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St.MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

NM-ID:9D1F84DA855FD45936B4653F42567E9C

REG NO: 953023104033

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Completed The Project Named as

Phase 3

TO-DO LIST APPLICATION

SUBMITTED BY,

IFFAT FATHIMA I

9677874707

PHASE-3 TO-DO LIST APPLICATION

Project Setup:

- 1. Create a folder named ToDoApp.
- 2. Inside it, add files: index.html, style.css, script.js.
- 3. Add a README.md for documentation.
- 4. Initialize Git using git init.
- 5. Create a GitHub repo and connect it.
- 6. Write a basic HTML structure (input, button, task list).
- 7. Link CSS and JS files in the HTML.
- 8. Add minimal CSS for design and layout.
- 9. Add basic JS to handle task addition.
- 10. Commit and push the setup to GitHub.

Core Features:

1. Add Task

MVP Implementation:

Input field + "Add" button.

Save task to localStorage for persistence. 2. Edit Task MVP Implementation: Inline edit using contentEditable or an edit modal. Update the task in the DOM and localStorage. 3. Delete Task MVP Implementation: Delete button next to each task. Use removeChild() to remove task from DOM. Remove task from localStorage. 4. Mark Task as Complete MVP Implementation: Checkbox toggle or strikethrough effect on click. Update task status in localStorage. 5. View Task List MVP Implementation: Display all tasks dynamically on page load.

JavaScript createElement() to add task to the DOM.

Fetch tasks from localStorage and render with JavaScript.

6. Persistent Storage

MVP Implementation:

Use localStorage to save tasks between sessions.

JSON stringify/parse for storing and retrieving tasks.

Data Storage(Local State/Database):

1. Local State (JavaScript Array)

Store tasks temporarily in an array.

Example:

```
let tasks = [];
```

tasks.push({ text: "Buy milk", completed: false });

2. Local Storage (Browser Persistence)

Use localStorage to keep tasks even after refresh.

Example:

localStorage.setItem("tasks", JSON.stringify(tasks));

let saved = JSON.parse(localStorage.getItem("tasks")) || [];

3. Database (Optional – if backend is added)

Use databases like MySQL, MongoDB, Firebase.

Tasks stored on a server, accessible across devices.

4. MVP Choice

For Phase 3 (MVP), localStorage is enough.

Database can be added later for multi-user support.

Testing Core Features:

1. Add Task

Test Steps:

- 1. Enter a new task in the input field.
- 2. Click the "Add" button.

Expected Result:

Task appears in the task list.

Task is saved in localStorage.

Edge Cases:

Empty input \rightarrow should show error or prevent adding.

Very long task text \rightarrow should display properly without breaking UI.

2. Edit Task

Test Steps:

- 1. Click on a task to edit (inline or modal).
- 2. Modify the task text and save.

Expected Result:

Task updates in the DOM.

Updated task persists in localStorage.

Edge Cases:

Editing to empty text \rightarrow should prevent or show error.

Special characters \rightarrow should display correctly.

3. Delete Task

Test Steps:

1. Click the delete button on a task.

Expected Result:

Task disappears from the DOM.

Task is removed from localStorage.

Edge Cases:

Delete the last task \rightarrow list should show "No tasks" message.

4. Mark Task as Complete
Test Steps:
1. Click the checkbox next to a task.
Expected Result:
Task text shows strikethrough or "completed" style.
Status persists after page reload.
Edge Cases:
Toggle back to incomplete → should update DOM and storage
correctly.
5. View Task List
Test Steps:
1. Reload the page.
Expected Result:
All saved tasks display correctly from localStorage.
Edge Cases:
Empty list → should display "No tasks" message.
6. Persistent Storage
Test Steps:
1. Add, edit, or delete tasks.

2. Reload the page or close and reopen the browser.
Expected Result:
All changes persist accurately.
Version Control(GitHub):
https://github.com/iffatfathimaa777-tech/Naan-muthalvan.git