

EXPERIMENT-12

Create a TODO application in react with necessary components.

Aim: Create a simple React TODO app with basic functionality (add, delete tasks).

Description (Steps):

1. Setup the React App:

- Create a new React app using Create React App:

```
npx create-react-app todo-app
```

```
cd todo-app
```

2. Install Bootstrap:

- Install Bootstrap for styling:

```
npm install bootstrap
```

- Import Bootstrap in src/index.js:

```
import 'bootstrap/dist/css/bootstrap.min.css';
```

todo-app/src/App.js:

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

```
const App = () => {
```

```
  const [task, setTask] = useState("");
```

```
  const [tasks, setTasks] = useState([]);
```

```
  const addTask = () => {
```

```
    if (task) setTasks([...tasks, task]);
```

```
    setTask("");
```

```
  };
```

```
  const deleteTask = (index) => {
```

```
    setTasks(tasks.filter((_, i) => i !== index));
```

```
  };
```

```
  return (
```

```
    <div className="container py-4">
```

```
      <h1 className="text-center mb-4">TODO App</h1>
```

```
      <div className="d-flex mb-3">
```

```

    <input
      type="text"
      className="form-control mr-2"
      value={task}
      onChange={(e) => setTask(e.target.value)}
      placeholder="Enter a new task"
    />

    <button className="btn btn-primary" onClick={addTask}>Add</button>
  </div>

  <ul className="list-group">
    {tasks.map((task, index) => (
      <li key={index} className="list-group-item d-flex justify-content-between align-items-center">
        {task}
        <button className="btn btn-danger btn-sm" onClick={() =>
deleteTask(index)}>Delete</button>
      </li>
    ))}
  </ul>
</div>

);
};

export default App;

```

OUTPUT:

