**Front-End Job Simulation: To-Do List Application**

**Project Name: Interactive To-Do List Component**

**Internship Role:** Front-End Development Intern  
**Tech Stack:** HTML, CSS, JavaScript (No frameworks or libraries)

**Project Goal**

Create an interactive, browser-based to-do list application that allows users to manage daily tasks. This widget will form a key part of a productivity dashboard, offering users the ability to organize their tasks quickly and efficiently.

**Core Features to Implement**

You will build the following functionalities using only **vanilla HTML, CSS, and JavaScript**:

* **Add Task:** Users can enter a task and click "Add" to insert it into the list.
* **Edit Task:** Each task can be edited inline.
* **Delete Task:** Users can remove tasks from the list individually.
* **(Optional)** **Mark Complete:** Allow users to strike through completed tasks.

**UI Design Guidelines**

* Clean and simple layout using semantic HTML.
* Tasks should appear in **alternating colored rows** for better visibility.
* Buttons must be styled distinctly:
  + **Edit button:** Blue
  + **Delete button:** Red
* The task container should be **scrollable** when the list gets long.
* (Optional) Use icons or emojis for the edit and delete actions.

**Technical Requirements**

* Use **DOM methods** like document.getElementById() to access elements.
* Use addEventListener() for handling user events like button clicks.
* Create, update, and remove elements dynamically via JavaScript.
* Keep your JavaScript code **modular** using functions.
* Include **comments** in the script to explain important parts, especially the logic for editing and deleting tasks.

**Extra Features (Bonus - Optional)**

* Add a **"Clear All"** button to remove all tasks.
* Show a **task counter** (e.g., "3 tasks remaining").
* Allow pressing the **Enter key** to add tasks (instead of clicking the button).
* Use **icons or emojis** to make UI more intuitive.

**What You Need to Submit**

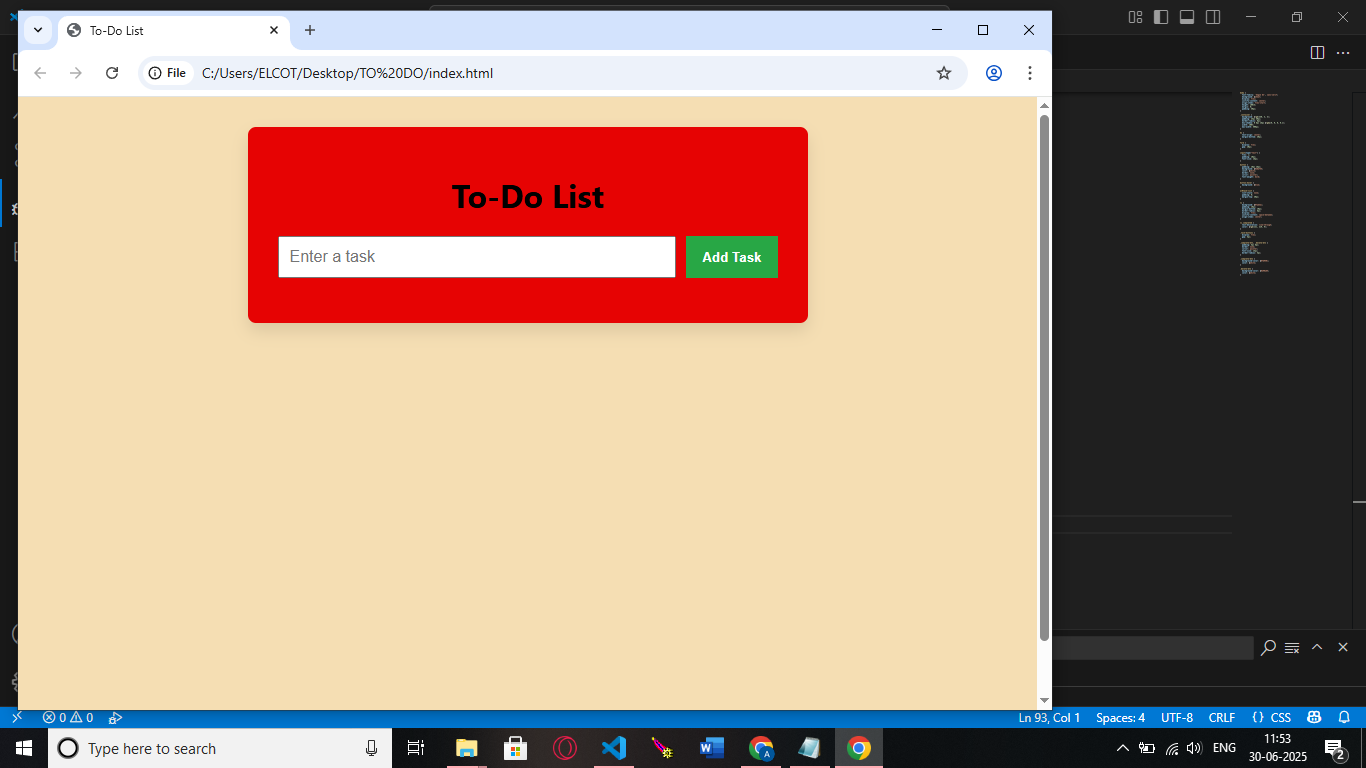
Make sure your project folder includes:

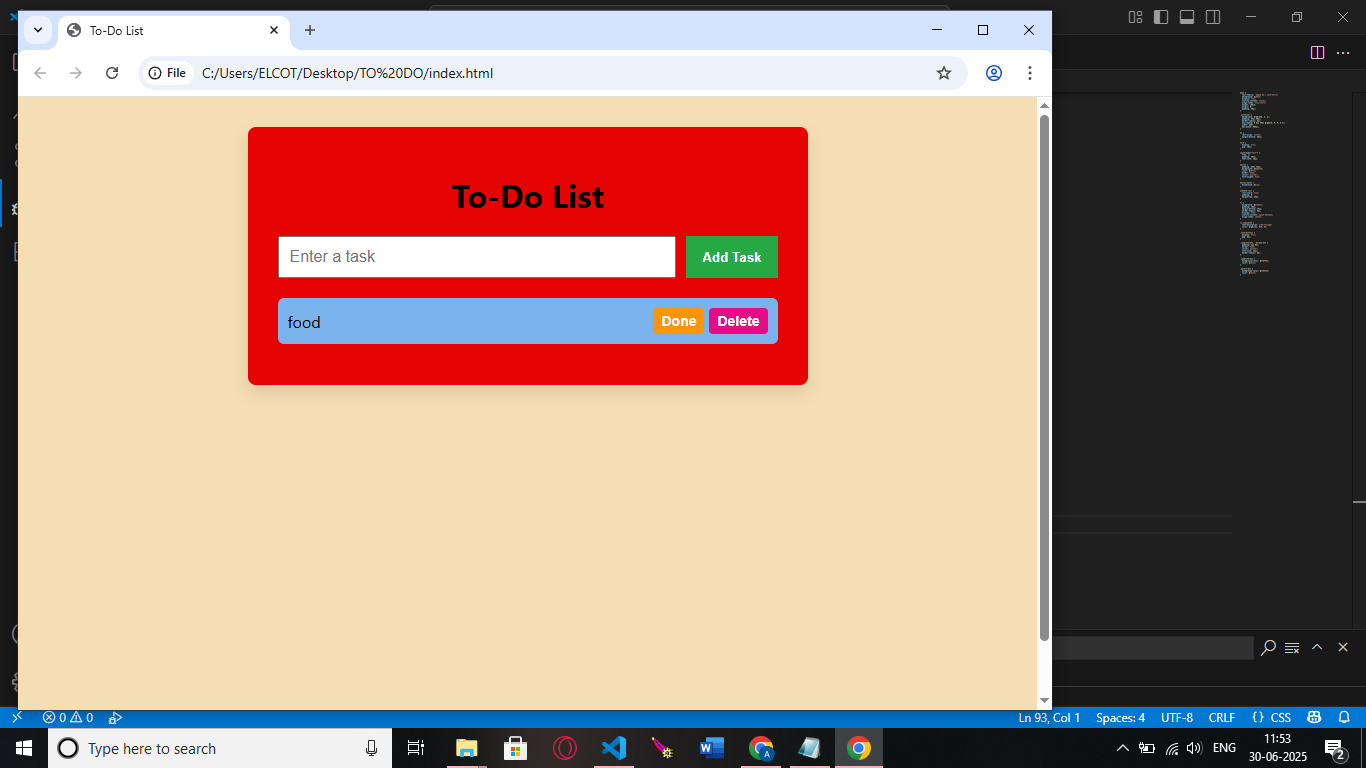
1. **index.html** — Contains the layout and structure of your to-do list.
2. **style.css** — CSS file for styling the list, buttons, and scroll behavior.
3. **script.js** — JavaScript code managing all dynamic interactions.

By completing this project, you'll gain hands-on knowledge of:

* Real-time DOM manipulation with JavaScript
* Handling user interactions with events
* Building responsive and scrollable interfaces
* Writing clean, organized, and functional front-end code

**Project:**

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