

SFWRTECH 4WP3 – Advanced Web Programming - Assignment #8

Weight

4% of total course grade

Due date

Wednesday March 30th at 11:59pm

Primary learning objectives

- Create an application with ReactJS
- Use React Router to create a Single Page Application

Requirements

Create a Single Page Application with ReactJS and ReactRouter.

Your application should have a navigation bar with four links: Home, TODO, Contact and About. Clicking on each link should bring up a “different page” of content (i.e. the body of the page should change, but the navigation bar should remain the same). In the case of the Home, Contact and About pages, the content can be whatever you like so long as it is unique for each page (e.g. “this is the home page”). The URL should change to reflect which “page” the user is viewing. The navigation link in the navigation bar should highlight the currently selected page via a CSS change (either the colour of the link, or the background colour of the link, etc.).

The TODO page should present the user with a “to do” list. The to do list can either be a list (ordered or unordered) or a table format, or even some other format, so long as it is a vertical list of items. The to do list should initially have a few items present that you have hardcoded into your solution (“walk the dog”, “pick up laundry”).

Above the to do list you should have a form with an input text box and a submit button with the text “add”. When the user enters a new item into the input text box and clicks on add, the new item should be inserted into the to do list, and the input text box should be set to blank.

Each item in the to do list should have a delete link either to the left or the right of the item (maybe the text “D” or a delete icon, it’s up to you). When the user clicks on the delete link, the item should be removed from the to do list.

Each item in the to do list should have an edit link either to the left or the right of the item (maybe the text “E” or an edit icon, it’s up to you). When the user clicks on the edit link, the item text should be put into the input text box and the form button text should become “edit”. The user should be able to modify the text in the input text box and click on the “edit” button. After clicking the “edit” button, the item in the list should be updated to reflect the modified text in the input text box, and the form should return to contain a blank input text box and an “add” button.

Submission

Use create-react-app to create your solution. Delete the node_modules folder before submitting your work, but keep all the other files, including the package.json file. Zip your solution as assignment8.zip and upload it to the dropbox on Avenue.

Marking rubric

Component	Description	Marks
SPA links	Links to each page function as required	/10
SPA URL	URL is modified with each page	/10
TODO list	Items listed	/20
TODO add	Items can be added	/20
TODO delete	Items can be deleted	/20
TODO edit	Items can be edited	/20
Total:		/100