

Student Registration System

A Web Application using HTML, CSS & JavaScript

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1. Introduction

The **Student Registration System** is a responsive web-based application that allows users to register, view, edit, and delete student records. The system is designed with a clean UI and uses browser **Local Storage** to ensure data persistence even after page refresh.

2. Objective

Develop a student registration system where students can register their details, such as name, class, address, and contact number. Additionally, it provides functionalities for editing and deleting records.

To develop a student registration system that:

- Collects student details
- Displays registered records
- Allows editing and deletion of records
- Ensures proper input validation
- Maintains data persistence using Local Storage

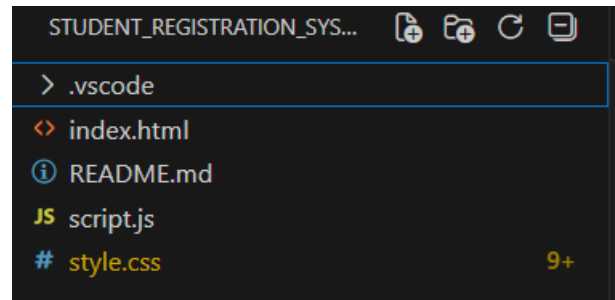
3. Technologies Used

- **HTML5** – Structure and semantic elements
- **CSS3** – Styling, layout, responsiveness
- **JavaScript (DOM Manipulation)** – Application logic
- **Local Storage** – Persistent data storage

4. Project File Structure

Student_Registration_System/

- | — index.html
- | — style.css
- | — script.js
- | — image.png
- | — README.md



No nested folders

Clean and organized structure

5. Task-wise Implementation

5.1 Basic Structure

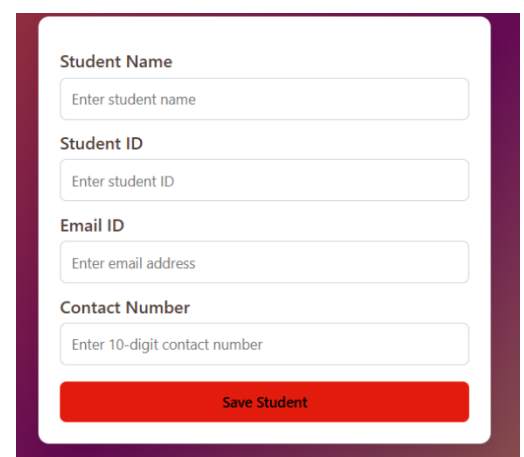
- Created index.html with proper HTML5 structure
- Included meta tags for character encoding and responsive design
- Added a meaningful page title

5.2 Header

- Title: **Student Registration System**
- Short description explaining application functionality
- Sticky header implemented using CSS for better navigation

5.3 Form and Input Fields

- Registration form includes:
 - Student Name
 - Student ID
 - Email ID
 - Contact Number
- Labels, spacing, and layout designed for good user experience

A screenshot of a web form titled 'Student Registration System'. The form is enclosed in a white box with a purple border. It contains four input fields, each with a label above it: 'Student Name' (with placeholder 'Enter student name'), 'Student ID' (with placeholder 'Enter student ID'), 'Email ID' (with placeholder 'Enter email address'), and 'Contact Number' (with placeholder 'Enter 10-digit contact number'). At the bottom of the form is a red button labeled 'Save Student'.

- Submit button to save student data

5.4 Display Section

- Registered students displayed in a table format

- Columns:

- Name
- Student ID
- Email ID
- Contact Number
- Actions (Edit / Delete)

Name	ID	Email	Contact	Actions
Udugundla Praveen	12345	upraveen776@gmail.com	7729806574	Edit Delete
Udugundla Praveen	12	upraveen776@il.com	7729806574	Edit Delete

- Display section is responsive
- Vertical scrollbar added dynamically when records exceed a limit

5.5 Styling and Design

- Modern color theme and typography
- Sticky header with shadow effect
- Background image support
- Responsive design for:
 - **Mobile ($\leq 640\text{px}$)**
 - **Tablet ($641\text{px} - 1024\text{px}$)**
 - **Desktop ($\geq 1025\text{px}$)**
- Media queries used for mobile responsiveness

Student Registration System

Register, Edit and Manage Student Details

Student Name

Student ID

Email ID

Contact Number

Save Student

Registered Students

Name	ID	Email	Contact	Actions
Udugundla Praveen	12345	upraveen776@gmail.com	7729806574	Edit Delete
Udugundla Praveen	12	upraveen776@il.com	7729806574	Edit Delete
Udugundla Praveen	134	upraveen776@gmail.com	7729806574	Edit Delete

Student Registration System

Register, Edit, and Manage Student Details

Email Address

Contact Number

Save Student

Registered Students

Name	ID	Email	Contact	Actions
Udugundla Praveen	134	upraveen776@gmail.com	7729806574	Edit Delete
sai	1	sai@gamil.com	9876234589	Edit Delete
tharuni	2	tharuniK@gmail.com	9823123456	Edit Delete
Udugundla Praveen	3	upraveen776+1@gmail.com	7729806574	Edit Delete

5.6 JavaScript Functionality

- Add new student records
- Edit existing records
- Delete records with confirmation
- Data stored in **LocalStorage**
- Prevents data loss on page refresh
- Dynamic scrollbar controlled using JavaScript

5.7 Documentation and Comments

- Organized file structure with no nested folders
- Clean and readable code
- JavaScript comments explain:
 - LocalStorage logic
 - Input validation
 - Edit and delete operations
 - Scrollbar handling
- GitHub repository created with separate commits

6. Validation Rules

- Student Name → Only alphabets allowed
- Student ID → Numbers only
- Contact Number → Exactly 10 digits
- Email → Valid email format
- Empty rows are not allowed

7. How to Run the Project

1. Download or clone the repository
2. Open index.html in a web browser
3. Add, edit, or delete student records

8. GitHub Repository

GitHub Link:

https://github.com/Praveen775D/Student_Registration_System

9. Commit Structure












The following **separate commits** were made to avoid mark deduction:

1. HTML structure commit
2. CSS styling commit
3. JavaScript functionality commit
4. README documentation commit

Single commit was avoided

Assignment guidelines followed strictly

Commits

 main ▾	 All users ▾	 All time ▾
Commits on Jan 10, 2026		
Add project documentation  Praveen775D committed 4 hours ago	f92d586  <>	
Add student CRUD functionality with validation and localStorage  Praveen775D committed 4 hours ago	713b98f  <>	
Add styling and responsive design  Praveen775D committed 4 hours ago	640a66f  <>	
Add student registration HTML structure  Praveen775D committed 4 hours ago	70d038a  <>	

10. Conclusion

This project successfully meets all the requirements specified in the assignment. It demonstrates effective use of HTML, CSS, and JavaScript, proper input validation, data persistence, responsive design, and clean documentation with version control using GitHub.