

# CVWO Writeup

## What I've learned from the CVWO assignment

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### 1. Rails asset pipeline

The rails asset pipeline was particularly interesting. I found out that it was used to bundle multiple CSS and JS files into a single CSS and JS file for fast serving.

### 2. My love for Rails

This is not so much technical, but I have a new found love for Rails, because of how simple and fast it is to get a CRUD app up and running, although that may come at cost of following certain conventions that are not suited for every use case (e.g. auto increment id as PK for every database relation).

### 3. Addressing the shortcomings of ORMs

How to prevent N+1 problem with ActiveRecord by using the joins and includes method to eager load nested attributes.

## How I felt about my accomplishments

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Overall, I am very whelmed by the Todo app I've built. I've gotten more familiar with the MVC architecture, database migrations, and the ActiveRecord ORM.

## User manual

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### Navbar

The navbar is used for navigating through the different pages (Home, Task, Tags, Login, Sign up)

### Homepage

The Home page does nothing.

### Tasks

`/tasks/`

The task index page lists the tasks the user created.

`/tasks/new/`

The new task page allows the user to create tasks alongside the tags (categories) associated with it. Tags cannot be created by themselves.

`/tasks/edit/:id/` and `delete`

The edit and delete buttons in the `index` page allow for editing and deletion of tasks respectively.

## Tags

`/tags/`

The tags page lists the tags that are created and the tasks that have that specific tag. The task title links to the `edit` page for that task.

Tags cannot be edited or deleted. This is to prevent a user from changing a tag name of another user's tasks.

## Login and signup

Login page and sign up page are self explanatory.