



Web App Design with React Week 15 Coding Assignment

Points possible: 75

URL to GitHub Repository: <https://github.com/dmoylan1/week15Project.git>

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

App.js

```
JS App.js M X JS team.js U JS index.js M JS new-player-form.js U
src > JS App.js > App > addPlayer
1  import React from "react";
2  import './App.css';
3  import Team from "../team";
4
5  const TEAM_ENDPOINT = 'https://631be1534fa7d3264ca3334f.mockapi.io/teams_api/team';
6
7  export default class App extends React.Component {
8    constructor(props) {
9      super(props);
10     this.addPlayer = this.addPlayer.bind(this);
11     this.deletePlayer = this.deletePlayer.bind(this);
12   }
13
14   render() {
15     const teams = this.state
16     ? this.state.teams.map((team, index) =>
17       <Team
18         key={index}
19         data={team}
20         addPlayer = {this.addPlayer}
21         deletePlayer = {this.deletePlayer} />)
22     : null;
23     return (
24       <div>
25         {teams}
26       </div>
27     );
28   }
29
30   componentDidMount() {
31     fetch(TEAM_ENDPOINT)
32       .then(res => res.json())
33       .then(data => {
34         this.setState({
```



PROMINEO TECH

JS App.js M X JS team.js U X JS index.js M JS new-player-form.js U

src > JS App.js > App > addPlayer

```
35     teams:data
36   });
37 });
38 }
39
40 deletePlayer(e, team, player) {
41   const index = team.players.indexOf(player);
42   team.players.splice(index, 1);
43   updateTeam(team)
44     .then(() => {
45     this.setState(state => {
46       for (let t of state.teams) {
47         if (t._id === team._id) {
48           let t = team;
49           break;
50         }
51       }
52       return state;
53     });
54   });
55   e.preventDefault();
56 }
57
58 addPlayer(e, team, player) {
59   team.players.push(player)
60   updateTeam(team)
61     .then(() => {
62     this.setState(state => {
63       for (let t of state.teams) {
64         if (t._id === team._id) {
65           let t = team;
66           break;
67         }
68       }
69     })
70   })
71 }
```



PROMINEO TECH

```
JS App.js M X JS team.js U JS index.js M JS new-player-form.js U
src > JS App.js > App > addPlayer
68
69     return state;
70 });
71 });
72 e.preventDefault();
73 }
74 }
75
76 function updateTeam(team) {
77     return fetch(`${TEAM_ENDPOINT}/${team._id}`, {
78         method: 'PUT',
79         headers: {
80             'Content-Type': 'application/json'
81         },
82         body: JSON.stringify(team)
83     });
84 }
85
86
87
88
```



PROMINEO TECH

Team.js

```
JS App.js M    JS team.js U X    JS index.js M    JS new-player-form.js U
src > JS team.js > Team > render
1  import React from "react";
2  import NewPlayerForm from "../new-player-form";
3
4  export default class Team extends React.Component {
5    render() {
6      const players = this.props.data.players
7        ? this.props.data.players.map((player, index) =>
8          <li key={index}>
9            {player.name} Position: {player.position}
10           <button onClick={e =>
11             this.props.deletePlayer(e, this.props.data, player)
12           }>Delete</button>
13         </li>)
14      : null;
15      return (
16        <div>
17          <h1>{this.props.data.name}</h1>
18          <ul>
19            {players}
20          </ul>
21          <NewPlayerForm
22            addPlayer={this.props.addPlayer} data={this.props.data} />
23        </div>
24      );
25    }
26  }
```



PROMINEO TECH

New-player-form.js

```
JS App.js M X JS team.js U JS index.js M JS new-player-form.js U X
src > JS new-player-form.js > NewPlayerForm > handleClick > name
1 import React from "react";
2
3 export default class NewPlayerForm extends React.Component {
4   constructor(props) {
5     super(props);
6     this.state = {
7       nameValue: '',
8       positionValue: ''
9     }
10    this.handleChange = this.handleChange.bind(this);
11    this.handlePositionChange = this.handlePositionChange.bind(this);
12    this.handleClick = this.handleClick.bind(this);
13  }
14
15  handleChange(e) {
16    this.setState({nameValue: e.target.value});
17  }
18
19  handlePositionChange(e) {
20    this.setState({positionValue: e.target.value});
21  }
22
23  handleClick(e) {
24    this.props.addPlayer(e, this.props.data,
25      [{name: this.state.nameValue, position: this.state.positionValue}]);
26    this.setState({nameValue: '', positionValue: ''});
27  }
28
29  render() {
30    return (
31      <div>
32        <input type="text" placeholder="Name" onChange={this.handleChange} value={this.state.nameValue} />
33        <input type="text" placeholder="Position" onChange={this.handlePositionChange} value={this.state.positionValue} />
34        <button onClick={this.handleClick}>Add Player</button>
35      </div>
36    )
37  }
38 }
39 }
```

Screenshots of Running Application:



PROMINEO TECH

Browser tabs: dmo | CRUI | mail | F X | Cruc | moc | JSO | +

Address bar: localhost:3000

Bookmarks: sau29.org | SAU 29 | AESOP | KHS | PowerTeacher

Red Sox

Name	Position	Add Player
------	----------	------------

Yankees

Name	Position	Add Player
------	----------	------------

Orioles

Name	Position	Add Player
------	----------	------------

```
▼ Local
  ▼ Exception: TypeError: Cannot read properties of undefined (reading 'push')
    message: "Cannot read properties of undefined (reading 'push')"
    stack: "TypeError: Cannot read properties of undefined (reading 'push')
      ► [[Prototype]]: Error
      ► this: App
      ► e: SyntheticBaseEvent {_reactName: 'onClick', _targetInst: null, type:
      ► player: {name: 'David Ortiz', position: 'DH'}
      ► team: {name: 'Red Sox', id: 'NaN'}}
      ► Closure (./src/App.js)
      ► Closure
```

I can add a player, but cannot get it to display. Error is 'cannot read properties of undefined (reading 'push')