

# Web App Design with React Week 15-Ayushjav- Coding Assignment

Points possible: 75

#### **URL to GitHub Repository:**

**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:** 

Components/House.js



```
1 import React from "react"; 6.9k (gzipped: 2.7k)
   import { NewRoomForm } from "./NewRoomForm";
   export const House = props => {
     const { house, updateHouse } = props;
     const deleteRoom = roomId => {
        rooms: house.rooms.filter(x => x._id !== roomId),
       updateHouse(updatedHouse);
     //new method to add a room
     const addNewRoom = room =>
       updateHouse({ ...house, rooms: [...house.rooms, room] });
     const checkRoomName = room => {
      console.log("checkRoomName", room);
       if (room === null || room === "") {
        return room.name;
     const checkRoomArea = room => {
        return room.area:
     const rooms = () => (
       {house.rooms.map((room, index) => (
           {console.log(house.rooms)}
             <label className='room'>{`${checkRoomName(room)}`}</label> <br />
             <label className='area'>
              {`Area: ${checkRoomArea(room)} square feet`}
```

Components/HouseList.js



```
IS HousesList.js X
src > components > JS HousesList.js > ...
      import React from "react"; 6.9k (gzipped: 2.7k)
       import { House } from "./House";
       import { houseApi, housesApi } from "../rest/HousesApi";
       import { NewHouse } from "./NewHouse";
      export class HousesList extends React.Component {
         state = {
           houses: [],
         componentDidMount() {
          this.fetchHouses();
         fetchHouses = async () => {
           const houses = await housesApi.get();
           this.setState({ houses });
         updateHouse = async updatedHouse => {
           await housesApi.put(updatedHouse);
          this.fetchHouses();
         render() {
          return (
             <div className='houselistmain'>
               <div className='newhousearea'>
                <NewHouse />
               <div className='house-list'>
                 <h2> List of home</h2>
                 {this.state.houses.map(house => (
                     house={house}
                     key={house. id}
                     updateHouse={this.updateHouse}
```

#### Components/Navbar.js

```
Navbar.js X
src > components > JS Navbar.js > ...
      import React, { Component } from "react"; 6.9k (gzipped: 2.7k)
     export default class Navbar extends Component {
       render() {
         return (
           <nav className='navbar navbar-expand-lg'>
             <div className='container-fluid'>
               <a className='navbar-brand' href='#'>
                 SunScreen Realty LLC
               </a>
               <button
                 className='navbar-toggler'
                 type='button'
                 data-bs-toggle='collapse'
                 data-bs-target='#navbarNav'
                 aria-controls='navbarNav'
                 aria-expanded='false'
                 aria-label='Toggle navigation'
                 <span className='navbar-toggler-icon'></span>
               </button>
               <div className='collapse navbar-collapse' id='navbarNav'>
                 <a className='nav-link' aria-current='page' href='#'>
                     </a>
                   </div>
             </div>
         );
```

Components/Navbar.js



```
JS NewHouse.js X
src > components > JS NewHouse.js > ...
  1 vimport React, { useState } from "react"; 6.9k (gzipped: 2.7k)
      import { houseApi, housesApi } from "../rest/HousesApi";
      //functional component that takes props
  5 vexport const NewHouse = () => {
        const [name, setName] = useState("");
        const onSubmit = e => {
          e.preventDefault();
          console.log(name);
          housesApi.post(name);
           // e.target.value;
          setName("");
        //create the JSX for the return value
        return (
           <div className='newhouse'>
             <h2> Add a new House</h2>
             {/* creating a form */}
             <form onSubmit={onSubmit}>
               setting it to the target value*/}
                 type='text'
                 placeholder='Name of your new house'
                 onChange={e => setName(e.target.value)}
                 value={name}
                 name={name}
               <button className='addRoom' type='submit'>
                 Add House
             </form>
          </div>
         );
```

Components/NewRoomForm.js

```
JS NewRoomForm.is X
src > components > JS NewRoomForm.js > ...
  1 import React, { useState } from "react"; 6.9k (gzipped: 2.7k)
      export const NewRoomForm = props => {
        const [area, setArea] = useState(undefined);
        const handleAreaInput = e => {
          //using parse to make sure it's an interger and round to 10
          const int = parseInt(e.target.value, 10);
          setArea(int >= 0 ? int : "");
        const onSubmit = e => {
          e.preventDefault();
          if (name && area) {
            //calling addNewRoom method and passing in an object with name and area
            props.addNewRoom({ name, area });
            setName("");
            setArea("");
            console.log("invalid input");
            <h5> Add a new room</h5>
            <form onSubmit={onSubmit}>
                type='text'
                placeholder='Room Name'
                onChange={e => setName(e.target.value)}
                value={name}
                type='text'
                placeholder='Area in square feet'
                onChange={handleAreaInput}
                value={area}
              <button className='addRoom' type='submit'>
                Add Room
```



Rest/HousesApi.js



```
HousesApi.js ×
     const HOUSES_ENDPOINT = "https://ancient-taiga-31359.herokuapp.com/api/houses";
     class HousesApi {
       get = async () => {
        //using a try/catch in case something goes wrong
           const data = await resp.json();
           if (data.length > 3) {
           data.reverse().length = 3;
           return data;
           console.log("Ooops, fetch is being a bitch", e);
       put = async house => {
           const resp = await fetch(`${HOUSES_ENDPOINT}/${house._id}`, {
             method: "PUT",
             headers: {
               "Content-Type": "application/json",
            body: JSON.stringify(house),
           return await resp.json();
           console.log("Ooops, looks like updating the houses has an issue", e);
       post = async housename => {
           const resp = await fetch(`${HOUSES_ENDPOINT}`, {
             method: "POST",
             headers: {
            body: JSON.stringify({ name: housename }),
           console.log("Ooops, looks like updating the houses has an issue", e);
     export const housesApi = new HousesApi();
```

### App.js

Index.css

```
padding: 0;
  box-sizing: border-box;
 font-family: Arial, Helvetica, sans-serif;
background: ☐#333;
 color: ■#93cb52;
background: ■#7ab436;
color: □#fff;
 display: flex;
 flex-direction: column;
 align-items: center;
 text-align: center;
 height: 80%;
 text-align: center;
  color: □#def50f;
 border-bottom: solid ■#24ac52;
 padding: 0.75rem 1.5rem;
width: 80%;
 max-width: 960px;
 margin: 1rem auto;
.newhouse {
 text-align: center;
 padding: 30px;
 color: ☐white;
 padding: 15px 0px;
 border-bottom: white solid;
 text-align: center;
.housename h3 {
 color: □rgb(101, 213, 22);
.housename-name h4 {
padding: 0px 30px;
 color: ■#e5e8e0;
```

**Screenshots of Running Application:** 





