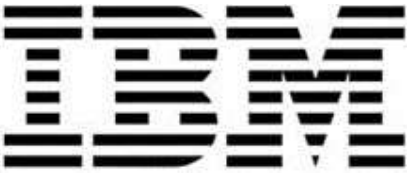


COLLEGE CODE: 9602

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.

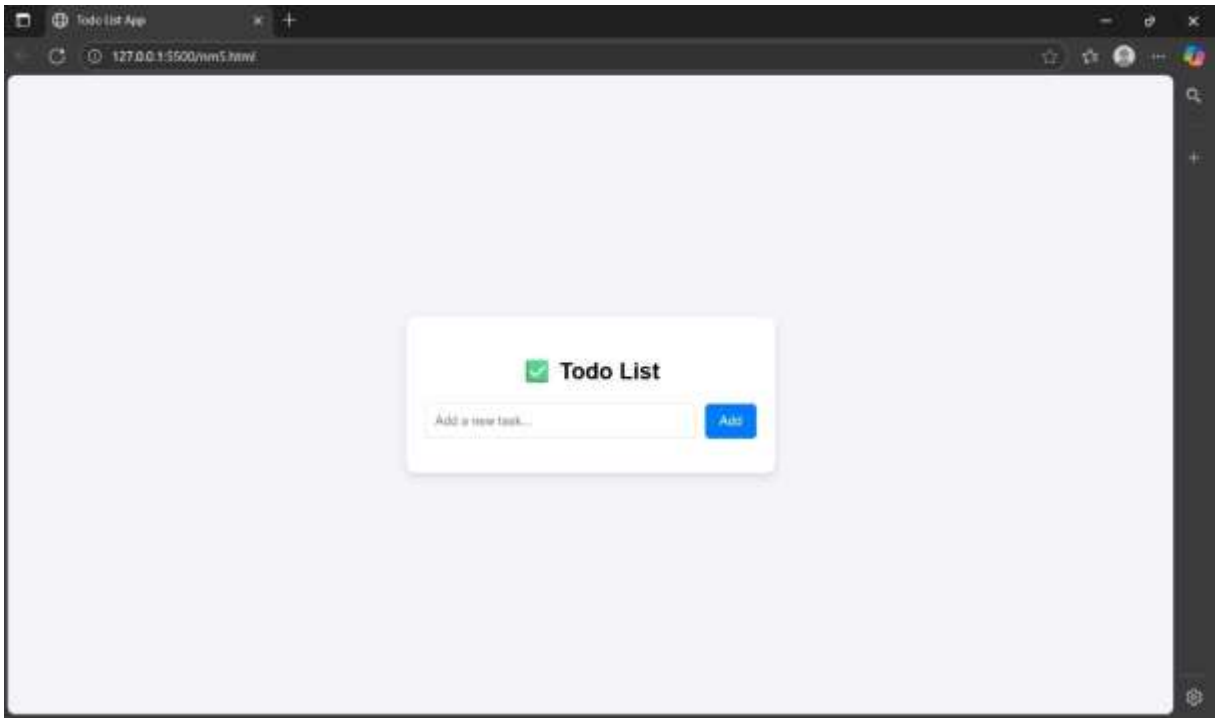
3. Features

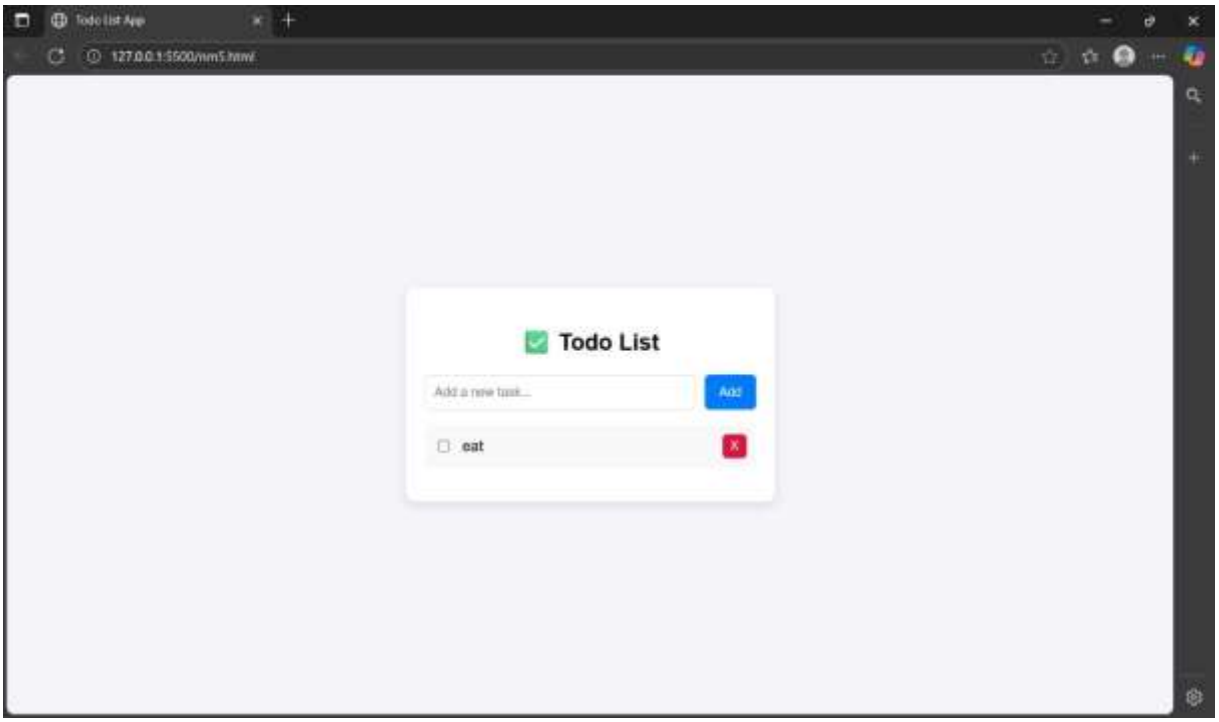
- Add new tasks.
- Completion checkbox with strike-through effect.
- Delete tasks.
- Persistent storage in browser.

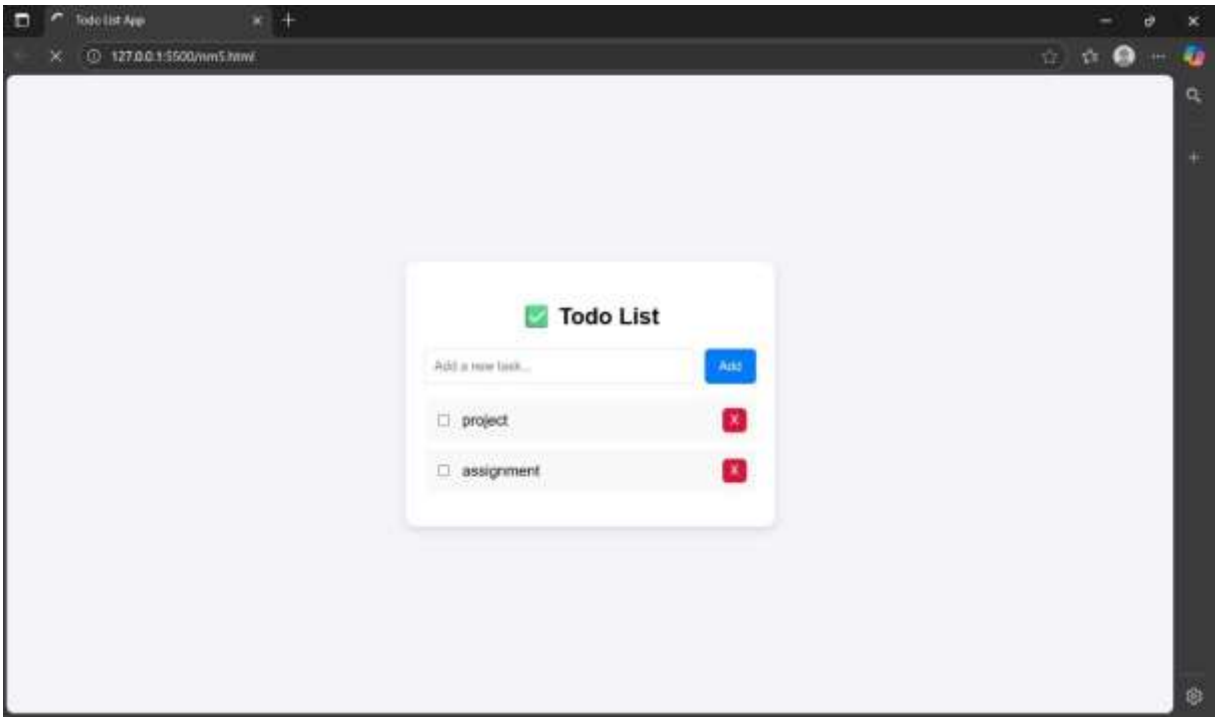
4. Advantages

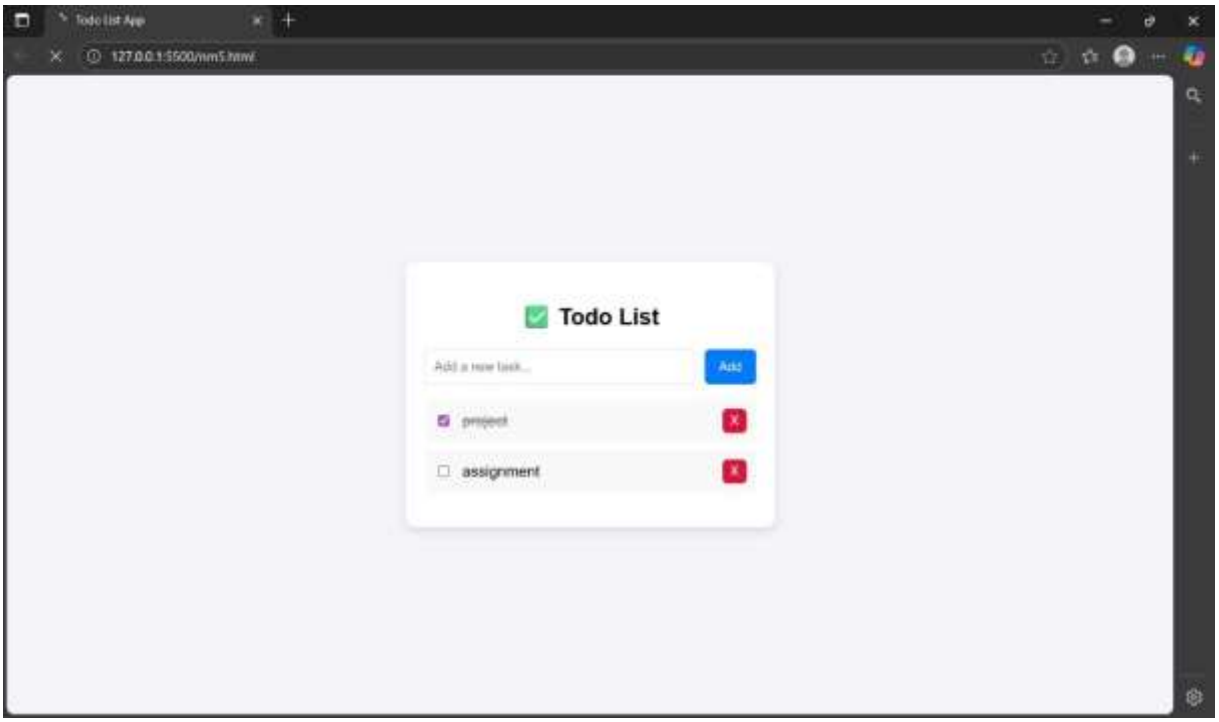
- Lightweight and user-friendly.
- Works across browsers and devices.
- No backend required.

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://amiandrija-afk.github.io/phase-5/
  https://github.com/amiandrija-afk/phase-5/blob/main/index.html