

CVWO Final-Assignment

- Name: Tian Fang
- Matriculation Number: A0194568L
- Heroku link: <https://tian-fang-taskmanager.herokuapp.com>

What I have learned:

1. Ruby on rails:
Initially (before mid-assignment), I did not make use of React, which is not necessarily a bad thing since it has helped me to deepen my understanding of relational database, the relationships among Model, View and Controller, etc.
2. React
Compared to ruby on rails, React is easier to learn as there are more videos and tutorials about React on the Internet. However, the harder part is the integration of React and Rails. I still have more things to learn about the interaction between React and the relational database.
3. Bootstrap CSS library
In the assignment, I make use of Bootstrap's CSS to make the layout more pleasing to look at. The result is much better than what I originally designed using merely Ruby on Rails.
4. Problem-solving skills
During the process of writing the program, I have encountered problems that I cannot solve many times. Nevertheless, I eventually came up with solutions to deal with them. For instance, I could not properly retrieve tags associated with a task, I therefore chose to make tag a property of task, although it is not the ideal way. Such problems significantly improved my problem-solving skills, which will benefit me in the long run.

User Manual (can also be found in Read More on home page):

Just like other normal task management app, the Task Manager allows you to create new tasks and edit, view or delete existing tasks. If the due time has already passed, the task's color will change from grey to orange to remind you. Anytime when you want to go back to the home page, simply press the home bottom in the navigation bar. Moreover, you can check or uncheck tasks using the checkbox on the left side of every task. And the checked task will be crossed out. Last but not least, a tag system is introduced so that you can easily find tasks associated with a certain tag.

Hope you enjoy the Task Manager!

Things to be improved:

1. A deeper understanding of React and Rails

To be honest, there still much more I need to learn about React and Ruby on Rails. More knowledge about fundamental design will help me to avoid some low-level mistakes. For instance, initially, I did not know that creating a new date using strings like "1-1-2020" is not allowed ("01-01-2020" instead). Also, I only have a rough idea when and where should I use some tags, instead of systematic knowledge of all possible tags.

2. DRY principle

Some of my code did not follow the DRY principle, and some of my code can be more succinct. This is related to the first point. As I become more proficient with these tools, I should be able to write codes that are cleaner and more efficient.