

CVWO Mid-Assignment Write-Up

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[Links: [Website](#) , [GitHub Repo](#)]

Basic Use Cases

- User Authentication
 - Allow Signup and Login of multiple users
 - Password for each user stored using hashing (bcrypt/argon2)
 - Validation and Error handling of input fields for example username needs to be unique
- The To-do List
 - Every user has a separate To-do List
 - CRUD (Create, Read, Update, Delete) operations for a Task in the To-do List
 - Add tags to the Task and search Tasks based on their tags
 - Option to add a deadline to a task and sort the Tasks based on the deadline
- Calendar
 - A calendar which will be able to display the Tasks based on their deadline
 - User should be able to add a task via the calendar
 - Reminder for incomplete Tasks on the day of the deadline

Execution Plan

Initially worked on two separate side projects to learn React and Ruby on rails respectively following tutorials. The To-do List project will have a complete React based fronted and RESTful API will be used to access JSON data from the Rails backend.

1. Implement CRUD operations for Tasks in the To-do List **[Completed]**
2. Tagging of the tasks
 - a. Create, Read, Update and Delete a tag **[Completed]**
 - b. Search tasks with the same tag **[Completed]**
 - c. Allow multiple tags for a task
3. Allow separate To-do List for different Users
 - a. Signup, Login and Logout for users **[Completed]**
4. Implement a Calendar to display Tasks as per deadline
 - a. Option to add deadline to tasks
 - b. Display the tasks on the calendar based on their deadlines
 - c. Create Reminders for user for a task based on the deadline
5. Rearranging of Tasks on the To-do list
 - a. Sort Tasks based on their deadline or title
 - b. Change order of the Tasks displayed on the List
6. Validations of Input
 - a. For username and password while creating a new user **[Completed]**
 - b. For Tasks, a Task should not be empty **[Completed]**