

## CVWO First submission write up

### Task 1:

Description: Implement a todo manager to keep track of all the tasks that you have to do. As a start, your todo manager should be able to perform basic CRUD operations. CRUD is an acronym for Create, Read, Update and Delete. They are the basic functionality that your application should have.

Design: Todo items are created in the web application. Each todo item stands for a task. It allows users to perform Create, Read, Edit (Update), and Delete functions by clicking the icons next to the lists of todo items. When users want to delete a todo item, he or she has to click "Yes" for the confirmation pop-up window after clicking on the delete icon.

### Task 2:

Description: Implement a tagging system to organise your tasks so that they are easy to search for. Since we are all busy people, it is very likely that your todo manager would fill up fast. Hence, it is important to be able to organize your tasks and search through them.

Design: I have created the todo lists in the web application to organize the different types of todo items. Each todo list has a title and a description below describing the different types of todo items. In this way, all todo items are characterized into various types corresponding to different todo lists, such as study, entertainment, and so on. In each todo list, users can see the lists of todo items in each todo list for categorizing and organizing. As for the todo list, users can create, edit, and delete a todo list by clicking the icons and click "Yes" for the confirmation pop-up window.

### Additional feature:

I have also added a function to show the current data and time on the webpage when showing the todo lists. This makes it easier for users to keep up with what they are currently doing.

### Execution:

First, a model of todo item and a model of todo list are created. The corresponding database which is using sqlite3 is then created. Secondly, enable the Create, Read, Update, and Delete functions for both todo item and todo list in their corresponding controllers. Thirdly, create the corresponding buttons within the html files. Finally, use the CSS to finish the styling, and background.

### Problems encountered during the development period:

During the development of the web application, I have been self-learning the required tools as suggested in the Assignment, however, there are still some problems and concepts which I could not fully understand.

There are still some little bugs in the application which needs to be solved. For example, when the todo list is not empty, which means there are todo items in the todo list, the list cannot be deleted directly. A todo list can only be deleted when if it is empty.

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