

Week 06\index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Week 6: DOM & DOM tree manipulation</title>
7     <link rel="icon" href="https://icon-library.com/images/icon-ninja/icon-ninja-15.jpg">
8     <style>
9       body {
10         font-family: Arial, sans-serif;
11       }
12       #taskInput {
13         margin-bottom: 10px;
14       }
15       .taskList {
16         padding-left: 20px;
17       }
18       .taskItem {
19         margin-bottom: 5px;
20       }
21       .completed {
22         text-decoration: line-through;
23         color: grey;
24       }
25     </style>
26   </head>
27   <body>
28     <h1>To-Do List</h1>
29     <input type="text" id="taskInput" placeholder="Enter task">
30     <button onclick="addTask()">Add Task</button>
31     <ul id="taskList" class="taskList"></ul>
32
33     <script>
34       let tasks = [];
35
36       function renderTasks() {
37         const taskList = document.getElementById('taskList');
38         taskList.innerHTML = '';
39
40         tasks.forEach((task, index) => {
41           const taskItem = document.createElement('li');
42           taskItem.classList.add('taskItem');
43
44           const checkbox = document.createElement('input');
45           checkbox.type = 'checkbox';
46           checkbox.checked = task.completed;
47           checkbox.addEventListener('change', () => {
48             toggleTaskCompletion(index);
49           });
50           taskItem.appendChild(checkbox);
51
52           const taskText = document.createElement('span');
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54         taskText.textContent = task.text;
55         if (task.completed) {
56           taskText.classList.add('completed');
57         }
58         taskItem.appendChild(taskText);
59
60         const editButton = document.createElement('button');
61         editButton.textContent = 'Edit';
62         editButton.addEventListener('click', () => {
63           editTask(index);
64         });
65         taskItem.appendChild(editButton);
66
67         const deleteButton = document.createElement('button');
68         deleteButton.textContent = 'Delete';
69         deleteButton.addEventListener('click', () => {
70           deleteTask(index);
71         });
72         taskItem.appendChild(deleteButton);
73
74         taskList.appendChild(taskItem);
75       });
76     }
77
78     function addTask() {
79       const taskInput = document.getElementById('taskInput');
80       const taskText = taskInput.value.trim();
81       if (taskText !== '') {
82         tasks.push({ text: taskText, completed: false });
83         taskInput.value = '';
84         renderTasks();
85       }
86     }
87
88     function deleteTask(index) {
89       tasks.splice(index, 1);
90       renderTasks();
91     }
92
93     function toggleTaskCompletion(index) {
94       tasks[index].completed = !tasks[index].completed;
95       renderTasks();
96     }
97
98     function editTask(index) {
99       const newTaskText = prompt('Edit task:', tasks[index].text);
100       if (newTaskText !== null) {
101         tasks[index].text = newTaskText.trim();
102         renderTasks();
103       }
104     }
105
106     renderTasks();
107   </script>
108 </body>
109 </html>
```