

## **CVWO Final Assignment submission**

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Heroku link: <https://task-app-2021.herokuapp.com/>

### **What I feel about my accomplishments**

I am quite pleased with my work. Prior working on this assignment, I have zero experience working with both frontend and backend. I have not written a single line of HTML or CSS code and I do not have any experience working with backend development. This CVWO assignment is extremely beneficial and I genuinely learnt a lot from it. I am glad that I decided to take up this assignment and I would also like to take this time to thank my TA Hanming from CS1101s for constantly telling his tutorial group about how beneficial taking up this assignment is.

Firstly, through this assignment I managed to learn how to use React for frontend. Having not written any real-world application for JavaScript learnt from CS1101s, I find myself quite lost at the start. Despite a rough start, I have learnt to use popular libraries like Bootstrap and Material UI for frontend design and react Axios library to handle rails API request, response and error. This allowed me to understand how frontend interacts with the backend and how to design a responsive webpage. The knowledge gained will definitely help me in doing frontend design for my future web projects.

Secondly, I have learnt the principles of MVC (Model, View, Controller) framework. Since I have not done any backend before, when I first started ruby on rails, I was overwhelmed. But after really understanding and working with rails, it allowed me to understand what rails is doing behind the scenes like how model, view and controller interact with one another and I really learn to appreciate rails on parts such as how we can work with databases without knowing SQL.

Even though I am quite happy with my accomplishments, I am quite disappointed that I did not achieved everything that I wanted to do. I did not manage to add typescript, password recovery and, I feel my frontend design could have been better.

In conclusion, I feel that despite I did not achieve everything I set up to do initially, I am pleased with what I have learnt in such a short period of time. This assignment taught me how to make use of online resources, how to troubleshoot my program and the basics of frontend and backend development. I am really thankful that I have gotten this opportunity and I truly appreciate the resources provided in the pdf as they are very in-depth.

## **Short user manual**

### **Registration**

1. Going into website, users will see the login page. To register click on create account.
2. To register an account, users need provide email address, password and password confirmation. Once users have registered an account, they will be redirected to the login page to sign in.
3. Once users have signed in, they will be redirected to the home page.

### **Pages**

#### **Home page**

4. The home page contains a task list view on the left side (bottom for mobile view). It shows task for today on default and users can click to toggle between today, week and overdue by clicking on the blue words. Users can edit the records by pressing the pencil icon and users are able to change their task name, deadline, tags or mark task as completed. To edit tag field correctly, users should add a comma between different tags in the format of “tag1, tag2, tag3”.
5. Users can also delete records by clicking on the dustbin icon beside the pencil icon.
6. Users can also search for any columns on the top right corner of the task list. For example, users can search for title, tags etc. Users can sort any fields by clicking the field name, for instance by clicking on title, users can sort based on the title by ascending or descending order. Users can go to next page or previous page on the by clicking on the left and right button if they have more than 10 tasks.
7. On the right side (top for mobile view) there is a calendar. The calendar shows the start date and start time for the task. The default view is the month view, and users can click on the toggle button on the top right corner to change it between the month and the week view.

## **Task page**

8. From the home page, users can navigate to all tasks page via the navigation bar.
9. At the top of page, users can create a new task by inputting title, description, start date and deadline and tags. By default, the start date is filled with users' current date and time, but users can change it if they want to. Adding a tag is slightly more complicated, to add tags, click on the tags input, type a tag then press enter then a "bubble" with the tag name should be formed. Users can then delete their tag by clicking the red x button. To add another tag, simply repeat the steps as stated before. Users can click on submit once they are done and the task will be created.
10. At the middle to bottom of the page, it would be the task table. The default view is the not completed view. Users can toggle to a different view such as overdue or completed by clicking on the blue words.
11. Users can edit the record by clicking on the pencil icon. Users will be able to change the title, description, start time, deadline, completed time, tags, or mark task as completed. To edit tag field correctly, users should add a comma between different tags in the format of "tag1, tag2, tag3". Users can delete the record by clicking on the dustbin icon beside the pencil icon.
12. Users can search any fields by typing on the top right corner. Users can also sort any fields by clicking the field name, for instance by clicking on title, they can sort based on the title by ascending or descending order.
13. If users have more than 10 tasks, they can click on the arrow button below the table to go to the next page.

## **Sign out button**

14. By clicking on the sign out button on the navigation bar, users' session will be deleted, and they will be redirected to the login page.