

CVWO Mid-Assignment Submission

Farrel Dwireswara Salim - A0236449W

Link to GitHub Repository: <https://github.com/sugiyem/ToDo-List>

Use cases:

1. User creation: users need to sign up using their email to use this app. This will help them to keep track of their to-do list regardless of the device used.

142.8 ms × 2

Todo List Sign Up Sign In

Sign up

Email

Password (6 characters minimum)

New Password

Password confirmation

Confirm Password

[Log in](#)

2. To-do list: users will see their to-do list in a form of table. There will be a button which will help them to edit, delete, or create a task. Additionally, this table will be sorted by its status (whether the task is finished or not) and its deadline.

249.8 ms × 3

Tasks

[Advanced Search](#)

Task name	Tag	Status	Deadline			
Bugis with friends	Personal	✗	December 27th, 2021 16:00	Show	Edit	Destroy
PINUS Meeting	CCA	✗	December 29th, 2021 22:00	Show	Edit	Destroy
CVWO Mid-Assignment	Assignment	✗	December 31st, 2021 20:00	Show	Edit	Destroy
CVWO Final Assignment	Assignment	✗	January 25th, 2022 20:00	Show	Edit	Destroy
Far From Home	Hobby	✓	December 23rd, 2021 16:00	Show	Edit	Destroy
Mushoku Tensei S2	Hobby	✓	December 26th, 2021 18:00	Show	Edit	Destroy

New Task

3. Search bar: users can search a task with a specific name using the search bar on top of the to-do list table. Additionally, this search bar is case insensitive as shown in the figure below.

171.4 ms

Todo List Show Tasks Sign Out Edit Profile

Tasks

cvwo search

Advanced Search

Task name	Tag	Status	Deadline			
CVWO Mid-Assignment	Assignment	✕	December 31st, 2021 20:00	Show	Edit	Destroy
CVWO Final Assignment	Assignment	✕	January 25th, 2022 20:00	Show	Edit	Destroy

New Task

4. Advanced Search: If the basic search bar is not enough, users can use the advanced search. This advanced search can help users to find a task with a specific name, tag, deadline, and status.

391.2 ms x3

Advanced Search

Task name
Task Name

Tag
▼

Minimum deadline
▼ : ▼ — ▼ : ▼

Maximum deadline
▼ : ▼ — ▼ : ▼

Status
▼

Search

Execution plan:

I'm planning to deploy this app using react & typescript for its front-end. For its back-end, I'm planning to use ruby on rails with postgresql for database.

Additionally, this app will also be styled using Bootstrap for more convenient user experience. For the past month, I have learned react, ruby on rails, and postgresql from various websites.

Currently, the todo list with all the explained specifications can be run in localhost. The source code is available in the GitHub repository. However, the front-end is still written in html and ruby instead of react. By next month, I hope that I will have finished changing the front-end to react with typescript and deploying the app at Heroku. If there is additional time, I will also try to add redux to my application.