

Project Title

To-Do List App with Local Storage

Objective

- To design and develop a dynamic To-Do List web application that allows users to:
- Create new tasks
- Update existing tasks
- Delete tasks
- Store tasks using LocalStorage so data remains persistent even after page refresh

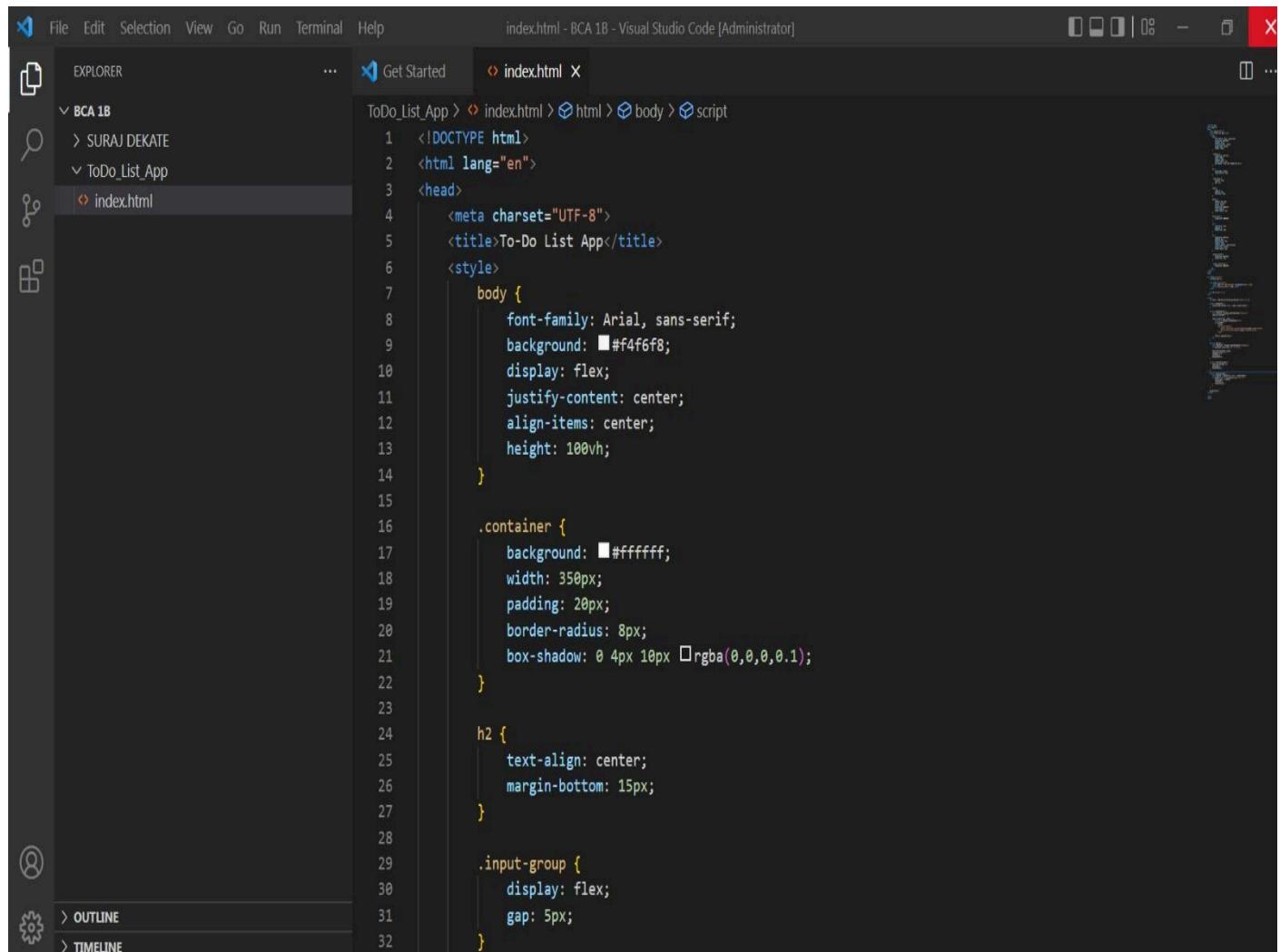
Tech Stack

- HTML – Structure
- CSS – Styling (clean & professional UI)
- JavaScript – Logic & interactivity
- LocalStorage – Persistent data storage

Expected Output:

- User can add, edit, and delete tasks
- Tasks remain saved even after browser refresh

Program:



The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** index.html - BCA 1B - Visual Studio Code [Administrator].
- Explorer Panel (Left):** Shows a project structure under "BCA 1B": SURAJ DEKATE, ToDo_List_App, and index.html. The index.html file is currently selected.
- Editor Area (Center):** Displays the content of the index.html file. The code is as follows:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>To-Do List App</title>
<style>
    body {
        font-family: Arial, sans-serif;
        background: #f4f6f8;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
    }

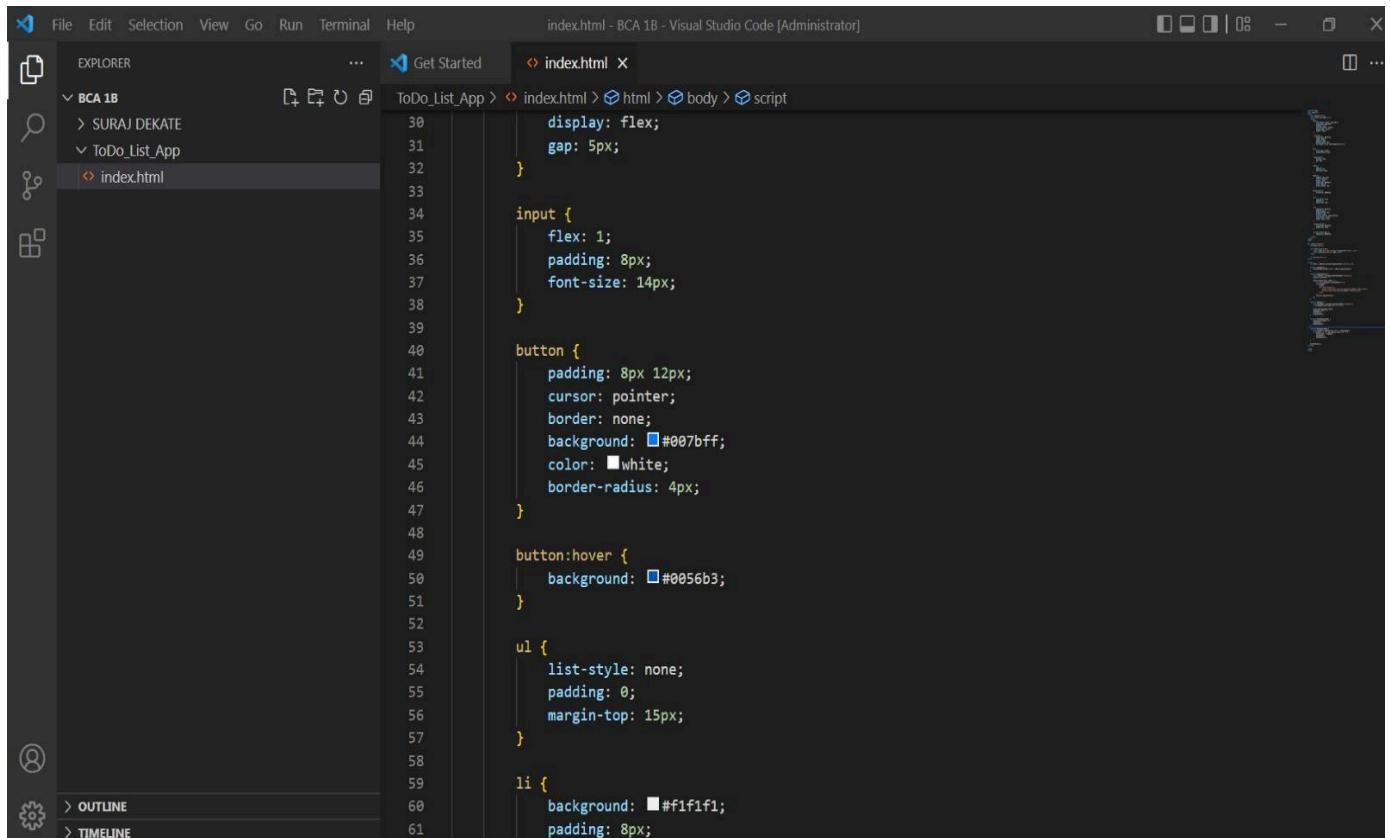
    .container {
        background: #ffffff;
        width: 350px;
        padding: 20px;
        border-radius: 8px;
        box-shadow: 0 4px 10px rgba(0,0,0,0.1);
    }

    h2 {
        text-align: center;
        margin-bottom: 15px;
    }

    .input-group {
        display: flex;
        gap: 5px;
    }

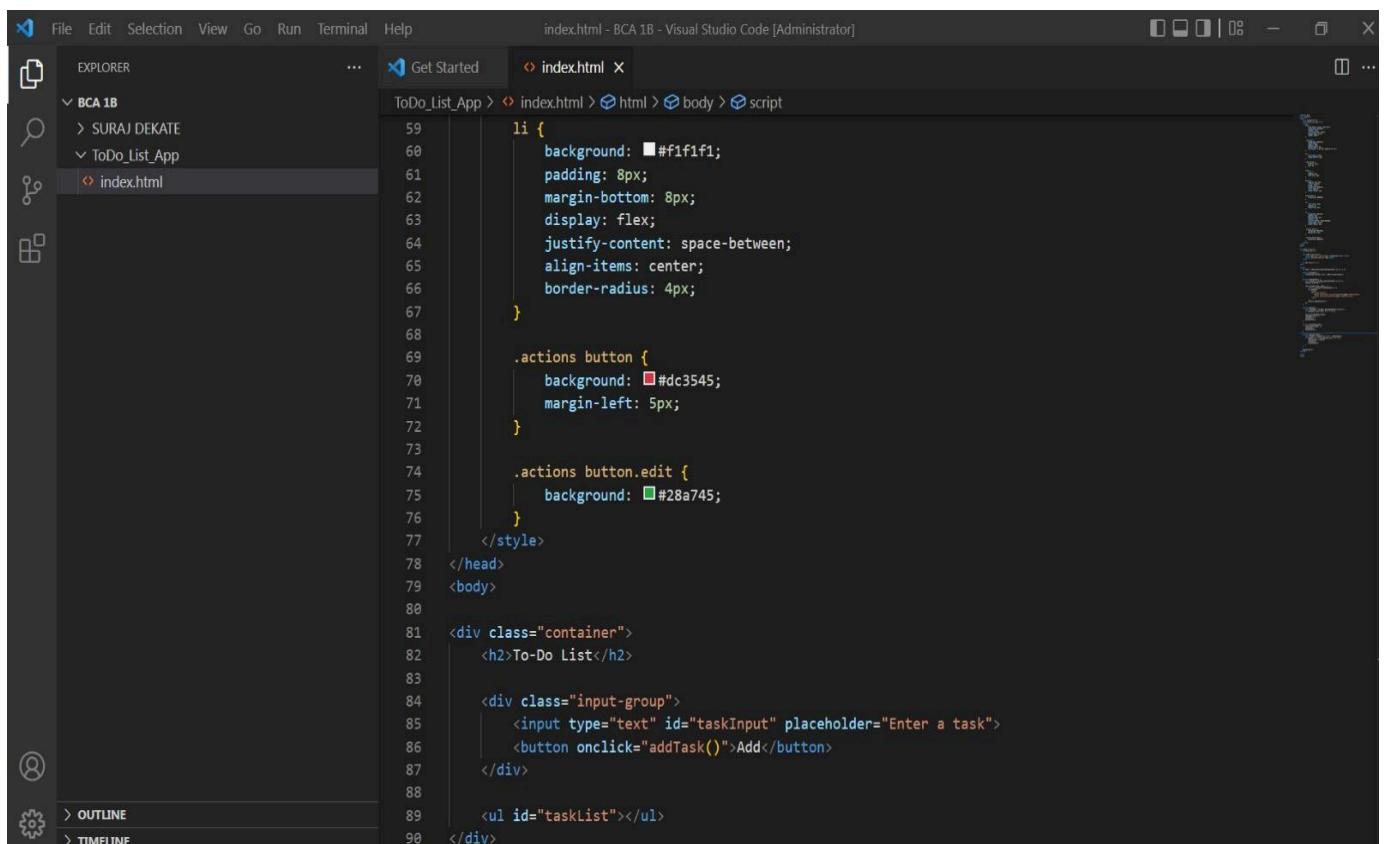
```

The code defines a basic structure for a To-Do List application, including a container for the form and styling for the body, container, h2, and input-group elements.



index.html - BCA 1B - Visual Studio Code [Administrator]

```
30 |     display: flex;
31 |     gap: 5px;
32 |
33 |
34 |     input {
35 |         flex: 1;
36 |         padding: 8px;
37 |         font-size: 14px;
38 |
39 |
40 |         button {
41 |             padding: 8px 12px;
42 |             cursor: pointer;
43 |             border: none;
44 |             background: #007bff;
45 |             color: white;
46 |             border-radius: 4px;
47 |
48 |
49 |             button:hover {
50 |                 background: #0056b3;
51 |
52 |
53 |             ul {
54 |                 list-style: none;
55 |                 padding: 0;
56 |                 margin-top: 15px;
57 |
58 |
59 |             li {
60 |                 background: #f1f1f1;
61 |                 padding: 8px;
```



index.html - BCA 1B - Visual Studio Code [Administrator]

```
59 |     li {
60 |         background: #f1f1f1;
61 |         padding: 8px;
62 |         margin-bottom: 8px;
63 |         display: flex;
64 |         justify-content: space-between;
65 |         align-items: center;
66 |         border-radius: 4px;
67 |
68 |
69 |         .actions button {
70 |             background: #dc3545;
71 |             margin-left: 5px;
72 |
73 |
74 |             .actions button.edit {
75 |                 background: #28a745;
76 |
77 |             }
78 |         </style>
79 |     </head>
80 |     <body>
81 |         <div class="container">
82 |             <h2>To-Do List</h2>
83 |
84 |             <div class="input-group">
85 |                 <input type="text" id="taskInput" placeholder="Enter a task">
86 |                 <button onclick="addTask()">Add</button>
87 |             </div>
88 |
89 |             <ul id="taskList"></ul>
90 |         </div>
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows a project structure under "BCA 1B" with "SURAJ DEKATE", "ToDo_List_App", and "index.html".
- Editor (Center):** Displays the content of "index.html".
- Bottom Bar:** Shows "OUTLINE" and "TIMELINE" buttons.

```
index.html - BCA 1B - Visual Studio Code [Administrator]

<script>
let tasks = JSON.parse(localStorage.getItem("tasks") || []);
function saveTasks() {
    localStorage.setItem("tasks", JSON.stringify(tasks));
}
function displayTasks() {
    const taskList = document.getElementById("taskList");
    taskList.innerHTML = '';
    tasks.forEach((task, index) => {
        const li = document.createElement("li");
        li.innerHTML =
            `${task}
            <div class="actions">
                <button class="edit" onclick="editTask(${index})>Edit</button>
                <button onclick="deleteTask(${index})>Delete</button>
            </div>
        `;
        taskList.appendChild(li);
    });
}
function addTask() {
    const taskInput = document.getElementById("taskInput");
    if (taskInput.value.trim() === "") return;

    tasks.push(taskInput.value);
    taskInput.value = "";
    saveTasks();
}

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```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows a project structure under "BCA 1B" with "SURAJ DEKATE", "ToDo_List_App", and "index.html".
- Editor (Center):** Displays the content of "index.html". The code has been modified compared to the previous screenshot.
- Bottom Bar:** Shows "OUTLINE" and "TIMELINE" buttons.

```
index.html - BCA 1B - Visual Studio Code [Administrator]

<script>
tasks.push(taskInput.value);
taskInput.value = "";
saveTasks();
displayTasks();

function deleteTask(index) {
    tasks.splice(index, 1);
    saveTasks();
    displayTasks();
}

function editTask(index) {
    const newTask = prompt("Edit task:", tasks[index]);
    if (newTask !== null && newTask.trim() !== "") {
        tasks[index] = newTask;
        saveTasks();
        displayTasks();
    }
}

displayTasks();
</script>
</body>
</html>
```

Output:

