

Mannat Nandi Se2/B3/45

Experiment 3

Aim:

Create a dynamic To-Do List where users can add, mark as complete, and remove tasks using JavaScript & DOM.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>To-Do List</title>
    <style>
        * {
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }

        body {
            font-family: Arial, sans-serif;
            background-color: #f0e6f6;
            display: flex;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
            padding: 20px;
        }

        .container {
            background-color: #fff5f8;
            padding: 40px;
            border-radius: 15px;
            box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
            width: 100%;
            max-width: 500px;
        }

        h1 {
            text-align: center;
            color: #9b59b6;
            margin-bottom: 30px;
            font-size: 32px;
        }
    </style>

```

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```
}
```

```
.input-section {
  display: flex;
  gap: 10px;
  margin-bottom: 25px;
}

input[type="text"] {
  flex: 1;
  padding: 12px 15px;
  border: 2px solid #d4a5d4;
  border-radius: 8px;
  font-size: 16px;
  outline: none;
  background-color: #fef9ff;
}

input[type="text"]:focus {
  border-color: #9b59b6;
}

button {
  padding: 12px 24px;
  border: none;
  border-radius: 8px;
  cursor: pointer;
  font-size: 16px;
  transition: background-color 0.3s;
}

.add-btn {
  background-color: #b4a7d6;
  color: white;
}

.add-btn:hover {
  background-color: #9b8bc4;
}

.task-list {
  list-style: none;
}

.task-item {
  background-color: #e8f4f8;
```

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```
padding: 15px;
margin-bottom: 10px;
border-radius: 8px;
display: flex;
justify-content: space-between;
align-items: center;
border: 2px solid #c8e3f0;
}

.task-item.completed {
background-color: #d4f1d4;
border-color: #a8d8a8;
}

.task-item.completed .task-text {
text-decoration: line-through;
color: #7a9b7a;
}

.task-text {
flex: 1;
font-size: 16px;
color: #333;
}

.task-buttons {
display: flex;
gap: 8px;
}

.complete-btn {
background-color: #a8d8a8;
color: white;
padding: 8px 16px;
}

.complete-btn:hover {
background-color: #8ec68e;
}

.delete-btn {
background-color: #f5b7b1;
color: white;
padding: 8px 16px;
}
```

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```
.delete-btn:hover {
    background-color: #e89e98;
}

.empty-message {
    text-align: center;
    color: #999;
    padding: 20px;
    font-style: italic;
}
</style>
</head>
<body>
<div class="container">
    <h1>My To-Do List</h1>

    <div class="input-section">
        <input type="text" id="taskInput" placeholder="Enter a new task...">
        <button class="add-btn" onclick="addTask()">Add Task</button>
    </div>

    <ul class="task-list" id="taskList">
        <li class="empty-message">No tasks yet. Add one above!</li>
    </ul>
</div>

<script>
let tasks = [];

function addTask() {
    const input = document.getElementById('taskInput');
    const taskText = input.value.trim();

    if (taskText === "") {
        alert('Please enter a task!');
        return;
    }

    const task = {
        id: Date.now(),
        text: taskText,
        completed: false
    };

    tasks.push(task);
    input.value = "";
}
```

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```
renderTasks();
}

function toggleComplete(id) {
    tasks = tasks.map(task =>
        task.id === id ? { ...task, completed: !task.completed } : task
    );
    renderTasks();
}

function deleteTask(id) {
    tasks = tasks.filter(task => task.id !== id);
    renderTasks();
}

function renderTasks() {
    const taskList = document.getElementById('taskList');

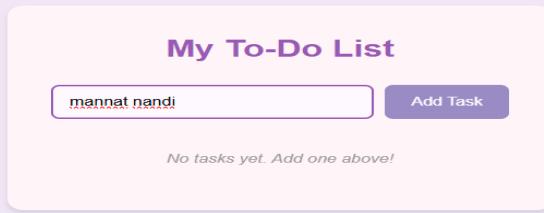
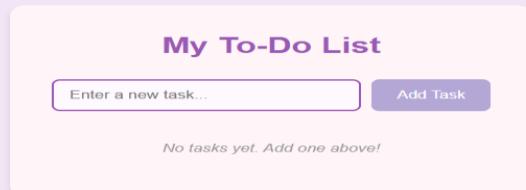
    if (tasks.length === 0) {
        taskList.innerHTML = '<li class="empty-message">No tasks yet. Add one above!</li>';
        return;
    }

    taskList.innerHTML = tasks.map(task => `
        <li class="task-item ${task.completed ? 'completed' : ''}">
            <span class="task-text">${task.text}</span>
            <div class="task-buttons">
                <button class="complete-btn" onclick="toggleComplete(${task.id})">
                    ${task.completed ? 'Undo' : 'Complete'}
                </button>
                <button class="delete-btn" onclick="deleteTask(${task.id})">Delete</button>
            </div>
        </li>
    `).join("");
}

document.getElementById('taskInput').addEventListener('keypress', function(e) {
    if (e.key === 'Enter') {
        addTask();
    }
});
</script>
</body>
</html>
```

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Output:



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