REACT PROJECT ->

Step 1: Set Up the React Environment

You can set up a new React application using Create React App. Open your terminal and run:

npx create-react-app todo-list

cd todo-list

npm start

Step 2: Create the Todo List Application

1. App Component (App.js):
    - This will be the main component that holds the state and renders the other components.

```
import React, { useState } from 'react';
import TodoForm from './TodoForm';
import TodoList from './TodoList';
import './App.css';

function App() {
 const [todos, setTodos] = useState([]);

 const addTodo = (text) => {
  const newTodos = [...todos, { text, completed: false }];
  setTodos(newTodos);
 };

 const toggleTodo = (index) => {
  const newTodos = [...todos];
  newTodos[index].completed = !newTodos[index].completed;
  setTodos(newTodos);
 };
```

```
  const deleteTodo = (index) => {
    const newTodos = todos.filter((todo, i) => i !== index);
    setTodos(newTodos);
  };

  return (
    <div className="app">
      <h1>Todo List</h1>
      <TodoForm addTodo={addTodo} />
      <TodoList todos={todos} toggleTodo={toggleTodo} deleteTodo={deleteTodo} />
    </div>
  );
}

export default App;
```

TodoForm Component (TodoForm.js):

- This component contains the form to add new todos.

```
import React, { useState } from 'react';

function TodoForm({ addTodo }) {
  const [value, setValue] = useState('');

  const handleSubmit = (e) => {
    e.preventDefault();
    if (!value) return;
    addTodo(value);
    setValue('');
  };
```

```
  return (
    <form onSubmit={handleSubmit}>
      <input
        type="text"
        className="input"
        value={value}
        onChange={(e) => setValue(e.target.value)}
        placeholder="Add a new todo"
      />
      <button type="submit">Add</button>
    </form>
  );
}

export default TodoForm;
```

TodoList Component (TodoList.js):

- This component renders the list of todos.

```
import React from 'react';

function TodoList({ todos, toggleTodo, deleteTodo }) {
  return (
    <div className="todo-list">
      {todos.map((todo, index) => (
        <div key={index} className={`todo ${todo.completed ? 'completed' : ''}`}>
          <span onClick={() => toggleTodo(index)}>{todo.text}</span>
          <button onClick={() => deleteTodo(index)}>Delete</button>
        </div>
      ))}
    </div>
  );
```

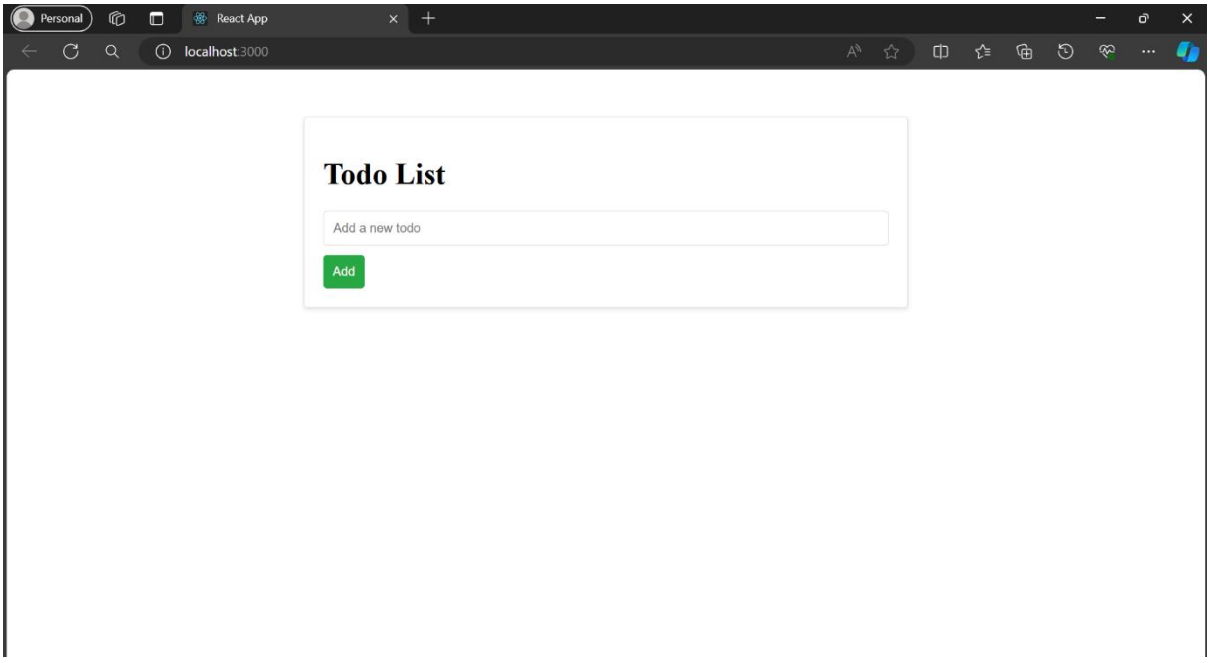
}

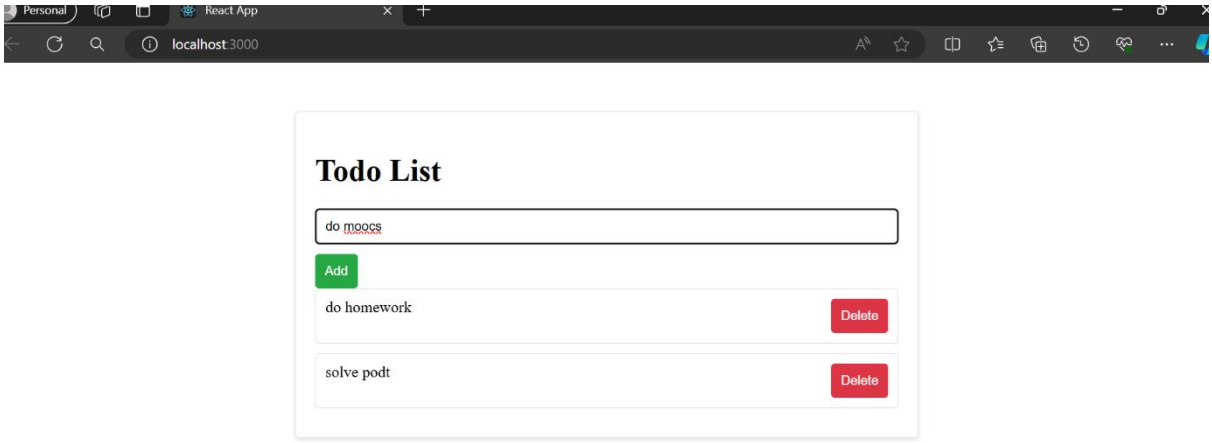
export default TodoList;

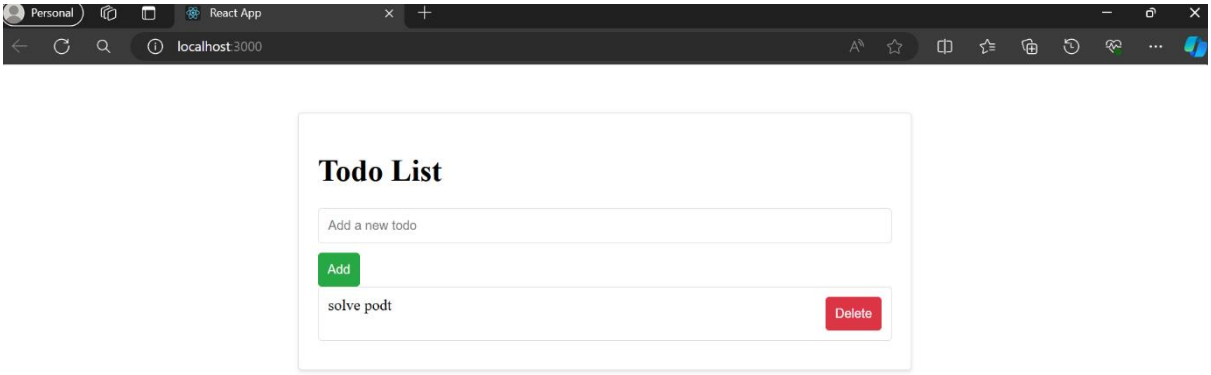
Step3 -> Run the Application

npm start

images->




Personal
React App
localhost:3000
Todo List
do moocs
Add
do homework
Delete
solve podt
Delete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