Name: XIAOYAN (A0245626B)

# **CVWO Mid-Assignment Writeup**

#### **Basic introduction:**

Apart from building a common task management web application, I create a more specific Application scenario where users set their task to be "Word memory". While maintaining basic CRUD operations, those users who want to increase their vocabulary can also benefit.

Specifically for backend, I choose Ruby on Rails

#### **Use Cases:**

1. Users add a word to "My-words list"

Description: When users have a new word to remember, they can add it to their "My-words list"

**Detailed instructions:** 

- (1) Users select a tag from given list for this word(can be "None")
- (2) Users input a word in the textbox
- (3) Users click the "Add" button, and the word is successfully added
- 2. Users delete a word from "My-words list"

Description: When users have already remembered one word, they can remove it from their "My-words list"

Detailed instructions:

- (1) Users click the "Delete" button right after the word
- (2) Users click the "Confirm" button to confirm the delete in case they

accidentally press the "Delete" button.

## **3.** Users update a word from "My-words list"

Description: When users want to change an existing word, they can simply update the word or its tag.

- (1) Users click the "Update" button right after the word
- (2) Users select a new tag or change the word itself(both can be done)
- (3) Users click the "Confirm" button to confirm this update, otherwise it will not be saved

## **4.** Users search words based on taglist

Description: When users want to search for words, they can find them by inputting few letters inside this word.

- (1) Users input letters in given textbox(no need for clicking)
- (2) After the change in textbox, "My-words list" will automatically display those words which contain the letters and with the same tag in filter

## 5. Users filter words based on taglist

Description: When users want those words with specific tags, they can find them by selecting a certain tag.

- (1) Users select a tag from taglist
- (2) "My-words list" will automatically display those words with same tag

## <u> Plan :</u>

Firstly, I will focus only on React to equip myself with basic frontend skills

and to refine the frontend work. These include basic CRUD operations, searching system and tag system.

Then, by self-learning some extensions like CSS and bootstrap, I'll make the whole website more user-friendly

After that, I'll install Ruby on Rails as the backend of this web application and set up React on Rails to test the work done by React.

After the testing, I'll move on to connect the application with a database to better store the data. Specifically for this project, I'll use SQLite.

After the connection, I'll use the database that has been created to further polish my frontend work to introduce a more powerful search system to connect tag system and basic searching system and I'll add "Add and Delete tag" system to further meet users' needs.(done already) Finally, the above plan may not be complete, so I'll further update it during the work and try best to accomplish an excellent work.

## **Potential problem:**

Since React as well as Ruby on Rails are both new to me, besides doing all the work by myself, self-learning from some tutorials and courses are inevitable, the skills and knowledge I learn may not be enough to complete my whole plan.

# **About Wireframe:**

I put my Wireframe of the web application in git repo submitted together.