



Web App Design with React Week 3 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 the Houses API, or any open API of your choice you can find online, create a single page that allows for all 4 crud operations to be performed on a resource from that API. Create a React component (or more, if needed) to represent the resource. Make all forms and other necessary UI pieces their own components as reasonable.

Screenshots of Code:



PROMINEO TECH

```
JS MemberApi.js x JS Member.js # index.css JS App.js JS NewMemberForm.js JS MembersList.js JS NewBookForm.js
src > rest > JS MemberApi.js > MemberApi > post > resp
1  const MEMBER_ENDPOINT = 'https://crudcrud.com/api/5b835c8e4fd54c308320ec17639bef8d/members';
2
3  class MemberApi {
4    get = async () => {
5      try {
6        console.log(MEMBER_ENDPOINT);
7        const resp = await fetch(MEMBER_ENDPOINT);
8        console.log(resp);
9        const data = await resp.json();
10       console.log(data);
11       return data;
12     } catch(e) {
13       console.log('Oops, looks like fetchMembers had an issue.', e);
14     }
15   }
16
17   post = async (member) => {
18     try {
19       const resp = await fetch(`${MEMBER_ENDPOINT}`, {
20         method: 'POST',
21         headers: {
22           'Content-Type' : 'application/json'
23         },
24         body: JSON.stringify(member)
25       });
26       return await resp.json();
27     } catch(e) {
28       console.log('Oops, looks like posting members had an issue.', e);
29     }
30   }
31 }
32
```

```
33 put = async (member) => {
34   try {
35     console.log(MEMBER_ENDPOINT);
36     const resp = await fetch(`${MEMBER_ENDPOINT}/${member._id}`, {
37       method: 'PUT',
38       headers: {
39         'Content-Type' : 'application/json'
40       },
41       body: JSON.stringify({ "name" : member.name, "numberId" : member.numberId, "lastName": member.lastName, "books" : member.books}),
42     });
43     console.log(resp);
44     return await resp.json();
45   } catch(e) {
46     console.log('Oops, looks like updating members had an issue.', e);
47   }
48 }
49
50 delete = async (memberId) => {
51   try {
52     console.log(MEMBER_ENDPOINT);
53     const resp = await fetch(`${MEMBER_ENDPOINT}/${memberId}`, {
54       method: 'DELETE'
55     });
56     console.log(resp);
57   } catch(e) {
58     console.log('Oops, looks like delete member had an issue.', e);
59   }
60 }
61
62
63
64 export const memberApi = new MemberApi();
```

[illegible]

```
JS MemberApi.js JS Member.js JS App.js JS NewMemberForm.js JS MembersList.js JS NewBookForm.js
src > JS App.js > App > render
1
2 import React, { Component } from 'react';
3 import { MembersList } from './components/MembersList';
4 import 'bootstrap/dist/css/bootstrap.min.css';
5
6
7 class App extends Component {
8   render() {
9     return (
10       <div className="app-div container p-4">
11         <MembersList />
12       </div>
13     )
14   }
15 }
16
17 export default App;
```



PROMINEO TECH

```
JS MemberApi.js JS Member.js JS App.js JS NewMemberForm.js X JS MembersList.js JS NewBookForm.js
src > components > JS NewMemberForm.js > NewMemberForm
32
33   return (
34     <div className="new-recipe">
35       <div className="p-2 border">
36         <h4><strong>Enter a New Member</strong></h4>
37         <Form onSubmit={onSubmit}>
38           <input
39             type='text'
40             placeholder='Card Member Id'
41             onChange={handleNumberIdInput}
42             value={numberId}
43           />
44           <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
45           <input
46             type='text'
47             placeholder='First Name'
48             onChange={(e) => setName(e.target.value)}
49             value={name}
50           />
51
52           <span>&nbsp;&nbsp;&nbsp;</span>
53           <input
54             type='text'
55             placeholder='Last Name'
56             onChange={(e) => setLastName(e.target.value)}
57             value={lastName}
58           />
59           <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
60           <button
61             className='btn-my-color rounded'
62             type='submit'
63             onClick={onSubmit}>Add Member</button>
64           <br />
65         </Form>
66       </div>
67     </div>
68   </div>
69 )
70 };
```



PROMINEO TECH

```
JS MemberApi.js JS Member.js JS App.js JS NewMemberForm.js JS MembersList.js X JS NewBookForm.js
src > components > JS MembersList.js > MembersList > render
1 import React from 'react';
2 import { Member } from './Member';
3 import { memberApi } from '../rest/MemberApi.js';
4 import { NewMemberForm } from './NewMemberForm';
5
6
7 export class MembersList extends React.Component {
8   state = {
9     members: []
10  };
11
12  componentDidMount() {
13    this.fetchMembers();
14  }
15
16  fetchMembers = async () => {
17    const returnedMembers = await memberApi.get();
18    this.setState({ members: returnedMembers });
19  };
20
21  createMember = async (newMember) => {
22    await memberApi.post(newMember);
23    this.fetchMembers();
24  };
25
26  updateMember = async (updatedMember) => {
27    await memberApi.put(updatedMember);
28    this.fetchMembers();
29  };
30
31  deleteMember = async (memberId) => {
32    await memberApi.delete(memberId);
33    this.fetchMembers();
34  }
35}
```



PROMINEO TECH

```
36   render() {
37     console.log('In render: ' + this.state.members);
38     const members = this.state.members
39     ? this.state.members.map((member) =>
40       <div className="round-corner container-fluid">
41         <div className="single-recipe border p-2">
42           <Member
43             key={member._id}
44             member= {member}
45             updateMember={this.updateMember}
46           /><br />
47           <button className="btn-my-color rounded" onClick={e =>
48             this.deleteMember(member._id)}>Delete Member</button>
49           <br /><br />
50         </div>
51       <br /> <br />
52     </div>)
53     : null;
54     console.log('Members in MemberList: ' + members);
55
56     return (
57       <div className="recipe-div p-2 border recipe-list">
58         <h1>Library Books Checkout Form </h1>
59         <div>
60           <ul>
61             {members}
62           </ul>
63         </div>
64
65         <div>
66           <NewMemberForm createMember={this.createMember}/>
67         </div>
68       </div>
69     );
70   };
71 }
```



PROMINEO TECH

```
JS MemberApi.js JS Member.js JS App.js JS NewMemberForm.js JS MembersList.js JS NewBookForm.js X
src > components > JS NewBookForm.js > [e] NewBookForm > [e] onSubmit
1  import React, { useState } from 'react';
2  import { Form } from 'react-bootstrap';
3
4
5  export const NewBookForm = (props) => {
6    const [title, setTitle] = useState('');
7    const [author, setAuthor] = useState('');
8
9    const onSubmit = (e) => {
10     e.preventDefault();
11     if (title) {
12       props.addNewBook({title, author});
13       setTitle('');
14       setAuthor('');
15     } else {
16       console.log('Invalid Book Input');
17     }
18   };
19
20
21   return (
22     <div className="new-ingredient border p-2">
23       <h4><strong>Add a New Book</strong></h4>
24       <Form onSubmit={onSubmit}>
25         <input
26           type='text'
27           placeholder='Title'
28           onChange={(e) => setTitle(e.target.value)}
29           value={title}
30         /> <span>&nbsp;&nbsp;&&nbsp;&nbsp;&</span>
31
32         <input
33           type='text'
34           placeholder='Author'
35           onChange={(e) => setAuthor(e.target.value)}
36           value={author}
37         /> <span>&nbsp;&nbsp;&&nbsp;&nbsp;&</span>
38         <button className="btn-my-color rounded" type='submit'>Add Book</button>
39       </Form>
40     </div>
41   )
42 };
```

Screenshots of Running Application:

Library Books Checkout Form

Enter a New Member

Card Member Id

First Name

Last Name

Add Member



PROMINEO TECH

Library Books Checkout Form

Member Id: 123456789

First Name: Mary **Last Name:** Jane

Books:

Add a New Book

Add Book

Delete Member

Enter a New Member

Add Member

Library Books Checkout Form

Member Id: 123456789

First Name: Mary **Last Name:** Jane

Books:

☒ **The Alchemist:** — Paulo Coelho Delete Book

Add a New Book

Add Book

Delete Member

Enter a New Member

Add Member

```
[{"_id": "621c719556780a03e8ddb551", "name": "Mary", "numberId": 123456789, "lastName": "Jane", "books": [{"title": "The Alchemist", "author": "Paulo Coelho"}]}
```

URL to GitHub Repository:

https://github.com/JoanaBarao7/React_Week3