Web App Design with React Week 15 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.

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Screenshots of Code:

src > JS App.js > App

```
import React from "react";
import Players from "./components/Players";

export default function App() {

  return (
    <div>
      <Players />
    </div>
  );
}
```

src > JS index.js > ...

```
import React from "react";
import ReactDOM from "react-dom/client";

import App from "./App";
import "../node_modules/bootstrap/dist/css/bootstrap.css";
import "./App.css";

function Header() {
  return (
    <h1 className="text-center">
      {"Top NBA Basketball Players in the History"}
    </h1>
  );
}

const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
  <React.StrictMode>
    <Header />
    <App />
  </React.StrictMode>
);
```

src > components > JS Players.js > UsingFetch > useEffect() callback

```
import React, { useEffect, useState } from "react";
import AddPlayer from "./AddPlayer";
import DeletePlayer from "./DeletePlayer";
import UpdatePlayer from "./UpdatePlayer";

const UsingFetch = () => {
  const [players, setPlayers] = useState([]);

  const fetchData = () => {
    fetch("https://crudcrud.com/api/6ff2dd20d6cf4b90ba07f581d6ef2468/players")
      .then((response) => {
        return response.json();
      })
      .then((data) => {
        setPlayers(data);
      });
  };

  useEffect(() => {
    fetchData();
  }, []);

  return (
    <div className="container text-center">
      <h2>List of Players:</h2>
      <ul>
        {players.map((player, index) => (
          <li key={index}>
            <b>{player.name}</b>{" "}
            <UpdatePlayer playerId={player._id} fetchData={fetchData} />
            <DeletePlayer playerId={player._id} fetchData={fetchData} />
            <hr></hr>
          </li>
        ))}
      </ul>
      <AddPlayer fetchData={fetchData} />
    </div>
  );
};

export default UsingFetch;
```

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src > components > JS UpdatePlayer.js > UpdatePlayer

```jsx
import React from "react";
import { useState } from "react";

export default function UpdatePlayer(props) {
  const URL =
    "https://crudcrud.com/api/6ff2dd20d6cf4b90ba07f581d6ef2468/players";
  const [editPlayer, setEditPlayer] = useState("");
  const updatePlayer = () => {
    console.log(props.playerId);
    fetch(`${URL}/${props.playerId}`, {
      method: "PUT",
      headers: {
        "Content-Type": "application/json",
      },
      body: JSON.stringify({
        name: editPlayer,
      }),
    }).then(() => {
      props.fetchData();
    });
  };

  return (
    <div>
      <input
        value={editPlayer}
        onChange={(event) => setEditPlayer(event.target.value)}
        placeholder="Update Player"
      ></input>
      <div>
        <button onClick={updatePlayer}>Update Player</button>
      </div>
    </div>
  );
}
```

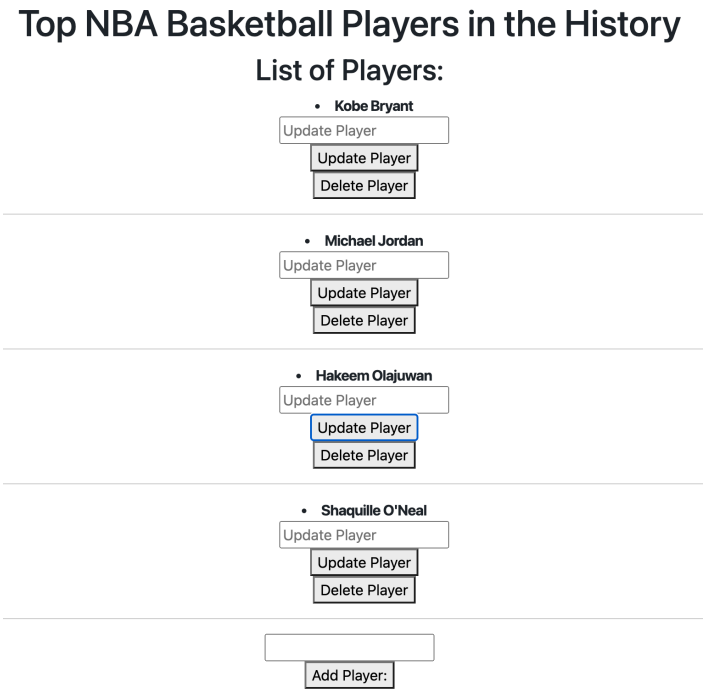
src > components > JS DeletePlayer.js > DeletePlayer > deletePlayer

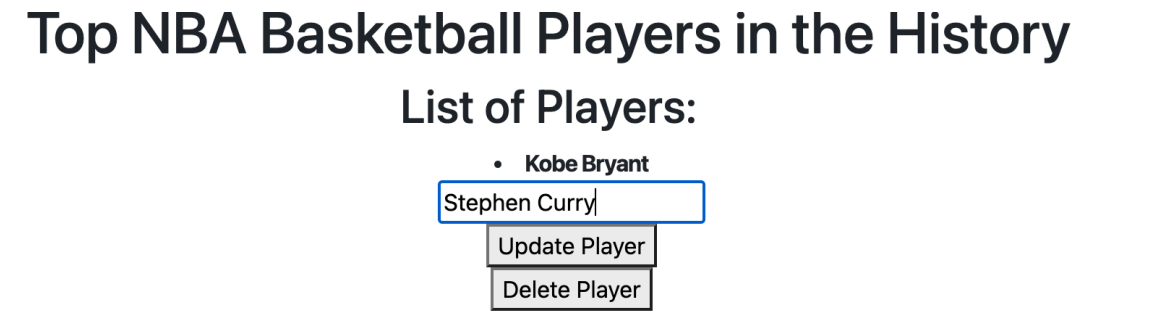
```jsx
import React from "react";

export default function DeletePlayer(props) {
  const URL =
    "https://crudcrud.com/api/6ff2dd20d6cf4b90ba07f581d6ef2468/players";

  const deletePlayer = () => {
    console.log(props.playerId);
    fetch(`${URL}/${props.playerId}`, {
      method: "DELETE",
      headers: {
        "Content-Type": "application/json",
      },
    }).then(() => {
      props.fetchData();
    });
  };

  return (
    <div>
      <button onClick={deletePlayer}>Delete Player</button>
    </div>
  );
}
```

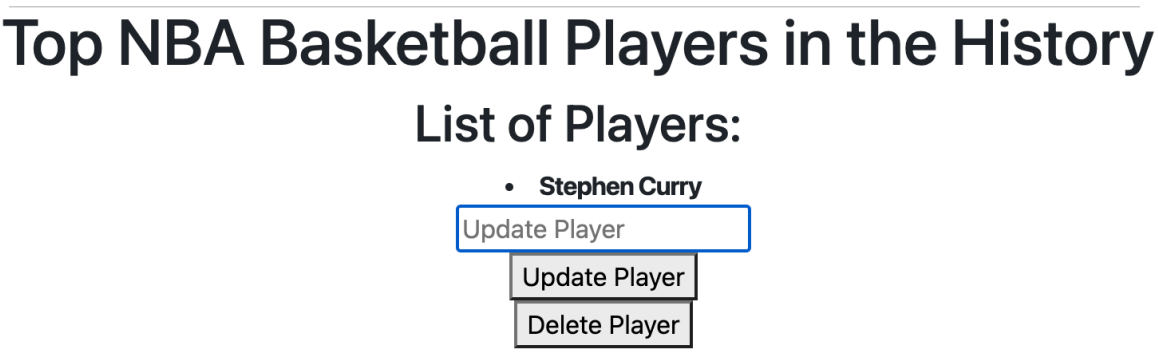
src > components > JS AddPlayer.js > AddPlayer

```jsx
import React from "react";
import { useState } from "react";

export default function AddPlayer(props) {
  const [addPlayer, setAddPlayer] = useState("");
  const createPlayer = (event) => {
    event.preventDefault();
    const URL =
      "https://crudcrud.com/api/6ff2dd20d6cf4b90ba07f581d6ef2468/players";

    fetch(URL, {
      method: "POST",
      headers: {
        "Content-Type": "application/json",
      },
      body: JSON.stringify({
        name: addPlayer,
      }),
    }).then(() => {
      props.fetchData();
    });
  };

  return (
    <div className="text-center">
      <input
        value={addPlayer}
        onChange={(event) => setAddPlayer(event.target.value)}
      ></input>
      <div>
        <button onClick={createPlayer}>Add Player:</button>
      </div>
    </div>
  );
}
```

Screenshots of Running Application:







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URL to GitHub Repository:

https://github.com/KyoAzumaya/nba-app.git