

# Internship Report – Frontend Dev

## Week 4: JavaScript Basics

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**Date: 18<sup>th</sup> July, 2025**

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**Internship Domain: Front-end Intern**

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**Task: JS - Mini Project: Interactive To-Do List or Calculator**

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### Task Overview: (Day5)

This mini project was part of my JavaScript learning module, where I was required to build a simple yet interactive To-Do List using HTML, CSS, and JavaScript. The project helped me apply basic JavaScript concepts in a real-world scenario to create a functional webpage.

### Objective:

The objective of this task was to:

- Build a user-friendly to-do list.
- Use basic JavaScript (functions, DOM manipulation, arrays) to handle user input.
- Improve the visual appearance using CSS.
- Strengthen foundational web development skills.

## Mini-Project: Interactive To-Do List:

The "**Interactive To-Do List**" allows users to **add daily tasks through an input field**. Each task is displayed with a number and a "Delete" button, making it easy to manage tasks. The design is styled using CSS to look clean and modern. It is fully interactive and runs directly in the browser without any complex logic.

### Concepts used:

1. **HTML Elements:** Used `<input>`, `<button>`, `<ul>`, and `<li>` to structure the task list and input interface.
2. **Basic JavaScript Functions:** `addTask()` and `deleteTask()` functions are used to add and remove tasks from the list.
3. **DOM Manipulation:** Accessed and modified HTML elements using `getElementById`, `innerHTML`, and `createElement`.
4. **Event Handling:** Added click events on buttons to perform actions like adding or deleting a task.
5. **Arrays (Basic):** Used a JavaScript array to store and manage the list of tasks in memory.
6. **String Methods:** `.trim()` was used to avoid adding empty or whitespace-only tasks.
7. **CSS Styling:** Styled the app with custom colors, padding, buttons, and shadows to enhance usability and appearance.

### How it works:

- **User types** a task into the **input box** provided on the webpage.
- User clicks the **“Add Task”** button, which triggers a JavaScript function to add the task to the list.
- The task appears below with a number and a **“Delete” button** for easy removal.

## Code:

```
project.html X
project.html > html > head > style > li span.number
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>My Stylish To-Do List</title>
5    <style>
6      body {
7        font-family: 'Segoe UI', sans-serif;
8        background-color: #f2f0fb;
9        padding: 50px;
10       text-align: center;
11       color: #333;
12     }
13
14     h1 {
15       font-size: 36px;
16       color: #4b2f88;
17       margin-bottom: 10px;
18     }
19
20     p.description {
21       font-size: 18px;
22       color: #666;
23       margin-bottom: 30px;
24     }
25
26     input[type="text"] {
27       padding: 12px;
28       width: 300px;
29       font-size: 16px;
30       border: 2px solid #b5a5e3;

```

```
project.html X
project.html > html > head > style > li span.number
2  <html>
3  <head>
4    <style>
5
26     input[type="text"] {
28       width: 300px;
29       font-size: 16px;
30       border: 2px solid #b5a5e3;
31       border-radius: 6px;
32       outline: none;
33     }
34     input[type="text"]:focus {
35       border-color: #7f5af0;
36     }
37
38     button {
39       padding: 12px 18px;
40       margin-left: 10px;
41       font-size: 16px;
42       background-color: #7f5af0;
43       border: none;
44       color: white;
45       border-radius: 6px;
46       cursor: pointer;
47       transition: background-color 0.3s;
48     }
49     button:hover {
50       background-color: #6746cc;
51     }
52
53     ul {

```

```
project.html X
project.html > html > head > style > li span.number
2 <html>
3 <head>
5 <style>
53 ul {
54   margin-top: 40px;
55   list-style: none;
56   padding: 0;
57 }
58
59 li {
60   background-color: #fff;
61   padding: 15px 20px;
62   margin: 10px auto;
63   width: 400px;
64   font-size: 18px;
65   border-radius: 10px;
66   box-shadow: 0 4px 8px rgba(0,0,0,0.08);
67   display: flex;
68   justify-content: space-between;
69   align-items: center;
70 }
71 li span.number {
72   color: #333;
73   margin-right: 10px;
74 }
75
76 li button {
77   background-color: #D00000;
78   font-size: 14px;
79 }
```

Ln 71, Col 21 Spaces: 4 UTF-8 CRLF {} HTML Port: 5500

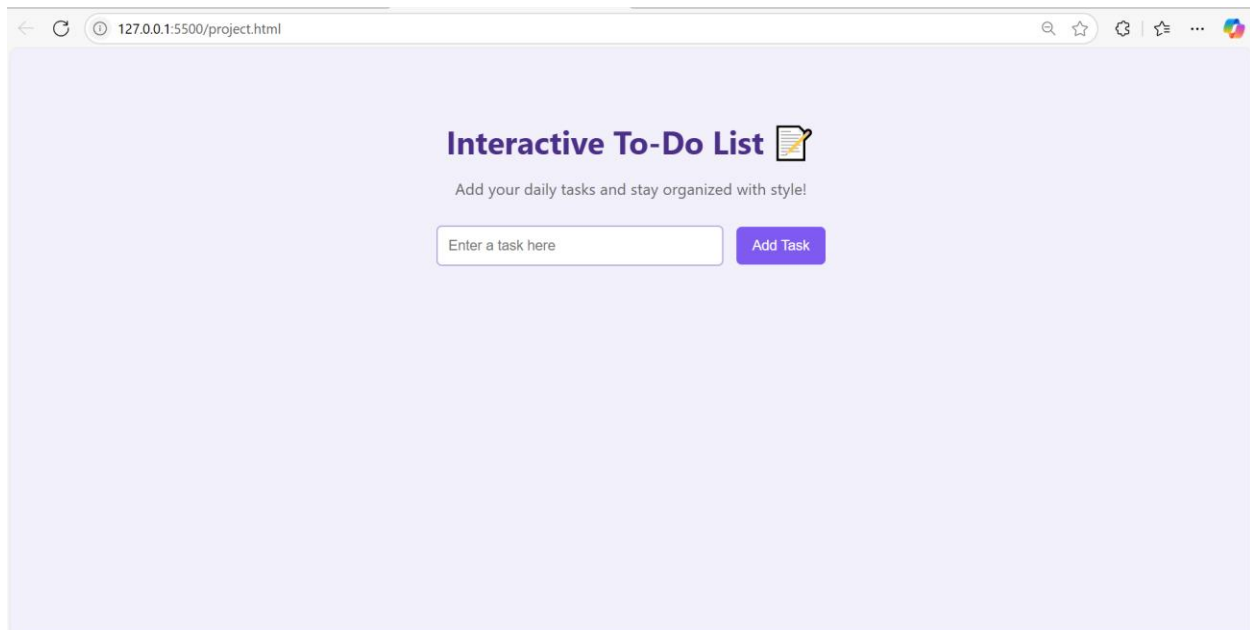
```
project.html X
project.html > html > head > style > li span.number
2 <html>
3 <head>
5 <style>
76 li button {
78   font-size: 14px;
79   padding: 6px 10px;
80 }
81 li button:hover {
82   background-color: #D00000;
83 }
84 </style>
85 </head>
86 <body>
87
88 <h1>Interactive To-Do List </h1>
89 <p class="description">Add your daily tasks and stay organized with style!</p>
90
91 <input type="text" id="taskInput" placeholder="Enter a task here">
92 <button onclick="addTask()">Add Task</button>
93
94 <ul id="taskList"></ul>
95
96 <script>
97   let tasks = [];
98
99   function addTask() {
100     let input = document.getElementById("taskInput");
101     let task = input.value.trim();
102     if (task === "") {
103       alert("Please enter a task!");
104     }
105   }
106 </script>
107 </body>
108 </html>
```

Ln 71, Col 21 Spaces: 4 UTF-8 CRLF {} HTML Port: 5500

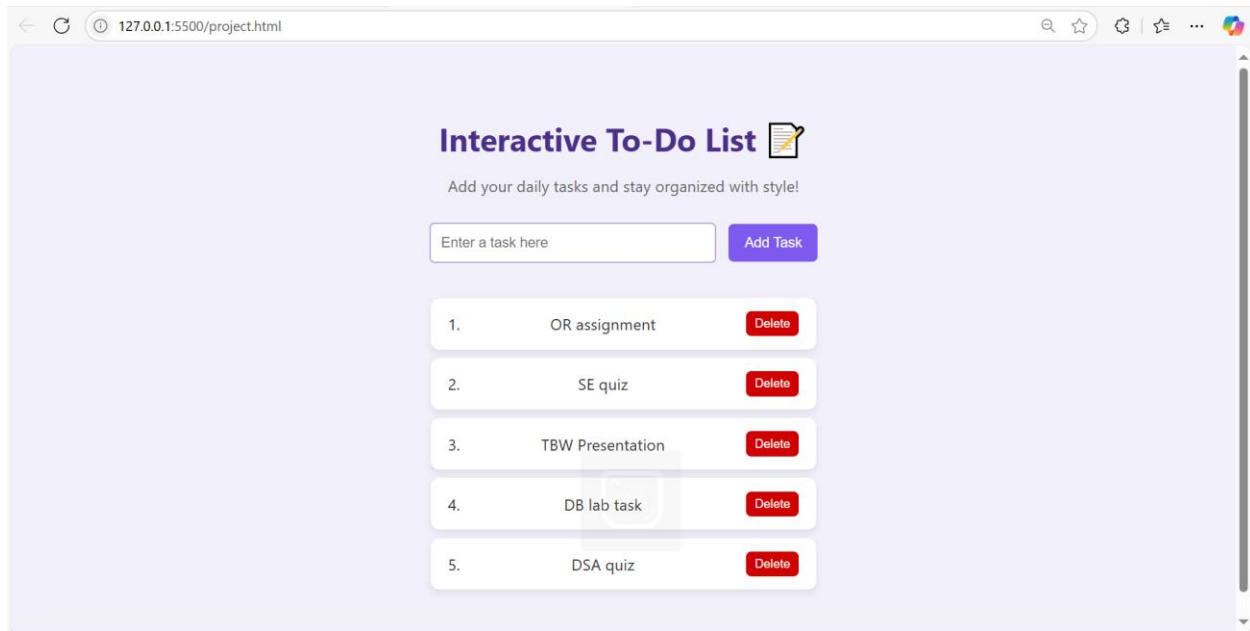
```
project.html X
project.html > html > body
2  <html>
86  <body>
96  <script>
99    function addTask() {
103      alert("Please enter a task!");
104      return;
105    }
106    tasks.push(task);
107    displayTasks();
108    input.value = "";
109  }
110
111  function displayTasks() {
112    let list = document.getElementById("taskList");
113    list.innerHTML = "";
114
115    for (let i = 0; i < tasks.length; i++) {
116      list.innerHTML +=
117        "<li><span class='number'>" + (i + 1) + "</span>" +
118        tasks[i] +
119        "<button onclick='deleteTask(" + i + ")'>Delete</button></li>";
120    }
121  }
122  function deleteTask(index) {
123    tasks.splice(index, 1);
124    displayTasks();
125  }
126  </script>
127 </body>
128 </html>
```

## Screenshot of Webpage:

Empty state:



## Tasks Added:



## Conclusion:

This mini project helped me understand how JavaScript interacts with the browser's HTML elements in real-time. I practiced writing clean and structured code using basic functions and array operations. It also improved my ability to style and structure a webpage using CSS.