

CVWO Final Submission Write-up

Name: Shirley Ow

Matriculation Number: A0187396J

Heroku link: <https://shirleyow-todolist.herokuapp.com/>

GitHub link: https://github.com/shirleyow/to_do

What I feel about my accomplishments in this assignment

Being a newbie in Ruby on Rails and ReactJS, I am glad that I was able to build a To-Do List website from scratch and deploy it successfully on the Internet. It was a rewarding experience for me because I think that the building of a To-Do List is one of the fundamental things people do to get started on web development.

During this period of time, I have been googling extensively to resolve various problems or confusions I had along the way. Through this project, I've gained more experience coding with ReactJS on the frontend, and with Ruby on Rails and PostgreSQL on the backend. I was also able to better understand the concepts behind MVCs and RESTful APIs (which I wasn't sure about earlier).

Regarding the user interface of the website, I did some basic user acceptance testing with my family and friends, and improved/added in some of the features they've recommended (e.g. the 'Mark as important' feature). I've found such feedback to be very useful because you get to hear opinions from different people, who may prefer their to-do lists to have different features.

Overall, I feel that working on this project has been meaningful. Admittedly, there is still a lot in web-development that I have yet to explore in, and the website is far from perfect. However, I hope to be able to continue learning more through the CVWO program.

Short User Manual

Welcome Page

- This page serves as a short introduction to the application.
- Click the "View Tasks" button to be brought to the tasks page.

Tasks Page

- Here, you can see today's day and date displayed in the header of the page.
- 3 sample default tasks would have been created for every new user, consisting of 2 ongoing tasks and 1 completed task.
- On this page, you can search for tasks via Title/Description, via Tag(s) and via Deadline. To change the mode of searching, press the corresponding tabs above the search bar.
 - When searching for a task via Title/Description (default),
 - tasks are filtered based on the input string (a task is shown as long as the input string is a substring of the task's title/description).
 - When searching for a task via Tag(s),
 - a user can type the name of the tag and press enter when the correct suggestion is highlighted (autocompleted), or the user can scroll through the tags in the dropdown and click the one desired.
 - Multiple tags can be selected at the same time to filter for tasks tagged with all of the selected tags.
 - To remove a tag, the user can press the "x" next to each tag in the search bar, or press backspace to manually remove the tag.
 - Tasks without any tags will automatically be hidden when the search mode is via Tag(s).
 - When searching for a task via Deadline,
 - 2 calendars of this month and the next month will appear once the search bar field is clicked, and the user will be able to press a start date and an end date to search for tasks with deadlines in the selected time period.
 - Users can also navigate to the other months they desire.
 - Users can select the same date as the start and end date to search for tasks with deadlines on a particular date.
 - The selected time period is conveniently highlighted in light blue, and today's date is highlighted in orange, to make the process more user-friendly.
 - Another way of inputting the time period is to manually type it out in the search bar in the format of: mm/dd/yyyy – mm/dd/yyyy.
 - Tasks without a deadline will automatically be hidden when the search mode is via Deadline.
- In addition, you can sort the tasks on this page as well, by "Latest", by "Deadline" and by "Importance".
 - Sorting the tasks by "Latest" will sort them by their last modified time (default).

- Sorting the tasks by “Deadline” will sort them by their deadlines in an ascending order, and tasks without deadlines will be at the bottom.
- Sorting the tasks by “Importance” will sort them by their importance, and then by their deadlines. The tasks marked as important will be top in the rank, and all tasks will then be sorted by their deadlines in an ascending order.
- Each task is displayed within a Bootstrap container, with its description, deadline and tags, if they are present.
 - Click on the empty circle (checked circle) beside the task to mark it as completed (incomplete).
 - Click on the empty star (filled star) at the top-right hand corner of the container to mark the task as important (unimportant).
 - Click on the ‘Edit’ icon to edit the task.
 - Click on the ‘Trash’ icon to delete the task.
 - The number of days the task will be due in (or is overdue for) will be displayed for each task. The message is colour-coded.
 - If the task is due today, “Due today” will be displayed below the task in orange.
 - If the task is overdue, “Overdue for x days (or day if x == 1)” in red will be displayed.
 - If the task is due in ≤ 7 days, “Due in x days (or day if x == 1)” in green will be displayed.
 - If the task is due in >7 days, “Due in x days” in dark green will be displayed.
- You can toggle between ongoing tasks and completed tasks using the slider button below the search bar.
- The number of ongoing tasks/completed tasks will be displayed above the tasks.

New Task/Edit Task Page

- A simple Add Task/Edit Task form with the task title being the only required field.
- Tags are added with each tag separated by a comma.
- Fields are pre-filled with the existing values in the Edit Task page.
- After each task being added/being edited, the user will be redirected to the tasks page. An alert-success message will be displayed if the task was added/saved successfully.