**STUDENT REGISTRATION SYSTEM**

# Introduction

The Student Registration System is a web-based application that allows users to register, view, edit, and delete student records. It captures key information including the student’s name, student ID, email, and contact number. This system is designed using HTML, CSS, and JavaScript, with local storage used for maintaining data persistence across page reloads.

**Edit and Delete Functionality**

Edit Functionality:

- When the user clicks the 'Edit' button for a specific student record, the data is loaded back into the input form fields.

- The corresponding entry is removed temporarily from the student list array.

- Once the form is resubmitted, the updated data is saved as a new entry in local storage.

**Delete Functionality:**

- When the user clicks the 'Delete' button for a student, the record is removed from the students array using the splice() function.

- The updated array is saved back to local storage, and the table is refreshed to reflect the change.

**Local Storage Logic**

Local storage is used to persist student data in the browser, even after refreshing or closing the tab.

Here’s the logic used to initialize and maintain data using local storage:

*let students = JSON.parse(localStorage.getItem('students')) || [];*

*- `localStorage.getItem('students')`:* Retrieves the data stored under the key 'students' as a JSON string.

*- `JSON.parse(...) ` :* Converts the JSON string into a JavaScript array of objects.

*- `|| [ ]` :* Ensures that if no data exists yet, the students variable initializes as an empty array.

**Clearing Local Storage**

To remove a specific item:

localStorage.removeItem('students');

To clear all items in local storage:

localStorage.clear();

**GitHub Repository**

You can access the full source code and project files at the following GitHub repository:

<https://github.com/Rathan97/Student-Registration-System>