CVWO Assignment Write-up

Task

To build a To-do manager website using Ruby on Rails, with React as frontend platform.

Features and implementations

Features	Descriptions	Implementations	
Basics			
Homepage	Introduction of the website and a 'view lists' button that directs to '/todo_lists#index'	Under the rails project called 'todo', generate a Homepage controller. Use React to write (under javascript folder) a 'Home' component. Link view to index.jsx under javascript/package.	
CRUD – Todo list	The view page of todo lists will allow users to create, read, edit and delete todo lists. Each todo list has a title.	Generate a todo_lists controller with basic curd function.	
CRUD – Todo item	On clicking the title of each todo list shown on homepage, users will enter the url of that todo list and be able to create todo items inside the list. Each todo item has a title, a description, and a checkbox. The page is separated into two main components: Pending and Completed. Completed items will appear at the bottom of the page.	Generate a todo_items controller with reference to todo_lists. Edit frontend code to add links to todo list titles.	
Due date	Users can select or enter due date in a todo item.	Initialize todo_items controller with an additional column.	
Tagging	Saved to-do items can be searched by their tags.	Create a tagging model. Associate the tagging model with todo model.	

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Empty input error	If the title of a todo item is empty, users will not be able to save to item and an error message will pop up.	Add some validations to models.	
Registration	Users should be able to register and log in to the website, so that they can access to-do items saved before when they reenter the website.	With the use of ruby gems such as divise, show data only related to user. (If needed, generate a user model?)	
Cron	Set up cron job to backup database.	-	
Typescript	Implement typescript in React files.	Adding TypeScript Create React App (create-react-app.dev)	
Hosting	The website should be accessible to the public.	Getting Started on Heroku with Rails 6.x Heroku Dev Center	
If have time			
Listing	The view page may allow users to choose from two options of layout: 'show all' and 'show list'. 'Show all' lists out all todo items, regardless of which list they are in.		