STUDENT MANAGEMENT SYSTEM

Name: Neha Asole
Branch: Computer Science & Engineering
Project Type: Mini Project
Technologies: HTML, CSS, JavaScript

Aim

To design and develop a simple Student Management System that helps in managing student records digitally using web technologies.

Objectives

- To add student details
- To view and manage student records
- To search students using roll number
- To delete student records
- To store data using LocalStorage

Software Requirements

- Operating System: Windows / Linux
- Browser: Google Chrome
- Technologies: HTML, CSS, JavaScript
- Editor: VS Code / Notepad

Project Description

The Student Management System is a web-based application developed using HTML, CSS, and JavaScript. It allows users to add, search, and delete student records. LocalStorage is used to store data permanently in the browser.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Student Management System</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="container">
<h2>Student Management System</h2>
<form id="studentForm">
<input type="text" id="roll" placeholder="Roll Number" required>
<input type="text" id="name" placeholder="Student Name" required>
<input type="number" id="age" placeholder="Age" required>
<input type="text" id="course" placeholder="Course" required>
<button type="submit">Add Student</button>
</form>
<input type="text" id="search" placeholder="Search by Roll No" onkeyup="searchStudent()">
<table>
<thead>
<tr>
<th>Roll No</th>
<th>Name</th>
<th>Age</th>
<th>Course</th>
<th>Action</th>
</tr>
</thead>
<tbody id="studentTable"></tbody>
</table>
</div>
<script src="script.js"></script>
</body>
</html>
```

style.css

```
body{
font-family:Arial;
background:#eef2f7;
}
.container{
width:65%;
margin:40px auto;
background:white;
padding:25px;
}
table{
width:100%;
border-collapse:collapse;
}
th,td{
border:1px solid #ccc;
padding:10px;
text-align:center;
}
th{
background:#007bff;
color:white;
}
```

script.js

```
let students = JSON.parse(localStorage.getItem("students")) || [];
let table = document.getElementById("studentTable");

function displayStudents(){
table.innerHTML="";
students.forEach((s,i)=>{
let row = table.insertRow();
row.innerHTML = `<td>${s.roll}</td><td>${s.name}</td><td>${s.age}</td>
<td>${s.course}</td><td><button onclick="deleteStudent(${i})">Delete</button></td>`;
});
}

document.getElementById("studentForm").addEventListener("submit",function(e){
e.preventDefault();
students.push({roll:roll.value,name:name.value,age:age.value,course:course.value});
localStorage.setItem("students",JSON.stringify(students));
displayStudents();
this.reset();
});

function deleteStudent(i){
students.splice(i,1);
localStorage.setItem("students",JSON.stringify(students));
displayStudents();
}

function searchStudent(){
let v=document.getElementById("search").value;
for(let r of table.rows){
r.style.display=r.cells[0].innerText.includes(v)?"":"none";
}
}
displayStudents();
```

Conclusion

The Student Management System successfully manages student records digitally. This project helped in understanding basic web development concepts and client-side data storage using JavaScript.