Batch #20 / Front-End Class

Remote Learning Assignment - Week 4

Assignment 1: Callback Function

Complete the function below to show a delayed result in the console.

```
function delayedResult(n1, n2, delayTime, callback) {
    // your code here
}
delayedResult(4, 5, 3000, function(result) {
    console.log(result);
}); // 9 (4+5) will be shown in the console after 3 seconds
delayedResult(-5, 10, 2000, function(result) {
    window.alert(result);
}); // 5 (-5+10) will be shown in an alert dialog after 2 seconds
```

Hint: You should use window.setTimeout() for time scheduling.

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Assignment 2: HTML DOM and AJAX

Complete the functions below to make an AJAX call to a URL by Fetch API, and show the response data in the page. You may render UI with any style.

```
function ajax(url) {
        // your code here
}
function render(data) {
        // your code here
}

const url = "https://remote-assignment.s3.ap-northeast-1.amazonaws.com/products";

ajax(url).then((data) => {
  render(data);
});
```

```
// you should get product information in JSON format and render data in the page
```

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Assignment 3: Re-Implement Layout by React

Re-implement what we have done in week 1, and assignment 4 in week 2 by React thinking and rules. You may like to follow the steps below:

1. Prepare your React project. To be simple, you can start from downloading this Minimal HTML Template provided by the official getting started page.
2. Re-create RWD page layout, the same as what we have done in week 1.
3. Re-add effects to the page, the same as what we have done in assignment 4 in week 2. Follow React rules to handle events and manipulate HTML DOM by setting state.

In the HTML file, you can add only single <div> in <body>, any other HTML elements should be rendered dynamically by React Components.

Reminder: Don’t hesitate to call for help if you get stuck in something more than one day.

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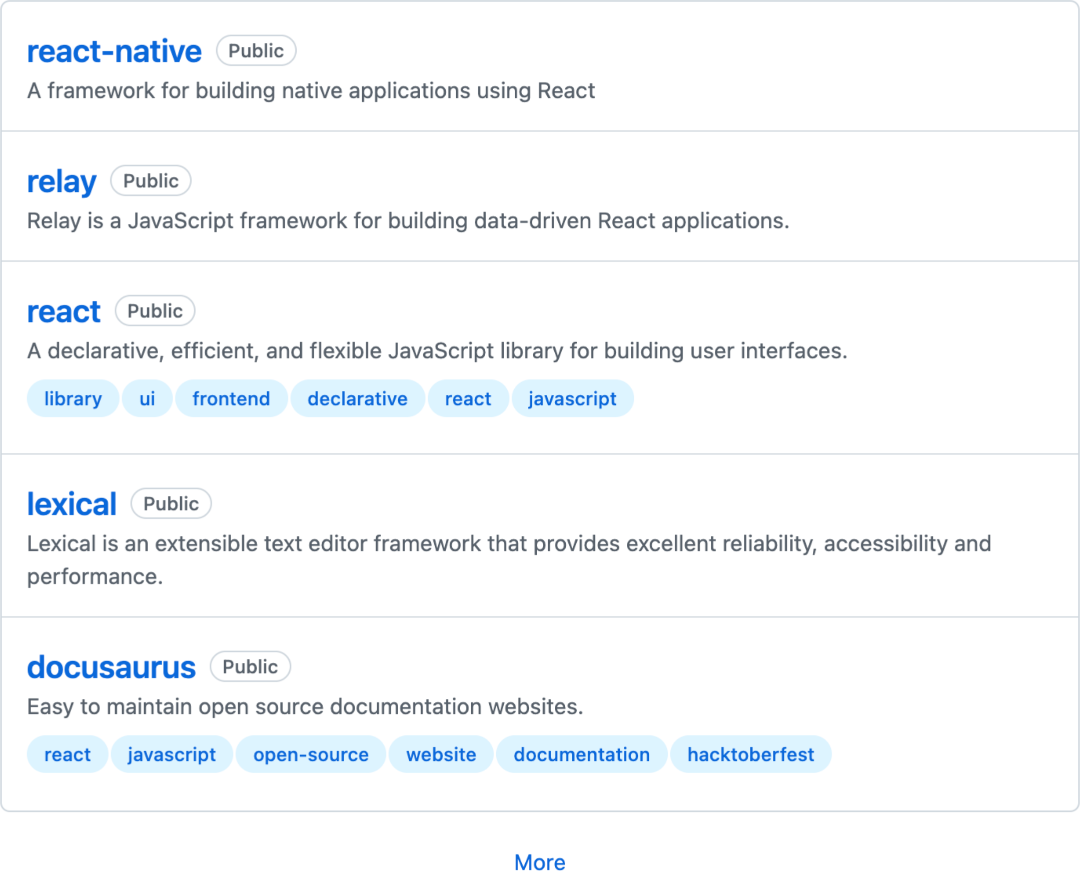
Assignment 4: HTML DOM and AJAX (Advanced Optional)

Make an AJAX call to https://api.github.com/orgs/facebook/repos?per_page=5&page=1 by Fetch API, and show the name, visibility, description, and topics for each item in the page. When the user clicks the More button, show 5 more items.



react-native Public

A framework for building native applications using React

relay Public

Relay is a JavaScript framework for building data-driven React applications.

react Public

A declarative, efficient, and flexible JavaScript library for building user interfaces.

library ui frontend declarative react javascript

lexical Public

Lexical is an extensible text editor framework that provides excellent reliability, accessibility and performance.

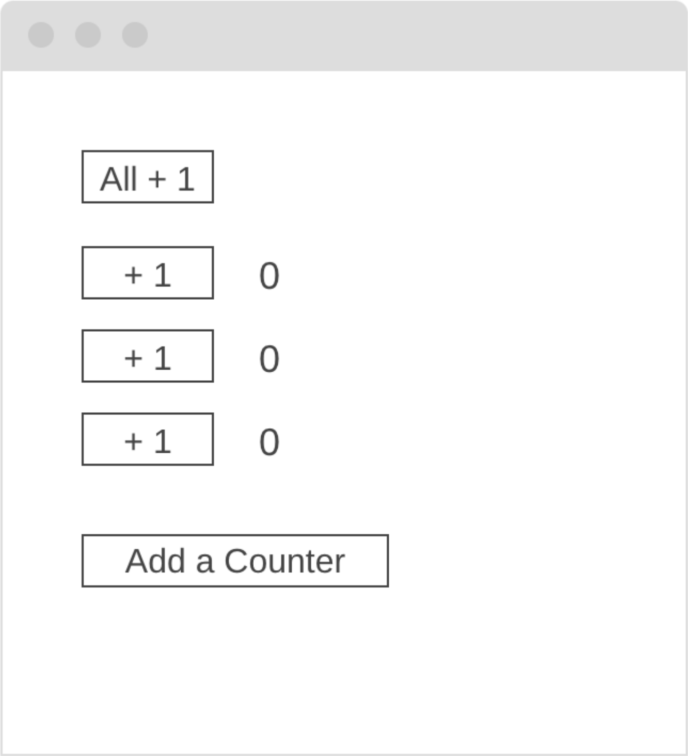
docusaurus Public

Easy to maintain open source documentation websites.

react javascript open-source website documentation hacktoberfest

More

Assignment 5: Implement Counter by React (Advanced Optional)



Follow the steps to finish the wireframe:

1. Create a component called *Counter* that renders a button and a number. Increment the number by 1 if the user clicks on the button.
2. Renders the component 3 times on the page
3. At the top, create a button that will increment all the numbers by 1 if being clicked.
4. At the bottom, create another button that will add a Counter onto the page if being clicked.

Advanced Resources

- Quick Start
- Describing the UI
- Adding Interactivity