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Create a Todo app 1. Add and complete a task on a single page 2. Uses the Express Framework

Step 1: Create the Project Directory

- 1. Open **Terminal**.
- 2. Navigate to the folder where you want to create your project:

cd ~/Documents

3. Create a folder named todo-app and navigate into it:

mkdir todo-app

cd todo-app

Step 2: Initialize the Project

1. Run the following command to create a basic package.json file:

npm init -y

Step 3: Create Project Files

You'll create three files: server.js, views/index.ejs, and public/style.css.

a. Create server.js

1. Create the file:

touch server.js

```
2. Open it in Visual Studio Code (if installed):
code server.js
Or use the built-in TextEdit:
open -e server.js
3. Add the following code to server.js and save:
const express = require("express");
const bodyParser = require("body-parser");
const app = express();
const port = 3000;
app.use(bodyParser.urlencoded({ extended: true }));
app.use(express.static("public"));
app.set("view engine", "ejs");
let tasks = [];
app.get("/", (req, res) => {
 res.render("index", { tasks });
});
app.post("/add", (req, res) => {
 const task = req.body.task.trim();
 if (task) {
```

```
tasks.push({ text: task, completed: false });
 }
 res.redirect("/");
});
app.post("/complete", (req, res) => {
 const taskIndex = parseInt(req.body.index);
 if (tasks[taskIndex]) {
  tasks[taskIndex].completed = true;
 }
 res.redirect("/");
});
app.listen(port, () => {
 console.log(`Todo app running at http://localhost:${port}`);
});
b. Create views/index.ejs
1. Create the folder views:
mkdir views
2. Create the file:
touch index.ejs
3. Open the file:
code index.ejs
Or:
open -e index.ejs
```

```
4. Add the following code and save:
<!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>
 <form action="/add" method="POST">
  <input type="text" name="task" placeholder="Enter a task" required>
  <button type="submit">Add</button>
 </form>
 ul>
  <% tasks.forEach((task, index) => { %>
   ">
    <span><%= task.text %></span>
    <% if (!task.completed) { %>
     <form action="/complete" method="POST" style="display: inline;">
      <input type="hidden" name="index" value="<%= index %>">
      <button type="submit">Complete</button>
     </form>
```

```
<% } else { %>
      <span>(Done)</span>
     <%}%>
    <% }) %>
  </div>
</body>
</html>
c. Create public/style.css
1. Create the folder public:
mkdir public
2. Create the file:
touch style.css
3. Open the file:
code style.css
Or:
open -e style.css
4. Add the following code and save:
body {
 font-family: Arial, sans-serif;
 background-color: #f9f9f9;
 margin: 0;
 padding: 0;
}
```

```
.container {
 max-width: 600px;
 margin: 50px auto;
 padding: 20px;
 background: #fff;
 border-radius: 8px;
 box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}
h1 {
 text-align: center;
 color: #333;
}
form {
 display: flex;
 justify-content: space-between;
 margin-bottom: 20px;
}
input[type="text"] {
 flex: 1;
 padding: 10px;
 border: 1px solid #ccc;
```

```
border-radius: 4px;
}
button {
 background-color: #007bff;
 color: #fff;
 border: none;
 padding: 10px 20px;
 border-radius: 4px;
 cursor: pointer;
}
ul {
 list-style: none;
 padding: 0;
}
li {
 padding: 10px;
 border-bottom: 1px solid #ddd;
}
li.completed span {
 text-decoration: line-through;
 color: #999;
```

Step 4: Run Your App

1. Start the server:

node server.js

2. Open your browser and visit:

http://localhost:3000

Output:

