Integrating React with APIs

Objectives

- Connect a React App with an API
- Name the steps to make a GET request and update state in a React.Component
- Name the steps to make a POST request and update state in a React.Component

Steps to populate state based on an API

- 2. define an async componentDidMount method
- 3. fetch the data and await the response (inside componentDidMount)
- 4. turn it into json and await the response

Fetch Data Example

- define an async method on your component
- fetch the data and await the response
- turn it into json and await the response
- call setState()

```
class App extends React.Component {
  state = {
    people: []
  async componentDidMount() {
    const response = await fetch('http://localhost:8181/api/people')
    const json = await response.json()
    this.setState({people: json})
  render() {
    return <div>...</div>
```

Steps for handling a POST request in a React. Component

- 1. Define an async method that takes the data as a parameter.

 Note an event handler needs to use this method after it gets information out of the DOM (such as a form)
- 2. use fetch to do the POST request
- 3. get the added data from the json
- 4. use this.setState() to update state with the new item

Post

```
class App extends React.Component {
 async createItem(item) {
   const response = await fetch('http://localhost:8181/api/people', {
     method: 'POST',
      body: JSON.stringify(item),
     headers: {
        'Content-Type': 'application/json',
        'Accept': 'application/json',
   })
   const person = await response.json()
   this.setState({people: [...this.state.people, person]})
 render() {
   return <div>...</div>
```

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