PROMINEO TECH

Web App Design with React Final Project

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.
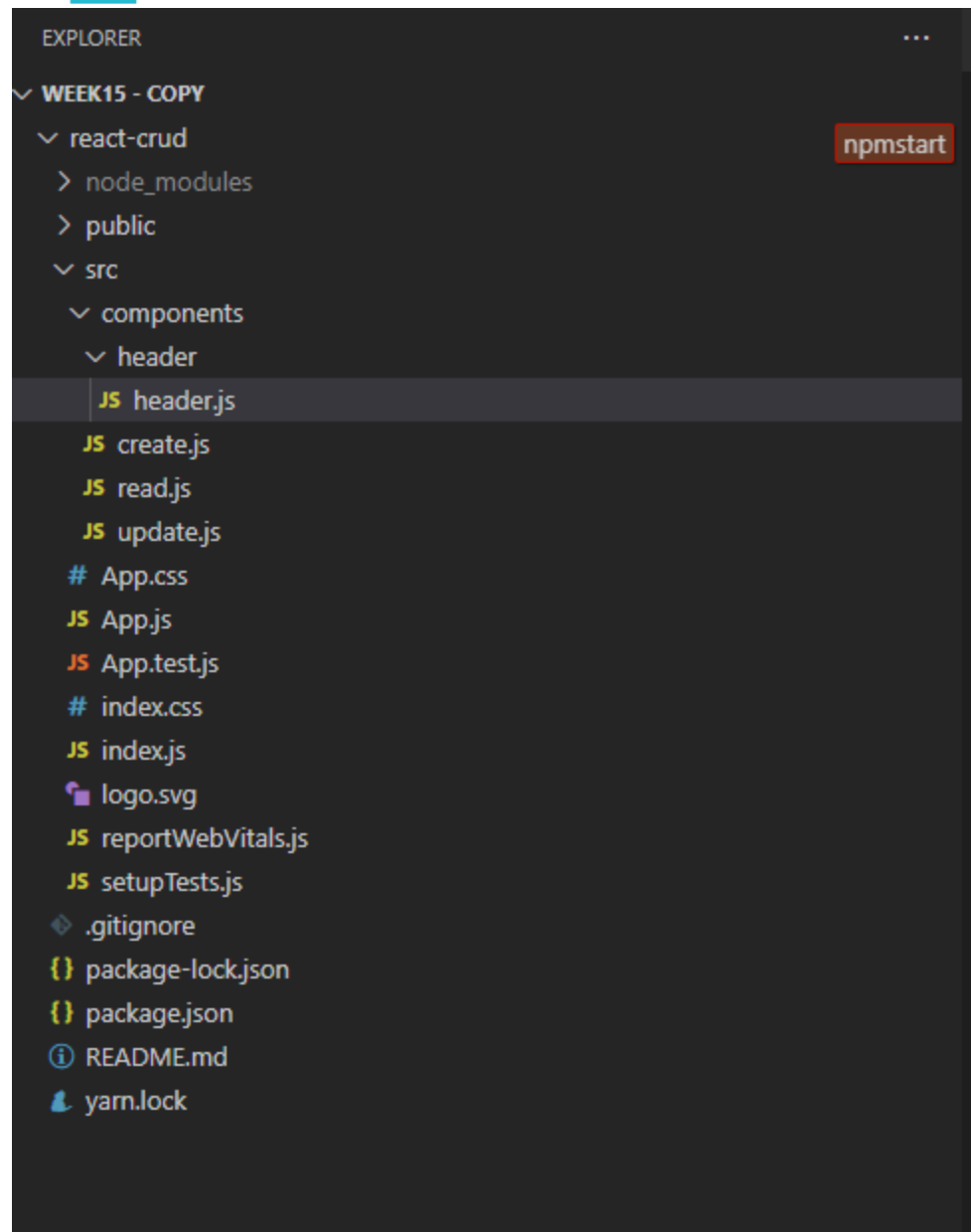
Coding Steps:

1. Using an online API of your choice, or multiple APIs (or if no API can be found, using an array for in-memory storage is okay as well), create a React project of your choice. You will be working on this for the next three weeks.
2. Project must meet the following criteria:
   a. Use React Router and have at least 3 pages
   b. Use React Bootstrap or an alternative styling library
   c. Contain at least 10 components
   d. Allow for all CRUD operations

Screenshots of Code:

EXPLORER   ...

∨ WEEK15 - COPY
  ∨ react-crud   npmstart
    > node_modules
    > public
    ∨ src
      ∨ components
        ∨ header
          JS header.js
      JS create.js
      JS read.js
      JS update.js
      # App.css
      JS App.js
      JS App.test.js
      # index.css
      JS index.js
      🔒 logo.svg
      JS reportWebVitals.js
      JS setupTests.js
    ◇ .gitignore
    {} package-lock.json
    {} package.json
    ⓘ README.md
    🐱 yarn.lock

| JS App.js | JS create.js | JS read.js | JS update.js | # App.css | JS header.js ✕ |

react-crud > src > components > header > JS header.js > [∅] default

```javascript
1    import React from "react";
2    import { Link } from "react-router-dom";
3    import { Navbar, Container, Nav } from "react-bootstrap";
4    import 'semantic-ui-css/semantic.min.css';
5
6
7
8    const Header = () => {
9        return (
10           <Navbar bg="primary" variant="dark">
11               <Container>
12                   <Navbar.Brand href="#home">Navbar</Navbar.Brand>
13                       <Nav className="me-auto">
14                           <Nav.Link href="/">Add New Employee</Nav.Link>
15                           <Nav.Link href="/read">View All Employees</Nav.Link>
16                       </Nav>
17               </Container>
18           </Navbar>
19       )
20   }
21
22   export default Header;
```

```css
 1   .App {
 2     text-align: center;
 3   }
 4
 5   .App-logo {
 6     height: 40vmin;
 7     pointer-events: none;
 8   }
 9
10   @media (prefers-reduced-motion: no-preference) {
11     .App-logo {
12       animation: App-logo-spin infinite 20s linear;
13     }
14   }
15
16   .App-header {
17     background-color: #282c34;
18     min-height: 100vh;
19     display: flex;
20     flex-direction: column;
21     align-items: center;
22     justify-content: center;
23     font-size: calc(10px + 2vmin);
24     color: white;
25   }
26
27   .App-link {
28     color: #61dafb;
29   }
30
31   @keyframes App-logo-spin {
32     from {
33       transform: rotate(0deg);
34     }
35     to {
36       transform: rotate(360deg);
37     }
38   }
39
40
```

```
JS App.js        JS create.js      JS read.js       JS update.js       # App.css  ×    JS header.js

react-crud > src > # App.css > {} @media (prefers-reduced-motion: no-preference)

41
42    @import url('https://fonts.googleapis.com/css2?family=Roboto+Flex:opsz,wght@8..144,700&display=swap');
43
44
45
46    .main{
47      display: flex;
48      justify-content: center;
49      align-items: center;
50      height: 100vh;
51      background-color: #3a8fff;
52      color: whitesmoke;
53      flex-direction: column;
54    }
55
56    .main-header{
57      font-family: 'Courier New', Courier, monospace;
58      justify-content: left;
59    }
60
61    .create-form label{
62      color: whitesmoke !important;
63      font-family: 'Courier New', Courier, monospace;
64       font-size: 12px !important;
65    }
66
67
68    table {
69      border-collapse: collapse;
70      width: 100%;
71    }
72
73    th {
74      text-align: left;
75      padding: 8px;
76      background-color: rgb(34, 85, 34);
77
78    }
79
80    tr:nth-child(even) {
```

Tabs: App.js | create.js | read.js | update.js × | App.css | header.js

react-crud > src > components > JS update.js > ...

```javascript
import React, { useState, useEffect } from 'react';
import { Button, Checkbox, Form } from 'semantic-ui-react'
import axios from 'axios';
import { useHistory } from 'react-router';

export default function Update() {
    let history = useHistory();
    const [id, setID] = useState(null);
    const [firstName, setFirstName] = useState('');
    const [middleName, setMiddleName] = useState('');
    const [lastName, setLastName] = useState('');
    const [addressOne, setAddressOne] = useState('');
    const [addressTwo, setAddressTwo] = useState('');
    const [checkbox, setCheckbox] = useState(false);
    const [checkbox2, setCheckbox2] = useState(false);

    useEffect(() => {
        setID(localStorage.getItem('ID'))
        setFirstName(localStorage.getItem('First Name'));
        setMiddleName(localStorage.getItem('Middle Name'));
        setLastName(localStorage.getItem('Last Name'));
        setAddressOne(localStorage.getItem('Address'));
        setAddressTwo(localStorage.getItem('City, State'));
        setCheckbox(localStorage.getItem('Checkbox Value'));
        setCheckbox2(localStorage.getItem('Checkbox2 Value'));
    }, []);

    const updateAPIData = () => {
        axios.put(`https://627e7dde271f386ceff943b2.mockapi.io/resourceData/${id}`, {
            firstName,
            middleName,
            lastName,
            addressOne,
            addressTwo,
            checkbox,
            checkbox2
        }).then(() => {
            history.push('/read')
        })
    }
    return (
```

```
      JS App.js        JS create.js       JS read.js       JS update.js  ×       # App.css       JS header.js

react-crud > src > components > JS update.js > 🔷 Update > [●] updateAPIData
38                      history.push('/read')
39                  })
40              }
41              return (
42                  <div>
43                      <h2>Update Current User</h2>
44                      <Form className="create-form">
45
46                          <Form.Field>
47
48                              <label>First Name</label>
49                              <input placeholder='First Name' value={firstName} onChange={(e) => setFirstName(e.target.value)}/>
50                          </Form.Field>
51                          <Form.Field>
52                              <label>Middle Name</label>
53                              <input placeholder='Middle Name' value={middleName} onChange={(e) => setMiddleName(e.target.value)}/>
54                          </Form.Field>
55                          <Form.Field>
56                              <label>Last Name</label>
57                              <input placeholder='Last Name' value={lastName} onChange={(e) => setLastName(e.target.value)}/>
58                          </Form.Field>
59                          <Form.Field>
60                              <label>Address</label>
61                              <input placeholder='Address' value={addressOne} onChange={(e) => setAddressOne(e.target.value)}/>
62                          </Form.Field>
63                          <Form.Field>
64                              <label>City, State</label>
65                              <input placeholder='City, State' value={addressTwo} onChange={(e) => setAddressTwo(e.target.value)}/>
66                          </Form.Field>
67
68                          <Form.Field>
69                              <Checkbox label='I agree to the Terms and Conditions' checked={checkbox} onChange={() => setCheckbox(!checkbox)}/>
70                          </Form.Field>
71                          <Form.Field>
72                              <Checkbox label='Employee Handbook issued' checked={checkbox2} onChange={() => setCheckbox2(!checkbox2)}/>
73                          </Form.Field>
74                          <Button type='submit' onClick={updateAPIData}>Update</Button>
75                      </Form>
76                  </div>
77              )
78          }
```

```
App.js        create.js      read.js    X    update.js      # App.css      header.js

react-crud > src > components > JS read.js > ...
 1    import axios from 'axios';
 2    import React, { useEffect, useState } from 'react';
 3    import { Table, Button } from 'semantic-ui-react';
 4    import { Link } from 'react-router-dom';
 5
 6
 7    export default function Read() {
 8        const [APIData, setAPIData] = useState([]);
 9        useEffect(() => {
10            axios.get(`https://627e7dde271f386ceff943b2.mockapi.io/resourceData`)
11                .then((response) => {
12                    console.log(response.data)
13                    setAPIData(response.data);
14                })
15        }, []);
16
17        const setData = (data) => {
18            let { id, firstName, lastName, middleName,addressOne, addressTwo, checkbox, checkbox2 } = data;
19            localStorage.setItem('ID', id);
20            localStorage.setItem('First Name', firstName);
21            localStorage.setItem('Middle Name', middleName);
22            localStorage.setItem('Last Name', lastName);
23            localStorage.setItem('Address', addressOne);
24            localStorage.setItem('City, State', addressTwo);
25            localStorage.setItem('Checkbox Value', checkbox)
26            localStorage.setItem('Checkbox2 Value', checkbox2)
27        }
28
29        const getData = () => {
30            axios.get(`https://627e7dde271f386ceff943b2.mockapi.io/resourceData`)
31                .then((getData) => {
32                    setAPIData(getData.data);
33                })
34        }
35
36        const onDelete = (id) => {
37            axios.delete(`https://627e7dde271f386ceff943b2.mockapi.io/resourceData/${id}`)
38            .then(() => {
39                getData();
40            })
41        }
```

```
JS App.js          JS create.js        JS read.js    ×    JS update.js       # App.css         JS header.js

react-crud > src > components > JS read.js > ...

45                      <h2>Current User List</h2>
46
47              <Table singleLine >
48                  <Table.Header>
49                      <Table.Row>
50                          <Table.HeaderCell>First Name</Table.HeaderCell>
51                          <Table.HeaderCell>Middle Name</Table.HeaderCell>
52                          <Table.HeaderCell>Last Name</Table.HeaderCell>
53                          <Table.HeaderCell>Address</Table.HeaderCell>
54                          <Table.HeaderCell>City, State</Table.HeaderCell>
55                          <Table.HeaderCell>Terms</Table.HeaderCell>
56                          <Table.HeaderCell>Handbook</Table.HeaderCell>
57                          <Table.HeaderCell>Edit</Table.HeaderCell>
58                          <Table.HeaderCell>Delete</Table.HeaderCell>
59                      </Table.Row>
60                  </Table.Header>
61
62                  <Table.Body>
63                      {APIData.map((data) => {
64                          return (
65                              <Table.Row>
66                                  <Table.Cell>{data.firstName}</Table.Cell>
67                                  <Table.Cell>{data.middleName}</Table.Cell>
68                                  <Table.Cell>{data.lastName}</Table.Cell>
69                                  <Table.Cell>{data.addressOne}</Table.Cell>
70                                  <Table.Cell>{data.addressTwo}</Table.Cell>
71                                  <Table.Cell>{data.checkbox ? 'Checked' : 'Unchecked'}</Table.Cell>
72                                  <Table.Cell>{data.checkbox2 ? 'Checked' : 'Unchecked'}</Table.Cell>
73                                  <Link to='/update'>
74                                      <Table.Cell>
75                                          <Button onClick={() => setData(data)}>Edit</Button>
76                                      </Table.Cell>
77                                  </Link>
78                                  <Table.Cell>
79                                      <Button onClick={() => onDelete(data.id)}>Delete</Button>
80                                  </Table.Cell>
81                              </Table.Row>
82                          )
83                      })}
84                  </Table.Body>
85              </Table>

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL
```

First screenshot tabs: JS App.js | JS create.js × | JS read.js | JS update.js | # App.css | JS header.js

react-crud > src > components > JS create.js > ⊗ Create

```js
1   import React, { useState } from 'react';
2   import { Button, Checkbox, Form } from 'semantic-ui-react';
3   import axios from 'axios';
4   import { useHistory } from 'react-router';
5
6   export default function Create() {
7       let history = useHistory();
8       const [firstName, setFirstName] = useState('');
9       const [middleName, setMiddleName] = useState('');
10      const [lastName, setLastName] = useState('');
11      const [addressOne, setAddressOne] = useState('');
12      const [addressTwo, setAddressTwo] = useState('');
13      const [checkbox, setCheckbox] = useState(false);
14      const [checkbox2, setCheckbox2] = useState(false);
15      console.log(checkbox)
16      console.log(checkbox2)
17      const postData = () => {
18          axios.post(`https://627e7dde271f386ceff943b2.mockapi.io/resourceData`, {
19              firstName,
20              middleName,
21              lastName,
22              addressOne,
23              addressTwo,
24              checkbox,
25              checkbox2
26          }).then(() => {
27              history.push('/read')
28          })
29      }
30      return (
31          <div>
32              <h2>Add New User</h2>
33
34              <Form className="create-form">
35                  <Form.Field>
36                      <label>First Name</label>
37                      <input placeholder='First Name' onChange={(e) => setFirstName(e.target.value)}/>
38                  </Form.Field>
39                  <Form.Field>
40                      <label>Middle Name</label>
41                      <input placeholder='Middle Name' onChange={(e) => setMiddleName(e.target.value)}/>
```

Second screenshot tabs: JS App.js | JS create.js × | JS read.js | JS update.js | # App.css | JS header.js

react-crud > src > components > JS create.js > ⊗ Create

```js
34              <Form className="create-form">
35                  <Form.Field>
36                      <label>First Name</label>
37                      <input placeholder='First Name' onChange={(e) => setFirstName(e.target.value)}/>
38                  </Form.Field>
39                  <Form.Field>
40                      <label>Middle Name</label>
41                      <input placeholder='Middle Name' onChange={(e) => setMiddleName(e.target.value)}/>
42                  </Form.Field>
43                  <Form.Field>
44                      <label>Last Name</label>
45                      <input placeholder='Last Name' onChange={(e) => setLastName(e.target.value)}/>
46                  </Form.Field>
47                  <Form.Field>
48                      <label>Address</label>
49                      <input placeholder='Address' onChange={(e) => setAddressOne(e.target.value)}/>
50                  </Form.Field>
51                  <Form.Field>
52                      <label>City, State</label>
53                      <input placeholder='City, State' onChange={(e) => setAddressTwo(e.target.value)}/>
54                  </Form.Field>
55
56                  <Form.Field>
57                      <Checkbox label='I agree to the Terms and Conditions' onChange={(e) => setCheckbox(!checkbox)}/>
58                  </Form.Field>
59                  <Form.Field>
60                      <Checkbox label='Employee Handbook issued' onChange={(e) => setCheckbox2(!checkbox2)}/>
61                  </Form.Field>
62                  <Button onClick={postData} type='submit'>Submit</Button>
63              </Form>
64          </div>
65      )
66  }
```

```
JS App.js  ×    JS create.js      JS read.js       JS update.js      # App.css      JS header.js

react-crud > src > JS App.js > ...
     1    import './App.css';
     2    import Create from './components/create';
     3    import Read from './components/read';
     4    import Update from './components/update';
     5    import { BrowserRouter as Router, Route } from 'react-router-dom'
     6    import Header from './components/header/header';
     7    import '../node_modules/bootstrap/dist/css/bootstrap.css'
     8
     9    function App() {
    10      return (
    11        <Router>
    12          <Header />
    13          <div className="main">
    14            <h1 className="bold">Acme Inc. Human Resources Employee Info</h1>
    15            <br></br>
    16            <br></br>
    17            <div>
    18
    19              <Route exact path='/' component={Create} ></Route>
    20
    21            </div>
    22            <div style={{ marginTop: 40 }}>
    23              <Route exact path='/read' component={Read} />
    24            </div>
    25
    26            <Route path='/update' component={Update} />
    27          </div>
    28        </Router>
    29      );
    30    }
    31
    32    export default App;
    33
```

Screenshots of Running Application:

localhost:3000

J | BitB | | SP | | YT | Coding | EXP | | | | AWS | FW | | EdgeWave | Trend | GS | Squarespace | 3CX | | MS | HDsk | Linux | Shopify

Acme Inc. Human Resources Employee Info

Add New User

First Name

First Name

Middle Name

Middle Name

Last Name

Last Name

Address

Address

City, State

City, State

☐ I agree to the Terms and Conditions

☐ Employee Handbook issued

Submit

PROMINEO TECH

Acme Inc. Human Resources Employee Info

Add New User

First Name

Johnny

Middle Name

Middle Name

Last Name

Appleseed

Address

Anytown

City, State

AK

☐ I agree to the Terms and Conditions

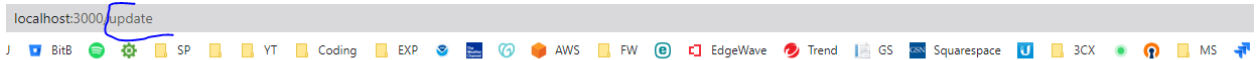☑ Employee Handbook issued

Submit

PROMINEO TECH

Acme Inc. Human Resources Employee Info

Current User List

First Name	Middle Name	Last Name	Address	City, State	Terms	Handbook	Edit	Delete
Chris	P.	Bacon			Unchecked	Unchecked	Edit	Delete
Perry		Winkle	123 Main St	Anytown, MA	Checked	Checked	Edit	Delete
Thing		One			Checked	Checked	Edit	Delete
Thing		Two			Unchecked	Unchecked	Edit	Delete
New		Dude2			Unchecked	Unchecked	Edit	Delete
Some	Cool	Dude	123 Hotrod Blvd	Anytown, AK	Checked	Checked	Edit	Delete
Some	Cool	Chick	123	ND	Checked	Checked	Edit	Delete
new		dude			Unchecked	Unchecked	Edit	Delete
Johnny		Appleseed	Anytown	AK	Unchecked	Checked	Edit	Delete

PROMINEO TECH

Navbar   Add New Employee   View All Employees

Acme Inc. Human Resources Employee Info

Update Current User

First Name

Johnny

Middle Name

Middle Name

Last Name

Appleseed

Address

Anytown

City, State

AK

☑ I agree to the Terms and Conditions

☑ Employee Handbook issued

Update

PROMINEO TECH

Acme Inc. Human Resources Employee Info

Current User List

First Name	Middle Name	Last Name	Address	City, State	Terms	Handbook	Edit	Delete
Chris	P.	Bacon			Unchecked	Unchecked	Edit	Delete
Perry		Winkle	123 Main St	Anytown, MA	Checked	Checked	Edit	Delete
Thing		One			Checked	Checked	Edit	Delete
Thing		Two			Unchecked	Unchecked	Edit	Delete
New		Dude2			Unchecked	Unchecked	Edit	Delete
Some	Cool	Dude	123 Hotrod Blvd	Anytown, AK	Checked	Checked	Edit	Delete
Some	Cool	Chick	123	ND	Checked	Checked	Edit	Delete
new		dude			Unchecked	Unchecked	Edit	Delete
Johnny	NewMiddleName	Appleseed	Anytown	AK	Checked	Checked	Edit	Delete

Deleted User

Current User List

First Name	Middle Name	Last Name	Address	City, State	Terms	Handbook	Edit	Delete
Chris	P.	Bacon			Unchecked	Unchecked	Edit	Delete
Perry		Winkle	123 Main St	Anytown, MA	Checked	Checked	Edit	Delete
Thing		One			Checked	Checked	Edit	Delete
Thing		Two			Unchecked	Unchecked	Edit	Delete
New		Dude2			Unchecked	Unchecked	Edit	Delete
Some	Cool	Dude	123 Hotrod Blvd	Anytown, AK	Checked	Checked	Edit	Delete
Some	Cool	Chick	123	ND	Checked	Checked	Edit	Delete
Johnny	NewMiddleName	Appleseed	Anytown	AK	Checked	Checked	Edit	Delete

API used
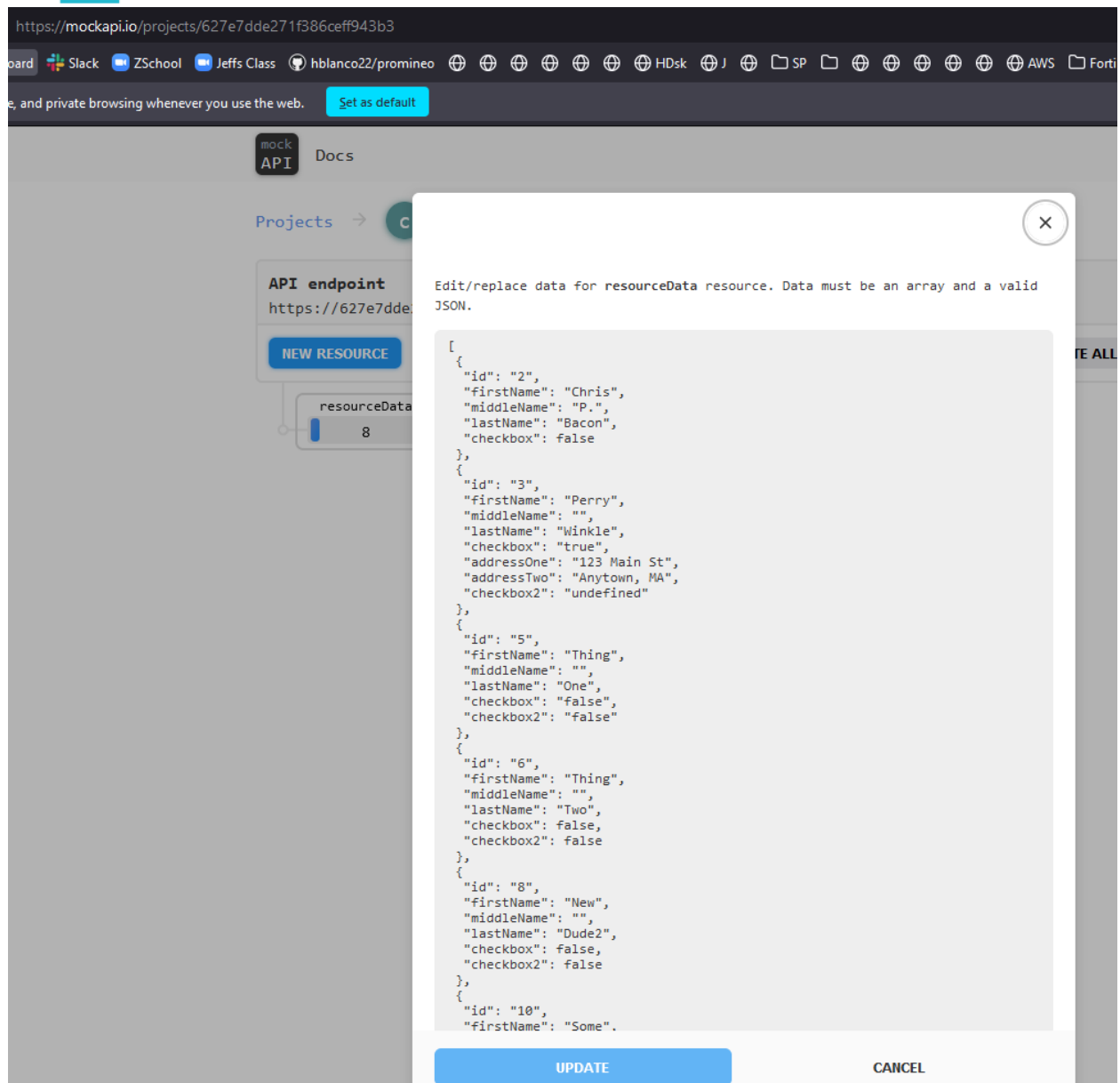
URL to GitHub Repository:

I lost everything and had to rebuild twice.

https://github.com/hblanco22/PromineoSchool/tree/branch-name/week16final/react-crud