

Name :

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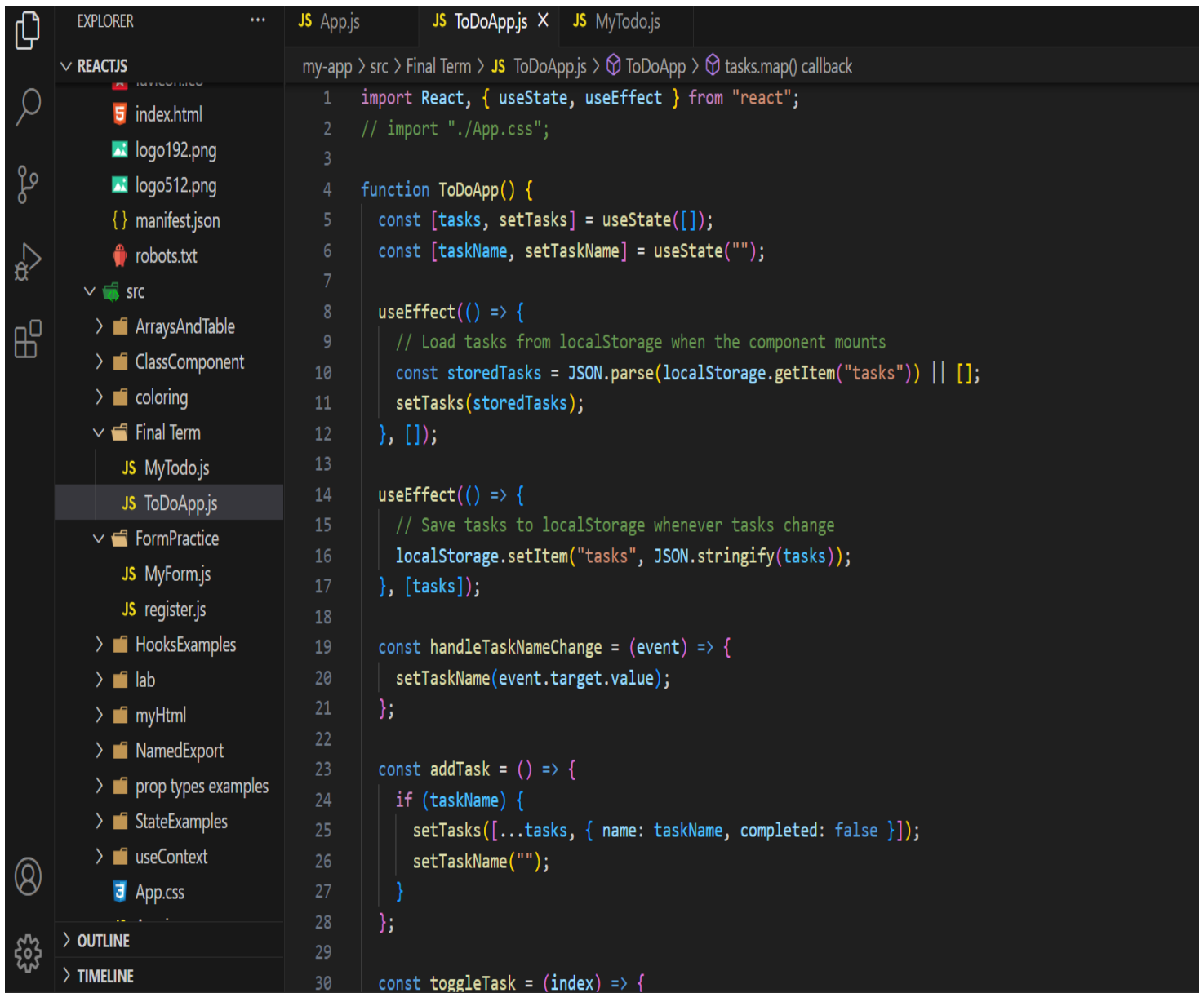
Role :

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41101-8142243-7

Final Term



The screenshot displays a VS Code editor interface. On the left, the 'EXPLORER' sidebar shows a project structure for 'REACTJS'. The 'Final Term' folder is expanded, revealing files like 'App.css', 'index.html', and 'manifest.json', along with several subfolders including 'ArraysAndTable', 'ClassComponent', 'coloring', 'FormPractice', 'HooksExamples', 'lab', 'myHtml', 'NamedExport', 'prop types examples', 'StateExamples', and 'useContext'. The 'ToDoApp.js' file is selected and highlighted. The main editor area shows the code for 'ToDoApp.js', which includes imports for React, useState, and useEffect. The code defines a 'ToDoApp' function that initializes state for 'tasks' and 'taskName'. It uses 'useEffect' to load tasks from 'localStorage' on component mount and to save tasks whenever they change. It also defines a 'handleTaskNameChange' function to update 'taskName' and an 'addTask' function to add new tasks to the 'tasks' array. The code is as follows:

```
1 import React, { useState, useEffect } from "react";
2 // import "./App.css";
3
4 function ToDoApp() {
5   const [tasks, setTasks] = useState([]);
6   const [taskName, setTaskName] = useState("");
7
8   useEffect(() => {
9     // Load tasks from localStorage when the component mounts
10    const storedTasks = JSON.parse(localStorage.getItem("tasks")) || [];
11    setTasks(storedTasks);
12  }, []);
13
14  useEffect(() => {
15    // Save tasks to localStorage whenever tasks change
16    localStorage.setItem("tasks", JSON.stringify(tasks));
17  }, [tasks]);
18
19  const handleTaskNameChange = (event) => {
20    setTaskName(event.target.value);
21  };
22
23  const addTask = () => {
24    if (taskName) {
25      setTasks([...tasks, { name: taskName, completed: false }]);
26      setTaskName("");
27    }
28  };
29
30  const toggleTask = (index) => {
```

PLORER

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Add

</button>

</div>

</form>

</div>

<div className="container bg-light p-4 mt-4 text-dark">

 {tasks.map((task, index) => (

 <div className="container p-4">

);

}

export default ToDoApp;

EXPLORER

my-app > src > Final Term > JS ToDoApp.js > tasks.map() callback

```
29
30
31 const toggleTask = (index) => {
32   const updatedTasks = [...tasks];
33   updatedTasks[index].completed = !updatedTasks[index].completed;
34   setTasks(updatedTasks);
35 };
36
37 const deleteTask = (index) => {
38   const updatedTasks = tasks.filter((_, i) => i !== index);
39   setTasks(updatedTasks);
40 };
41
42 return (
43   <div className="container text-center bg-dark text-light p-4 mt-4">
44     <h1>To-Do List</h1>
45     <div>
46       <form action="" className="form-group">
47         <input
48           type="text"
49           placeholder="Enter a new task"
50           value={taskName}
51           className="form-control"
52           onChange={handleTaskNameChange}
53         />
54         <div className="container text-center mt-4">
55           <button onClick={addTask} className="btn btn-primary">
56             Add
57           </button>
58         </div>
59       </form>
60     </div>
61   </div>
62 );
```

File Edit Selection View Go Run ...

EXPLORER

my-app > src > JS App.js > App

```
1 import logo from "../logo.svg";
2 // import "../App.css";
3 import { Component, createContext } from "react";
4 import Table from "../ArraysAndTable/Table";
5 import { List } from "../lab/list";
6 import MySidebar from "../myHtml/Sidebar";
7 import CompA from "../useContext/CompA";
8 import MyForm from "../FormPractice/MyForm";
9 import { Register } from "../FormPractice/register";
10 import { MyData } from "../ArraysAndTable/MyData";
11 import { UseStateExample } from "../HooksExamples/UseStateExample";
12 import { Demo } from "../HooksExamples/demo";
13 import ToDoApp from "../Final Term/ToDoApp";
14
15 // import { DemoApp2 } from "../NamedExport/DemoApp";
16
17 var name = "ali";
18
19 export var myNameContext = createContext();
20
21 function App() {
22   return (
23     <>
24       <MyForm />
25       <Register />
26       <ToDoApp />
27     </>
28   );
29 }
30 export default App;
```

To-Do List

Add

☐ sas

Delete