CVWO Assignment (Final Write Up)

# Deadlines (Task Manager App)

## Reflection

My CVWO Assignment had 2 distinct phases which spanned across the December holidays and a good part of January. These 2 phases were first learning the software and starting on the task manager project. Prior to the CVWO assignment, my experience with Web Development consisted of an average understanding of HTML, CSS, JavaScript, with minimal experience in React and Node.js, all of which I had picked up before I matriculated into NUS. I was excited to take on this assignment to challenge myself to refresh my web development content and learn a new software (Ruby on Rails) in the process.

I thoroughly enjoyed relearning much of the web development tools, as it has been a while since I had practiced them. Being unfamiliar with Ruby on Rails, it was thrilling learning a new language and software, and I was able to parallel much of the functionality between Ruby on Rails and my previously learnt backend software, Node.js. However, the concept of model, view, and controller was new to me, but I managed to understand how they work together to enable backend data to be served to the frontend and vice versa. My knowledge about React was also deepened through this project, such as learning about React Router to link different React pages together.

As with any project, I faced countless bugs from syntax errors to misuse of functions, which delayed progress in the project. However, it is through these errors, where I acquired the most knowledge and growth. For example, I learnt about the React.useEffect(), which aided me to make calls to the API before rendering it unto the page, to avoid a page with blank data. The biggest challenge for me was learning how to integrate React with Ruby on Rails. It took some time to be accustomed to React’s version of the view, as it was not as simple as putting a JSX file in the view folder. It relied on routing, which was a fresh concept to me. To some extent, I did enjoy facing these bugs and difficulties, as it urged me to examine and correct my understanding.

At this present moment, my project can execute the CRUD operations, but is not fully stylised and the categorical tagging system has not been implemented. Looking ahead, this project has provided me the initial push to overcome some learning inertia and has inspired me to continue experimenting the capabilities of Ruby on Rails, as well as React.

## Manual

* The Deadlines app can keep track of your task and dynamically count down the number of days before your task is due.
* The root page displays all the tasks that have been submitted.
* To input new tasks, there is an input area at the top of the page. It accepts a new title, description, due date of the task, estimated time needed for the task and subtasks which you can add.
* The displayed tasks can be deleted by pressing the “x” button on the top right of the task.
* The displayed tasks have the option to allow the task to be expanded on the bottom left. Pressing that button, will redirect you to a page where you can view and edit the information of the specific task.
* In the task editing page, you can alter the information of any part of the task. To confirm your update you can click the “Update” button which will redirect you back to the home page and display the updated task.