



Web App Design with React Week 13 Coding Assignment

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 create-react-app, create a new React project.
2. Create a LoginForm component that should contain username and password input fields, an h3 that says Log In, and a border. Style the component using the default generated css file.
3. Create a Navigation component that contains links styled like a navbar. The links don't have to go anywhere.



- Put the Navigation component at the top of the page and the LoginForm in the center of the page.

Screenshots of Code:

```
JS LoginForm.js U X JS index.js U <> index.html 1, U # App.css 1, U JS N
my-app > src > JS LoginForm.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom';
3 import Navbar from './Navbar';
4 import './App.css';
5
6
7 const formStyle = {
8   display: 'flex',
9   alignitems: 'center',
10  margin: 'auto',
11  padding: '10px',
12  border: '1px solid #c9c9c9',
13  borderRadius: '5px',
14  background: '#f5f5f5',
15  width: '220px',
16  display: 'block'
17 };
18
19 const labelStyle = {
20   margin: '10px 0 5px 0',
21   fontFamily: 'Arial, Helvetica, sans-serif',
22   fontSize: '15px'
23 };
24
25 const inputStyle = {
26   margin: '5px 0 10px 0',
27   padding: '5px',
28   border: '1px solid #bfbfbf',
29   borderRadius: '3px',
30   boxSizing: 'border-box',
31   width: '100%',
32   alignitems: "center"
33 };
34
35 const submitStyle = {
36   margin: '10px 0 0 0',
37   padding: '7px 10px',
38   border: '5px solid #ffffff',
39   borderRadius: '10px',
40   background: '#00994C',
41   width: '100%',
42   fontSize: '15px',
43   color: 'white',
44   display: 'block',
45 };
46
47 const Field = React.forwardRef(({label, type}, ref) => {
48   return (
```



PROMINEO TECH

```
47 const Field = React.forwardRef(({label, type}, ref) => {
48   return (
49     <div>
50       <label style={labelStyle} >{label}</label>
51       <input ref={ref} type={type} style={inputStyle} />
52     </div>
53   );
54   });
55
56 const Form = ({onSubmit}) => {
57   const usernameRef = React.useRef();
58   const passwordRef = React.useRef();
59   const handleSubmit = e => {
60     e.preventDefault();
61     const data = {
62       username: usernameRef.current.value,
63       password: passwordRef.current.value
64     };
65     onSubmit(data);
66   };
67   return (
68     <form style={formStyle} onSubmit={handleSubmit}><h3>Log In</h3>
69     <Field ref={usernameRef} label="Username:" type="text" />
70     <Field ref={passwordRef} label="Password:" type="password" />
71     <div>
72       <button style={submitStyle} type="submit">Submit</button>
73     </div>
74   </form>
75   );
76   });
77
78
79 const LoginForm = () => {
80   const handleSubmit = data => {
81     const json = JSON.stringify(data, null, 4);
82     console.clear();
83     console.log(json);
84   };
85   return (
86     <>
87       <div>
88         <Navbar />
89       </div>
90       <div className="appStyle">
91         <Form onSubmit={handleSubmit} />
92       </div>
93     </>
94   );
95 }
```



PROMINEO TECH

```
94     );  
95   };  
96  
97   const root = document.querySelector('#root');  
98   ReactDOM.render(<LoginForm />, root );  
99  
100  export default LoginForm;  
101
```

JS LoginForm.js U

JS index.js U X

<> index.html 1, U

App.css 1, U

JS Navbar.js

my-app > src > JS index.js > ...

```
1  import React from 'react';  
2  import createRoot from "react-dom/client"  
3  import './index.css';  
4  import LoginForm from './LoginForm';  
5  import reportWebVitals from './reportWebVitals';  
6  
7  const container = document.getElementById('root')  
8  const root = createRoot(container);  
9  root.render(  
10    <React.StrictMode>  
11      <LoginForm />  
12    </React.StrictMode>  
13  );  
14  
15  // If you want to start measuring performance in your app, pass a function  
16  // to log results (for example: reportWebVitals(console.log))  
17  // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals  
18  reportWebVitals();  
19
```



PROMINEO TECH

```
JS LoginForm.js U    JS index.js U ×    <> index.html 1, U    # App.css 1, U    JS Navbar.j
my-app > src > JS index.js > ...
 1  import React from 'react';
 2  import createRoot from "react-dom/client"
 3  import './index.css';
 4  import LoginForm from './LoginForm';
 5  import reportWebVitals from './reportWebVitals';
 6
 7  const container = document.getElementById('root')
 8  const root = createRoot(container);
 9  root.render(
10    <React.StrictMode>
11      <LoginForm />
12    </React.StrictMode>
13  );
14
15  // If you want to start measuring performance in your app, pass a function
16  // to log results (for example: reportWebVitals(console.log))
17  // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
18  reportWebVitals();
19
```



PROMINEO TECH

```
JS LoginForm.js U    JS index.js U    <> index.html 1, U X    # App.css 1, U    JS Navbar.js U

my-app > public > <> index.html > html > head
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="utf-8" />
5      <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
6      <meta name="viewport" content="width=device-width, initial-scale=1" />
7      <meta name="theme-color" content="#000000" />
8      <meta
9        name="description"
10       content="Web site created using create-react-app"
11     />
12     <link rel="stylesheet" href="./src/app.css"/>
13     <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
14     <link
15       rel="stylesheet"
16       href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
17       integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
18       crossorigin="anonymous"/>
19
20
21
22     <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
23     <!--
24       Notice the use of %PUBLIC_URL% in the tags above.
25       It will be replaced with the URL of the `public` folder during the build.
26       Only files inside the `public` folder can be referenced from the HTML.
27
28       Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will
29       work correctly both with client-side routing and a non-root public URL.
30       Learn how to configure a non-root public URL by running `npm run build`.
31     -->
32     <title>Login Form</title>
33   </head>
34   <body>
35     <noscript>You need to enable JavaScript to run this app.</noscript>
36     <div class="container my-3" id="root"></div>
37
38     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
39       integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+IlRH9sENB00LRn5q+8nbTov4+1p"
40       crossorigin="anonymous"></script>
41   </body>
42 </html>
43
```



PROMINEO TECH

```
my-app > src > # App.css > .nav
1  * {
2    box-sizing: border-box;
3  }
4  .App {
5    text-align: center;
6  }
7
8  .appStyle {
9    height: '250px';
10   display: 'flex'
11 }
12
13 form {
14   margin: auto;
15   align: center;
16 }
17
18 body {
19   display: flex;
20   align-items: center;
21 }
22
23 .nav {
24   background-color: #333;
25   color: white;
26   display: flex;
27   justify-content: space-between;
28   align-items: center;
29   gap: 2rem;
30   padding: 0 1rem;
31   align-items: stretch;
32 }
33
34 .nav ul {
35   padding: 0;
36   margin: 0;
37   list-style: none;
38   display: flex;
39   gap: 1rem;
40 }
41 .nav a {
42   color: inherit;
43   text-decoration: none;
44   height: 100%;
45   display: flex;
46   align-items: center;
47   padding: .25rem;
48 }
```




PROMINEO TECH

```
my-app > src > # App.css > .nav
46   align-items: center;
47   padding: .25rem;
48 }
49
50 .site-title {
51   font-size: 2 rem;
52 }
53
54 .nav li.active {
55   background-color: #555;
56 }
57
58 .nav li:hover {
59   background-color: #777;
60 }
```




PROMINEO TECH

my-app > src > JS Navbar.js >  Navbar

```
1  import React from "react";
2
3  export default function Navbar(){
4    return (
5      <nav className="nav">
6        <a href="#" className="site-title">Log In Page</a>
7        <ul>
8          <li className="active">
9            <a href="#">About Us</a>
10           </li>
11          <li className="active">
12            <a href="#">Contact</a>
13          </li>
14        </ul>
15      </nav>
16    )
17  }
```



PROMINEO TECH

Screenshots of Running Application:

Log In Page

About Us Contact

Log In

Username:

Password:

Submit

Elements Console >> 1

Filter

1 Issue: 1

Console was cleared LoginForm.js:82

```
{
  "username": "tom123",
  "password": "l3m3!n"
}
```

Log In Page

About Us Contact

Log In

Username:

Password:

Submit

URL to GitHub Repository:

<https://github.com/zaccrabbtree/week13reactloginpage.git>



PROMINEO TECH