say that this assignment entails a rather steep learning curve for me because I am a fresh beginner in Ruby, Rails and React. This is also my first time using a Linux distribution (Ubuntu). I am still trying to understand the concepts and the time limit is a constraint as well.