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:

- 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:

Coding Assignment > houses-app > src > JS App.js > ...

```
1  import React, { Component } from 'react';
2  import logo from './logo.svg';
3  import './App.css';
4  import { HousesList } from './Components/HousesList';
5
6  class App extends Component {
7    render() {
8        return (
9            <div>
10               <HousesApi props={{test: data}} />
11           </div>
12       )
13   }
14  }
15
16  |
```

Coding Assignment > houses-app > src > Components > JS House.js > [∅] House > [∅] deleteRoom > [∅] updatedHouse

```
1   import React from 'react';
2
3   export const House = (props) => {
4       const { house, updateHouse } = props;
5
6       const deleteRoom = (roomId) => {
7           const updatedHouse = {
8               ...house,
9               rooms: house.room.filter((x) => x._id !==roomId)
10          };
11
12          updateHouse(updatedHouse);
13      }
14
15      const addNewRoom = (room) => updateHouse({...house, rooms: [...house.rooms, room]});
16
17      const rooms = () => (
18          <ul>
19              {house.rooms.map((room, index) => (
20                  <li key={index}>
21                      <label>{`${room.name} Area: ${room.area}`}</label>
22                      <button onclick={(e) => deleteRoom(room._id)} Delete</button>
23                  </li>
24              ))}
25          </ul>
26      );
27
28      return (
29          <div>
30              <h2>{house.name}</h2>
31              {
32                  rooms({ rooms, houseId: house._id, deleteRoom})
33              }
34              <NewRoom addNewRoom={addNewRoom} />
35          </div>
36      );
37  };
38
```

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```
JS HousesApi.js U        JS HousesList.js U ×        JS House.js U        JS App.js M

Coding Assignment > houses-app > src > Components > JS HousesList.js > ⚛ HousesList > ⚙ render
 1    import React from "react";
 2    import { House } from './House';
 3    import { HousesApi } from "./HousesApi.js";
 4
 5    export class HousesList extends React.Component {
 6        state = {
 7            houses = []
 8        };
 9
10        componentDidMount() {
11            this.fetchHouses();
12        };
13
14        fetchHouses  = async () => {
15            const houses = await HousesApi.get();
16            this.setState({ houses });
17        };
18
19        updateHouse = async (updatedHouse) => {
20            await HousesApi.put(updatedHouse);
21            this.fetchHouses();
22        };
23
24        render() {
25            return (
26                <div className="house-list">
27                {this.state.houses.map((house) => (
28                    <House
29                        house={house}
30                        key={house._id}
31                        updateHouse={this.updateHouse}
32                    />
33                ))}
34                </div>
35            )
36        }
37    }
38
39
```

```
JS HousesApi.js U ×        JS HousesList.js U        JS House.js U        JS App.js M

Coding Assignment > houses-app > src > Components > JS HousesApi.js > ⚛ HousesApi > ⚙ get
 1    const HOUSES_ENDPOINT = "https://crudcrud.com/api/682391a831994c47aa3b7e8fbaf27f4a";
 2
 3    class HousesApi {
 4        get = async ()  => {
 5            try {
 6                const resp = await fetch(HOUSES_ENDPOINT);
 7                const data = await resp.json();
 8                return data;
 9            } catch(e) {
10                console.log("There's an error.", e);
11            }
12        }
13
14        put = async (house) => {
15            try {
16                const resp = await fetch(`${HOUSES_ENDPOINT}/${house._api}`, {
17                    method: 'PUT',
18                    headers: {
19                     'Content-Type': 'application/json'
20                    },
21                    body: JSON.stringify(house)
22                });
23                return await resp.json();
24            } catch(e) {
25                console.log("Houses not updating correctly", e);
26            }
27        }
28    }
29
30    export const HousesApi = new HousesApi();
31
```

Screenshots of Running Application:

I was unsure how to go about correcting my mistakes for this assignment as our class was cancelled this week and needs to be rescheduled due to the instructor experiencing technical difficulties.

URL to GitHub Repository:

https://github.com/MonicaHunter0812/reactweek3assignment