

## CVWO Final Submission Write-Up

( Kenny Hermawan / A0200758H )

*This looks easy.* That was my first thought after reading up the assignment description that was sent to me roughly 2 months ago. Little did I know just how frustrating, and rewarding, the process of building a simple to-do list could be.

As someone who had limited exposure to the world of web development, the assignment was difficult as I had to familiarize myself with several new languages and frameworks that were unlike anything that I have learned of beforehand. I encountered my first major obstacle while developing the “connection” between the back-end and front-end of my app. For the client-side of the app, I decided to build it completely with React components, meaning that the components had to read all the Rails data from a JSON API endpoint. This was especially difficult for me as I had no prior knowledge of networks, APIs, and how to fetch / request data from such things. In the end, I had to learn everything from a plethora of sources, mainly tutorials and documentations. While difficult and sometimes tedious, I thoroughly enjoyed the learning process as through it the (previously) mysterious and bewildering nature of networks and APIs started to slowly unravel itself.

I faced my second major obstacle when I started to dabble in the UI/UX aspect of the app. I chose to implement Twitter’s Bootstrap as the design framework upon which my app’s layout is going to be based on. Admittedly, the process of implementing Bootstrap and implementing its components (through HTML classes) was quite straightforward. The difficult part, however, is getting the app to look exactly how I wanted it to be. Never had I been so frustrated by something as simple as a text inside a button being slightly off-center, 1 pixel away from where it should be. However, as time went on, with the help of the Bootstrap documentation and countless Stack Overflow threads, I started to gain more intuitiveness and familiarity with the “inner-workings” of the framework. And thus, bit by bit, the feeling of frustration started to get replaced by that of satisfaction.

Overall, while the journey that is the CVWO 2020 assignment was difficult, it was an extremely rewarding one. Through the unending cycle of learning, failing, and debugging that I have gone through for the past 2 months, I can say with great certainty that I have become a better coder and a better learner.





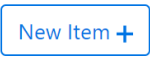



# CheckMark Task Management Application

## User Manual

- a) Upon accessing CheckMark, users will be redirected to a cover page. Click on



to continue to the main page of the app.

- b) The application consists of **categories**, each of which consists of **items**.
- c) In the main page, users can see the list of all categories that have been created.
- d) To add a new category, click on , after which, users will be prompted to enter and submit a title and description of the new category. A category title must consist of at least three characters.
- e) A category can be modified and deleted with  and , respectively.
- f) Click on  to view the category's details and open the list of all items in that category.
- g) To add a new item, click on , after which, users will be prompted to enter and submit the item's content. Note that the content must consist of at least three characters.
- h) Items can be completed by pressing , upon which, a confirmation box will pop up.
- i) An item's content can be edited with the  button.
- j) An item's details (content, date of creation, and date of last update) can be viewed by clicking on the  button.