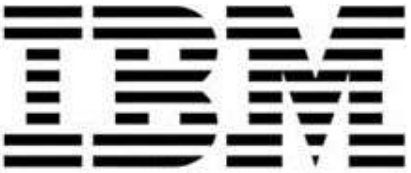



**COLLEGE CODE: 9602**

**COLLEGE NAME: Arunachala college of engineering for women**

**DEPARTMENT: Computer Science and Engineering**

**STUDENT NM-ID: D0CBAB061C76795848348D1A9236F198**

**ROLL NO: 960223104019**

**DATE: 06-10-2025**

**Completed the project named as**

**Phase 5 Technology Project**

**NAME: To Do List Applications**

**SUBMITTED BY**

**NAME: Ami Andrija. S**

**MOBILE NO: 9842334534**

# Project Demonstration & Documentation

## Final Demo Walkthrough:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Todo List App</title>
 <style>  body {  font-
family: Arial, sans-serif;
background: #f4f4f9;
  display: flex;
justify-content: center;
align-items: center;
height: 100vh;  margin:
0;
 }

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

 h2 {  text-align:
center;
  margin-bottom: 20px;
 }
 .input-row {
 display: flex;
  margin-bottom: 15px;
```

```
    }

    #taskInput {
      flex: 1;
      padding: 10px;
border: 1px solid #ddd;
border-radius: 5px;
outline: none;
    }

    #addBtn {       margin-
left: 10px;       padding:
10px 15px;       border:
none;       background:
#007bff;
      color: white;       border-
radius: 5px;       cursor:
pointer;
    }

    #addBtn:hover {
background: #0056b3;
    }

    ul {
      list-style: none;
    padding: 0;

    }

    li {
```

```
    background: #f9f9f9;
margin: 8px 0;
padding: 10px;      border-
radius: 5px;
    display: flex;
    justify-content: space-between;      align-
items: center;
  }

  .task-text {
flex: 1;
    margin-left: 10px;
  }

  .completed .task-text {      text-
decoration: line-through;      color:
#777;
  }

  .deleteBtn {
background: crimson;
    color: white;
border: none;
padding: 5px 8px;
border-radius: 5px;
cursor: pointer;
margin-left: 10px;
  }
  .deleteBtn:hover {
 background: darkred;
  }
```

```
  </style>
</head>
<body>
  <div class="container">
    <h2>  Todo List</h2>
    <div class="input-row">
      <input type="text" id="taskInput" placeholder="Add a new task...">
      <button id="addBtn">Add</button>
    </div>
    <ul id="taskList"></ul>
  </div>

  <script>     const taskInput =
document.getElementById('taskInput');     const addBtn =
document.getElementById('addBtn');     const taskList =
document.getElementById('taskList');

    // Load tasks from localStorage
window.onload = loadTasks;

    function loadTasks() {       let tasks =
JSON.parse(localStorage.getItem('tasks')) || [];
tasks.forEach(task => renderTask(task.text, task.completed));
    }

    addBtn.addEventListener('click', addTask);
    taskInput.addEventListener('keypress', function(e) {      if (e.key === 'Enter')
    addTask();
    });
```

```
   function addTask() {      const taskText =
taskInput.value.trim();       if (taskText ===
'') return;

     renderTask(taskText, false);
saveTasks();

     taskInput.value = '';
   }

   function renderTask(text, completed) {
const li = document.createElement('li');

     // Checkbox       const checkbox =
document.createElement('input');       checkbox.type =
'checkbox';       checkbox.checked = completed;

     // Task text
     const span = document.createElement('span');
span.textContent = text;       span.classList.add('task-
text');

     if (completed) li.classList.add('completed');

     checkbox.addEventListener('change', () => {
   li.classList.toggle('completed');
   saveTasks();
     });

     // Delete button      const deleteBtn =
document.createElement('button');
```

```
deleteBtn.textContent = 'X';
deleteBtn.classList.add('deleteBtn');
deleteBtn.addEventListener('click', () => {
      li.remove();
saveTasks();
    });

    li.appendChild(checkbox);
li.appendChild(span);
li.appendChild(deleteBtn);
taskList.appendChild(li);
  }

  function saveTasks() {
    let tasks = [];
    taskList.querySelectorAll('li').forEach(li => {
tasks.push({         text: li.querySelector('.task-
text').textContent,         completed:
li.classList.contains('completed')
      });
    });
    localStorage.setItem('tasks', JSON.stringify(tasks));
  }
 </script>
</body>
</html>
```

## Project Report:

1.Introduction

This project is a frontend To-Do List app built using HTML, CSS, and JavaScript. It allows users to add, mark, and delete tasks, with a checkbox for task completion verification. Tasks are stored in localStorage for persistence.

2. Objectives

- Provide a simple task management tool.
- Enable adding, completing, and deleting tasks.
- Save tasks in localStorage for future access.

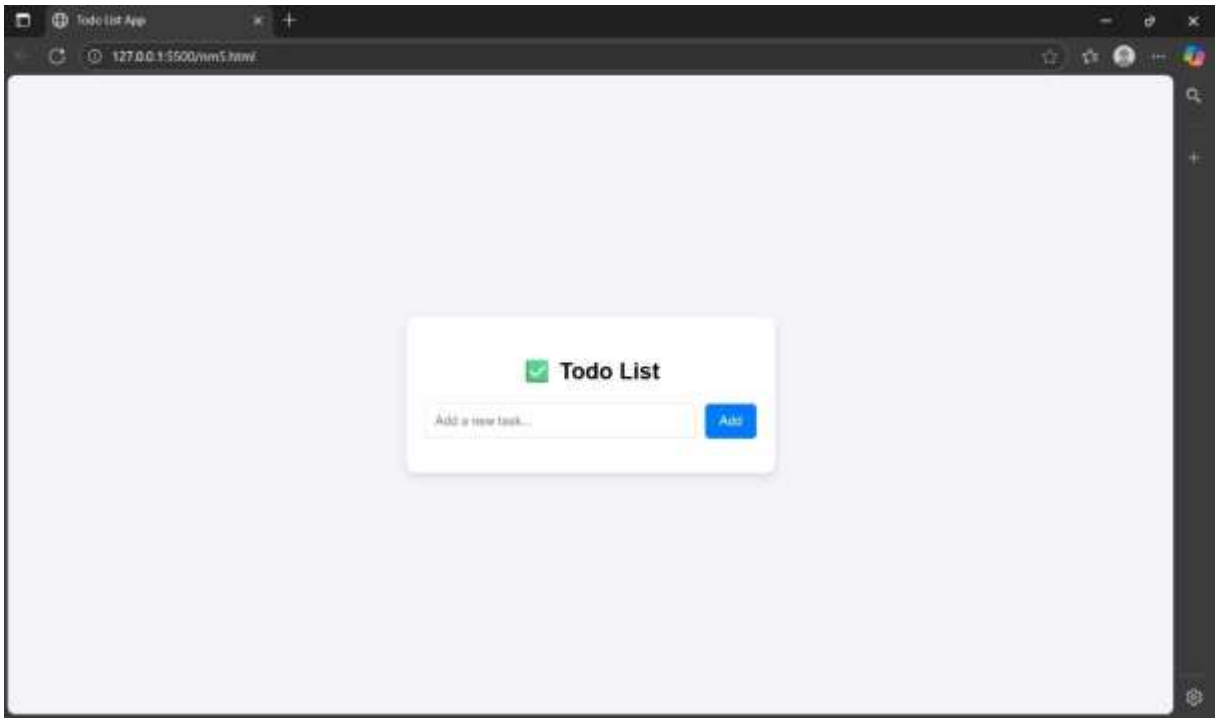
3. Features

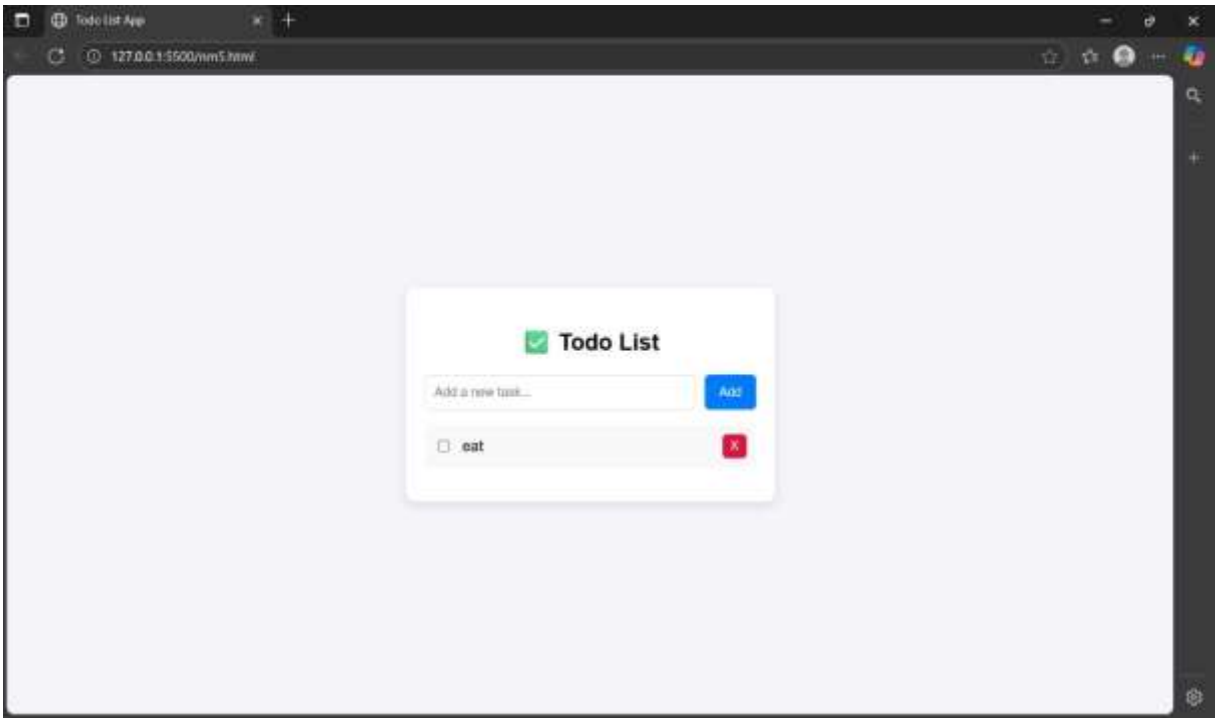
- Add new tasks.
- Completion checkbox with strike-through effect.
- Delete tasks.
- Persistent storage in browser.

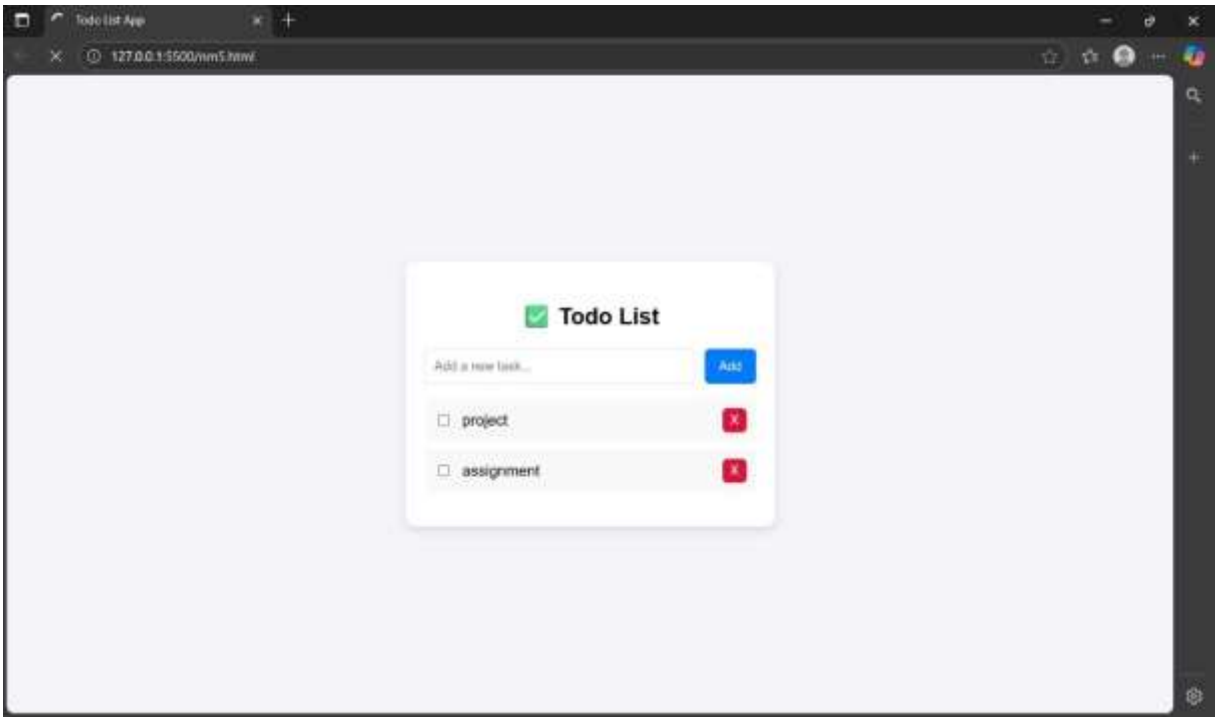
4. Advantages

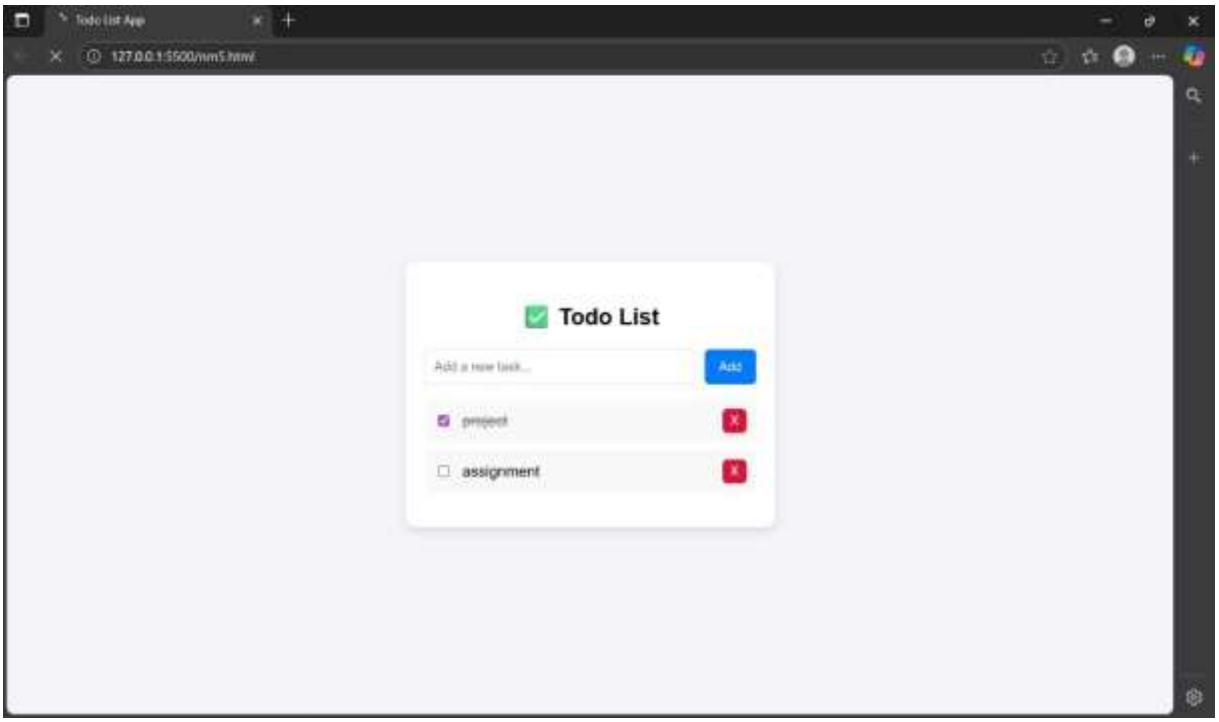
- Lightweight and user-friendly.
- Works across browsers and devices.
- No backend required.

## Screenshots / API Documentation:




Todo List App
127.0.0.1:5500/nm5.html
Todo List
Add a new task...
Add
eat


Todo List App
127.0.0.1:5500/nm5.html
Todo List
Add a new task...
Add
project
assignment




## Challenges & Solutions:

- Challenge 1: Ensuring tasks remain saved after page reload.
  - Solution: Used localStorage to persist data.
- Challenge 2: Handling task completion status.
  - Solution: Added a checkbox that toggles the "completed" class with line-through style.
- Challenge 3: Managing task deletion without affecting other tasks.
  - Solution: Implemented individual delete buttons linked to each task.

## GitHub README & Setup Guide:

Go to github.com.

1. Log in to your account (if needed).
2. Navigate to the repository you want to share.
3. On the repository homepage, click the green “Code” button.
4. Under HTTPS, copy the link shown (e.g., https://github.com/username/repo-name).

## Final Submission:

- **GitHub Repository**: https://github.com/amiandrija-afk/phase-5/blob/main/index.html