

NOTES APP – PROJECT DOCUMENTATION

1. Project Overview

The Notes App is a simple, clean, and responsive web application built using HTML, CSS, and JavaScript. It allows users to add, view, and delete notes, while saving all notes in the browser's localStorage.

2. Objectives

- Build a mini CRUD-based project
- Practice DOM manipulation
- Use localStorage for data persistence
- Create a responsive user interface

3. Features

- Add notes
- View all saved notes
- Delete notes
- Notes stored permanently using localStorage
- Fully responsive on all devices

4. Technologies Used

- HTML
- CSS
- JavaScript
- localStorage API

5. How the Application Works

1. User types a note and clicks “Add Note”.
2. JavaScript stores the note into an array.
3. The array is saved in localStorage.
4. The UI updates and shows all notes.
5. Delete button removes the selected note.
6. On page reload, notes are fetched from localStorage and displayed.

6. Project File Structure (Single File)

Since the entire project is built inside **one single file (notes.html)**, all HTML, CSS, and JavaScript code is included in the same file.

Structure:

- notes.html → Contains HTML structure, CSS styling, JavaScript logic, and responsive design.

7. Code Explanation

- HTML handles the app layout.

- CSS provides clean UI and responsive styling.
- JavaScript handles note creation, deletion, and persistence using localStorage.

8. localStorage Logic

- localStorage.setItem() → Save notes
- localStorage.getItem() → Load notes
- JSON.stringify() → Convert array to string
- JSON.parse() → Convert string to array

9. Advantages

- No backend required
- Works offline
- Data persists across refresh
- Simple and fast

10. Limitations

- Notes cannot be edited
- Limited by browser storage

11. Conclusion

The Notes App demonstrates basic CRUD functionality, DOM handling, event listeners, responsive design, and the use of localStorage for saving data permanently.