

LAB EX – 5 – React App

S Pushkala

21011102075

App.css

```
.App {
  text-align: center;
}

.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

.App-link {
  color: #61dafb;
}

@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}
```

App.js

```
import React, { Component } from 'react';
import TaskList from './TaskList';
import './Task.css';

class App extends Component {
  constructor() {
    super();
    this.state = {
      tasks: [],
      newTask: '',
    };
  }

  addTask = () => {
    if (this.state.newTask.trim() === '') return;
    this.setState((prevState) => ({
      tasks: [...prevState.tasks, this.state.newTask],
      newTask: '',
    }));
  };

  removeTask = (index) => {
    const newTasks = [...this.state.tasks];
    newTasks.splice(index, 1);
    this.setState({ tasks: newTasks });
  };

  handleInputChange = (event) => {
    this.setState({ newTask: event.target.value });
  };

  render() {
    return (
      <div>
        <h1>Task List</h1>
        <input
          type="text"
          placeholder="Add a new task"
          value={this.state.newTask}
          onChange={this.handleInputChange}
        />
        <button onClick={this.addTask}>Add</button>
        <TaskList tasks={this.state.tasks} removeTask={this.removeTask} />
      </div>
    );
  }
}
```

```
export default App;
```

App.test.js

```
import { render, screen } from '@testing-library/react';
import App from './App';

test('renders learn react link', () => {
  render(<App />);
  const linkElement = screen.getByText(/learn react/i);
  expect(linkElement).toBeInTheDocument();
});
```

Index.css

```
body {
  margin: 0;
  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto',
'Oxygen',
  'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
  sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}

code {
  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',
  monospace;
}
```

Index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';
import './index.css';

ReactDOM.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
  document.getElementById('root')
);
```

Task.css

```
/* Styling for App component */
.App {
  text-align: center;
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  background-color: violet;
  padding: 20px;
}

/* Styling for the header */
h1 {
  color: purple;
  text-align: center;
  font-size: 36px;
  margin-bottom: 20px;
}

/* Styling for the input and button */
input[type="text"] {
  padding: 10px;
  margin-right: 10px;
  margin-left: 600px;
  margin-top: 100px;
  border: 1px solid black;
  border-radius: 10px;
  font-size: 18px;
}

button {
  padding: 10px 20px;
  background-color: purple;
  color: rgb(229, 158, 229);
  border: none;
  border-radius: 10px;
  font-size: 18px;
  cursor: pointer;
  transition: background-color 0.2s ease-in-out;
}

button:hover {
  background-color: rgb(199, 13, 199);
}

/* Styling for the task list */
ul {
  list-style: none;
  padding: 0;
}
```

```

/* Styling for individual tasks */
li {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 10px;
  margin: 10px 0;
  background-color: #ffffff;
  border: 1px solid #ddd;
  border-radius: 4px;
  box-shadow: 0px 2px 4px rgba(0, 0, 0, 0.1);
  transition: background-color 0.2s ease-in-out;
}

li:hover {
  background-color: #f9f9f9;
}

/* Styling for completed tasks */
.completed {
  text-decoration: line-through;
  background-color: #cfcfcf;
  color: #666;
}

/* Logo Placeholder */
.logo {
  font-size: 48px;
  color: #007bff;
  margin-bottom: 20px;
  /* Add your logo image as a background here */
  /* background-image: url('path-to-your-image.png'); */
  /* background-size: contain; */
  /* background-repeat: no-repeat; */
  /* background-position: center; */
}

```

Task.js

```

import React from 'react';
import './Task.css';

const Task = ({ task, removeTask }) => {
  return (
    <li>
      {task}
    </li>
  )
}

```

```

        <button onClick={removeTask}>Remove</button>
      </li>
    );
  };

export default Task;

```

TaskList.js

```

import React from 'react';
import Task from './Task';
import './Task.css';

const TaskList = ({ tasks, removeTask }) => {
  return (
    <ul>
      {tasks.map((task, index) => (
        <Task key={index} task={task} removeTask={() => removeTask(index)} />
      ))}
    </ul>
  );
};

export default TaskList;

```

Output:

Task List

hi	<input type="button" value="Remove"/>
hello	<input type="button" value="Remove"/>