

## **Final Write Up**

### **1. Reflection**

After weeks of coding and searching through Stack Overflow for error solutions, I am proud to say that I have managed to build a functioning Task Management Application. Through the process of building this application, I have learnt how different programming languages work together in order make a simple button click execute complex tasks in the backend.

Over the past 2 months, I have continuously modified and refactor my code. My first challenge was to split up my code into components to improve the performance my application (at first all my pages react code were in a single massive file with no components). After that the next challenge was to refactor my code into typescript. This massive leap into typescript strict mode broke my application. I had to specify the types of all my react hooks, react events, variables. Although it was tiring, I managed to observe first-hand the power of typescript in picking up errors even before compilation.

Overall, the experiences I gained from building this application have developed my coding skills, improved my patience, and taught me how to read errors and identify bugs quicker. Regardless of my CVWO application outcome, I am glad that I have spent my holidays wisely by attempting this assignment.

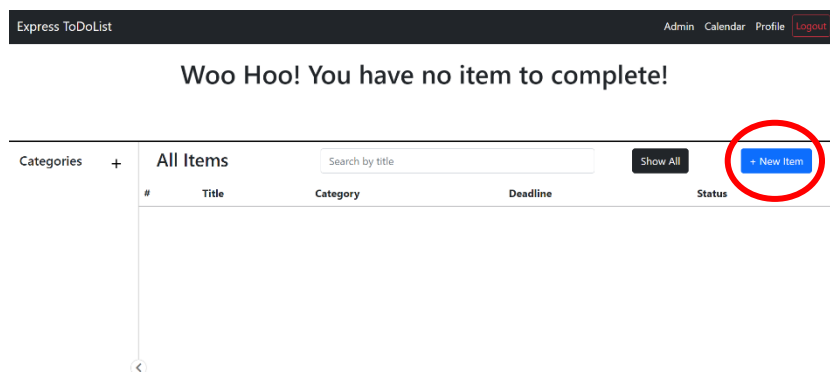
### **2. Update of plan from mid-assignment submission**

1. Instead of using React JS, I managed to refactor my code such that it is now React with typescript.
2. I added a calendar page and profile page to improve user experience.

### **3. User Manual for Task Management Application (After account creation)**

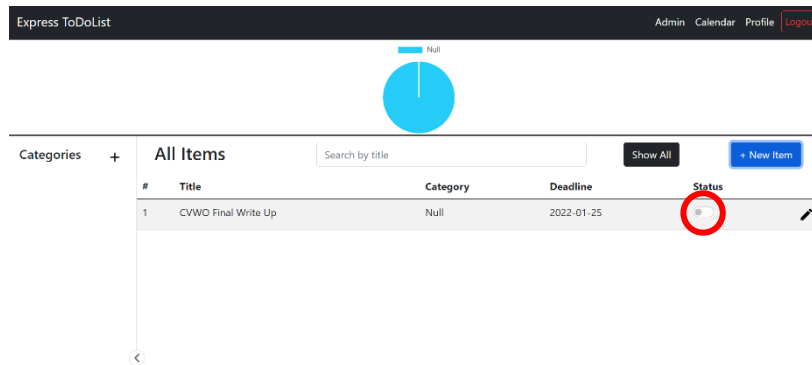
#### **1. How do I add an Item?**

Click the new item button circled in red as shown below. A modal would appear. Just fill up the item details inputs on the modal and submit it using the Add item button.



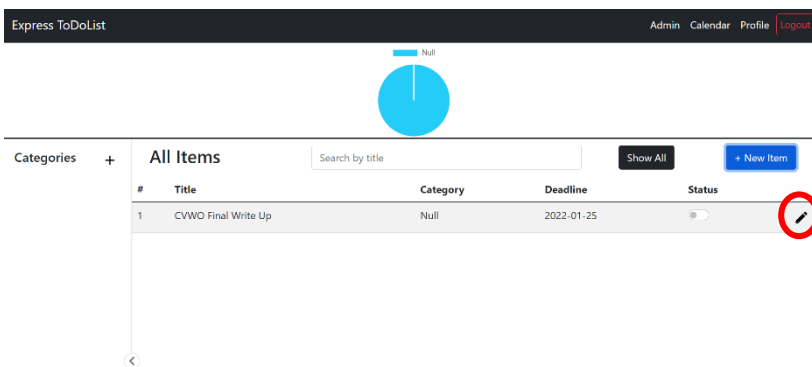
## 2. How do I delete an Item?

Click the button under the status column circled in red as shown below. The item would then disappear from the list.



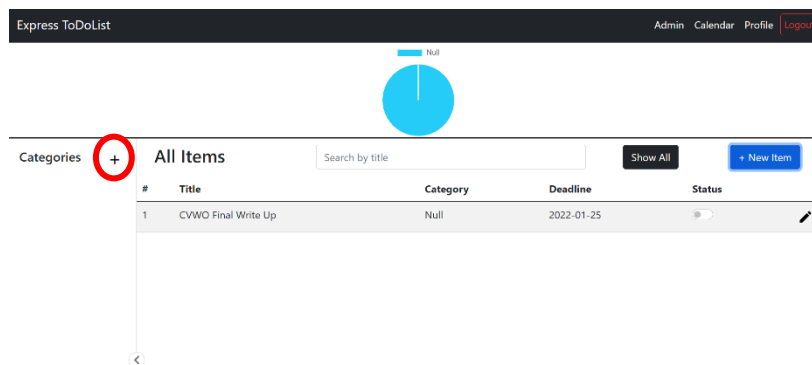
## 3. How do I edit an existing List Item?

Click the edit icon circled in red as shown below. A modal similar to the add item modal would appear with all the item details filled up. Just edit the item details and submit it using the Edit Item button.



## 4. How do I add a Category?

Click the “+” button circled in red in the photo below. A modal would appear. Just type in the category you wish to add and click the Add category button.



## 5. How do I filter the Items shown based on the Category I want?

Click on the category name that you want on the sidebar as circled in red below. The list would now only show items from the selected category. To show all items, regardless of category click the show all button circled in red below.

The screenshot shows the Express ToDoList application interface. At the top, there is a navigation bar with 'Express ToDoList' on the left and 'Admin', 'Calendar', 'Profile', and 'Logout' on the right. Below the navigation bar is a pie chart showing the distribution of items by category: 'Null' (blue) and 'Academics' (red). The main content area is divided into two sections. On the left, there is a sidebar with a 'Categories' section containing a '+' icon and a list of categories. The 'Academics' category is selected and circled in red. On the right, there is a table titled 'Academics' with columns: '#', 'Title', 'Category', 'Deadline', and 'Status'. The table contains one item with ID 1, Title 'CS2040S PS1', Category 'Academics', Deadline '2022-01-17', and Status 'On'. A 'Show All' button is circled in red in the top right corner of the table area.

## 6. How do I change my account details?

Click on the profile button at the navigation bar and it would redirect you to the page as shown below. Just edit your account details and click the “Change Account Details” button as circle in red below.

The screenshot shows the Express ToDoList application interface. At the top, there is a navigation bar with 'Express ToDoList' on the left and 'Admin', 'Dashboard', 'Calendar', and 'Logout' on the right. Below the navigation bar is a profile icon. The main content area is titled 'Edit Account Details'. It contains four input fields: 'Username' (with value 'Admin'), 'Email address' (with value 'admin@test.com'), 'New Password', and 'Confirm New Password'. A 'Change Account details' button is circled in red at the bottom of the form.

## 7. How do I view my Items on a Calendar?

Click on the Calendar button at the navigation bar and it would redirect you to a page as shown below. Items with non-null deadline would show up on the calendar at its respective deadline date. You can click any of the dates on the calendar to add, modify or delete items.

The screenshot shows the Express ToDoList application interface. At the top, there is a navigation bar with 'Express ToDoList' on the left and 'Admin', 'Dashboard', 'Profile', and 'Logout' on the right. Below the navigation bar is a calendar view for January 2022. The calendar shows dates from 27 to 31. The date 16 is highlighted in yellow. The date 17 has a red dot and the text '1 Task Due'. The date 25 has a red dot and the text '1 Task Due'. The date 29 has a red dot. The date 30 has a red dot.