

Structure:

/todo-app

|-- app.js

|-- /views

 |-- index.ejs

|-- /public

 |-- style.css

Coding App.js :

```
Const express = require('express');
```

```
Const bodyParser = require('body-parser');
```

```
Const app = express();
```

```
App.set('view engine', 'ejs'); // Set EJS as the templating engine
```

```
App.use(bodyParser.urlencoded({ extended: true }));
```

```
App.use(express.static('public')); // Serve static files
```

```
// Array to hold tasks
```

```
Let tasks = [];
```

```
// Route: Display the homepage
```

```
App.get('/', (req, res) => {
```

```
    Res.render('index', { tasks });
```

```
});
```

```
// Route: Add a new task
```

```
App.post('/add-task', (req, res) => {
```

```
    Const task = { title: req.body.task, completed: false };
```

```
    Tasks.push(task);  
    Res.redirect('/');  
  });
```

// Route: Mark a task as complete

```
App.post('/complete-task', (req, res) => {  
  Const taskIndex = req.body.taskIndex;  
  Tasks[taskIndex].completed = true;  
  Res.redirect('/');  
});
```

// Start the server

```
Const PORT = 3000;  
App.listen(PORT, () => console.log(`Server running on http://localhost:\${PORT}`));
```

Coding Template:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Todo App</title>  
  <link rel="stylesheet" href="/style.css">  
</head>  
<body>  
  <div class="container">  
    <h1>Todo App</h1>
```

<!--Add Task Form →

```
<form action="/add-task" method="POST">
```

```
  <input type="text" name="task" placeholder="Enter a new task" required>
```

```
  <button type="submit">Add Task</button>
```

```
</form>
```

<!--Task List →

```
<ul>
```

```
  <% tasks.forEach((task, index) => { %>
```

```
    <li class="<%= task.completed ? 'completed' : '' %>">
```

```
      <span><%= task.title %></span>
```

```
      <% if (!task.completed) { %>
```

```
        <form action="/complete-task" method="POST" style="display: inline;">
```

```
          <input type="hidden" name="taskIndex" value="<%= index %>">
```

```
          <button type="submit">Complete</button>
```

```
        </form>
```

```
      <% } %>
```

```
    </li>
```

```
  <% }); %>
```

```
</ul>
```

```
</div>
```

```
</body>
```

```
</html>
```

Coding Style sheet :

Body {

Font-family: Arial, sans-serif;

Margin: 0;

```
    Padding: 0;
    Background-color: #f4f4f9;
}
```

```
.container {
    Width: 50%;
    Margin: auto;
    Margin-top: 50px;
    Padding: 20px;
    Background: #fff;
    Box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);
    Border-radius: 8px;
}
```

```
H1 {
    Text-align: center;
}
```

```
Form {
    Margin-bottom: 20px;
}
```

```
Input[type="text"] {
    Width: 80%;
    Padding: 10px;
    Font-size: 16px;
}
```

```
Button {  
    Padding: 10px;  
    Font-size: 16px;  
    Background-color: #007bff;  
    Color: white;  
    Border: none;  
    Border-radius: 4px;  
    Cursor: pointer;  
}
```

```
Button:hover {  
    Background-color: #0056b3;  
}
```

```
UI {  
    List-style: none;  
    Padding: 0;  
}
```

```
Li {  
    Padding: 10px;  
    Margin: 5px 0;  
    Background: #f9f9f9;  
    Border: 1px solid #ddd;  
    Display: flex;  
    Justify-content: space-between;
```

```
    Align-items: center;  
}
```

```
li.completed span {  
    text-decoration: line-through;  
    color: gray;  
}
```

Output :

Todo App

[Enter a new task] [Add Task Button]

Todo App

[Enter a new task] [Add Task Button]

- Buy groceries [Complete Button]

Todo App

[Enter a new task] [Add Task Button]

- Buy groceries (gray text, struck-through)
-