

CVWO Final Assignment Writeup

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Application Link: <https://todo-list-frontend-react.herokuapp.com/>

Thoughts and Reflection:

Starting and finishing this project has been a very interesting and beneficial experience for me. As mentioned in the mid-assignment writeup, I had next to zero knowledge about web dev before starting this. Though the end product ended up being a very simple app with a lot of areas to be improved on, overall I am still quite satisfied with how much I learnt.

Challenges:

While mostly everything was new to me, there were some challenges I ran into that were particularly frustrating. Firstly, trying to run ruby on rails on windows was just disastrous. For my first few attempts installing and running rails locally on windows, every rails command I tried running crashed and returned errors. To resolve this issue, I ended up installing and running rails on WSL instead.

Aside from the initial difficulties with setting up rails, there were not many other issues I really struggled with. Styling was challenging since css and material-ui were new to me. Designing UI/UX elements was rather difficult and there were also issues with aligning components and elements.

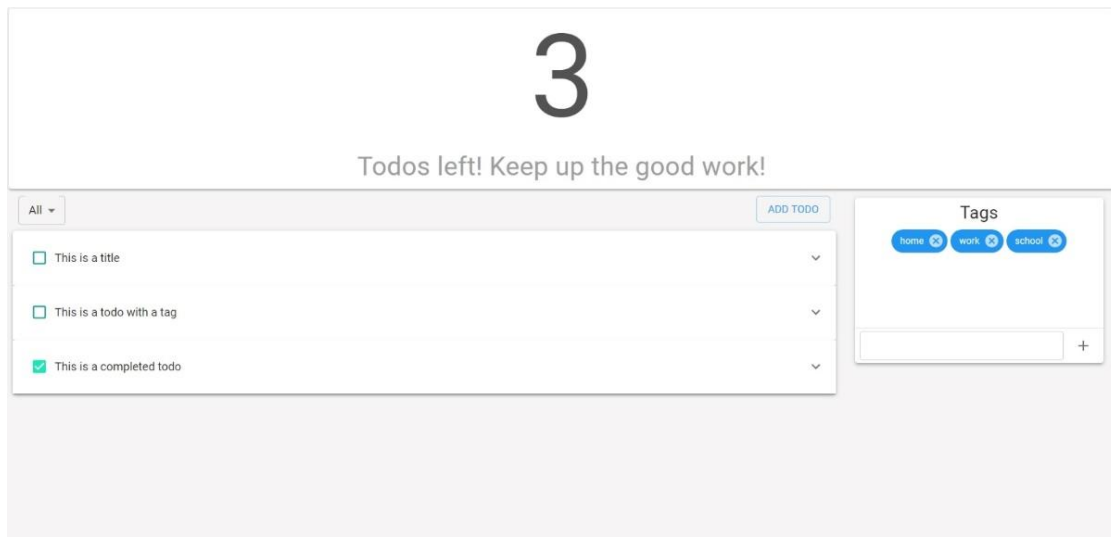
The last major issue I ran into was typescript and react. Though I was new to typescript, typescript itself was not difficult. However, typescript in react was really problematic. I ended up spending hours debugging various issues related to the types of react components and events. On hindsight, I really should have read more and better familiarize myself with typescript and also the other tools/tech I used before starting the project.

Areas of improvement:

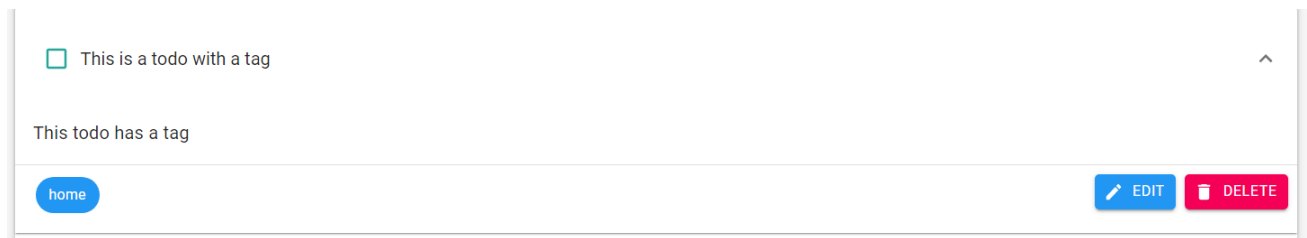
- User authentication
- Loading animation while fetching data (especially when first loading the page)
- Implement extra functionalities (as per the list in the mid-assignment writeup)

User Manual:

Overview: This is a screenshot of the actual app



Clicking upon a specific todo expands it to show more details. Note the description in the middle, and the list of tags on the bottom left corner. In this case, this todo has only a “home” tag.



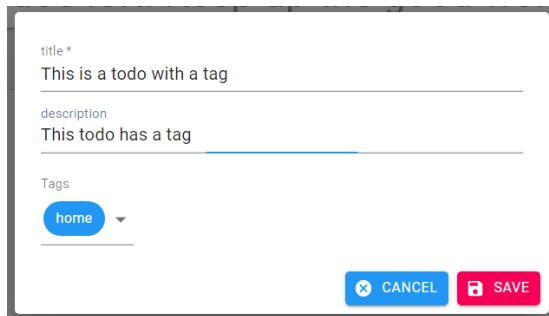
Clicking the checkboxes toggle the completion status of the todos

☒ This is a completed todo

Add todo: Click on the add todo button just left of the tags section and fill in the fields accordingly

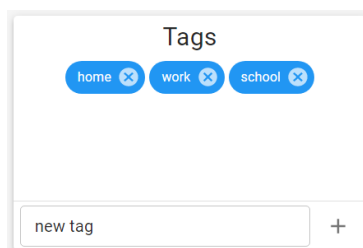
A form for adding a new todo item. It has three input fields: 'title *', 'description', and 'Tags'. At the bottom right, there are two buttons: a blue 'CANCEL' button and a red 'SAVE' button.

Edit todo: Similar to adding a todo, simply change the fields accordingly



A form for editing a todo item. It has three input fields: 'title *' with the value 'This is a todo with a tag', 'description' with the value 'This todo has a tag', and 'Tags' with a dropdown menu showing 'home'. At the bottom right are two buttons: 'CANCEL' (blue with a close icon) and 'SAVE' (red with a save icon).

Add tags: Simply type into the text field and click the “+” button to the right

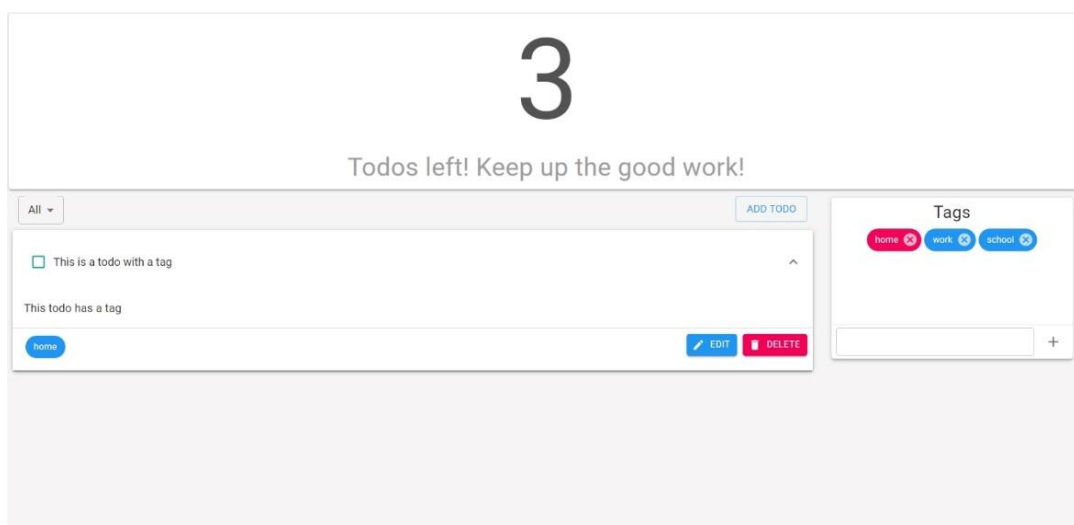


A form for adding tags. It has a title 'Tags' and three existing tags: 'home', 'work', and 'school', each in a blue pill with a close icon. Below is a text input field with the placeholder 'new tag' and a '+' button to its right.

Delete tag: Simply click on the “x” besides the name of the tag



Filtering todos based on tags: Click on a tag in the tags section. This changes the tag's color to red and filters the list of todos to show todos with the corresponding tags. We can also filter for multiple tags at once too.



The main app interface. At the top is a large number '3' and the text 'Todos left! Keep up the good work!'. Below is a list of todos. The first todo is 'This is a todo with a tag' with a checkbox and a tag 'home'. To the right is a 'Tags' section with three tags: 'home' (red), 'work' (blue), and 'school' (blue). Below the tags is a text input field and a '+' button. At the bottom right are two buttons: 'EDIT' (blue with a pencil icon) and 'DELETE' (red with a delete icon).