HTML CODE

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Book Management System</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<h2>📚 Book Management System</h2>

<div>

<input type="text" id="bookNumber" placeholder="Book Number">

<input type="text" id="bookName" placeholder="Book Name">

<input type="text" id="authorName" placeholder="Author Name">

<input type="number" id="copies" placeholder="Copies">

<button onclick="addBook()">Add Book</button>

<button onclick="updateBook()" id="updateBtn" style="display:none;">Update Book</button>

</div>

<div>

<input type="text" id="searchBox" placeholder="Search by Name or Author" onkeyup="searchBooks()">

</div>

<h3>📖 Available Books</h3>

<table id="bookTable">

<tr>

<th>Book Number</th>

<th>Name</th>

<th>Author</th>

<th>Copies</th>

<th>Actions</th>

</tr>

</table>

<script src="script.js"></script>

</body>

</html>

JAVASCRIPTS CODE

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

let editIndex = -1; // To track book being edited

function addBook() {

let bookNumber = document.getElementById("bookNumber").value;

let bookName = document.getElementById("bookName").value;

let authorName = document.getElementById("authorName").value;

let copies = document.getElementById("copies").value;

if (bookNumber && bookName && authorName && copies) {

books.push({ bookNumber, bookName, authorName, copies });

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

displayBooks();

clearForm();

} else {

alert("Please fill in all fields!");

}

}

function displayBooks(filteredBooks = books) {

let table = document.getElementById("bookTable");

table.innerHTML = `<tr>

<th>Book Number</th>

<th>Name</th>

<th>Author</th>

<th>Copies</th>

<th>Actions</th>

</tr>`;

filteredBooks.forEach((book, index) => {

let row = table.insertRow();

row.insertCell(0).innerText = book.bookNumber;

row.insertCell(1).innerText = book.bookName;

row.insertCell(2).innerText = book.authorName;

row.insertCell(3).innerText = book.copies;

let actions = row.insertCell(4);

actions.innerHTML = `

<button onclick="editBook(${index})">✏️ Edit</button>

<button onclick="deleteBook(${index})">❌ Delete</button>

`;

});

}

function deleteBook(index) {

books.splice(index, 1);

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

displayBooks();

}

function editBook(index) {

let book = books[index];

document.getElementById("bookNumber").value = book.bookNumber;

document.getElementById("bookName").value = book.bookName;

document.getElementById("authorName").value = book.authorName;

document.getElementById("copies").value = book.copies;

editIndex = index; // Store index of book being edited

document.getElementById("updateBtn").style.display = "inline";

}

function updateBook() {

if (editIndex !== -1) {

books[editIndex].bookNumber = document.getElementById("bookNumber").value;

books[editIndex].bookName = document.getElementById("bookName").value;

books[editIndex].authorName = document.getElementById("authorName").value;

books[editIndex].copies = document.getElementById("copies").value;

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

displayBooks();

clearForm();

document.getElementById("updateBtn").style.display = "none";

editIndex = -1; // Reset edit index

}

}

function searchBooks() {

let query = document.getElementById("searchBox").value.toLowerCase();

let filteredBooks = books.filter(book =>

book.bookName.toLowerCase().includes(query) ||

book.authorName.toLowerCase().includes(query)

);

displayBooks(filteredBooks);

}

function clearForm() {

document.getElementById("bookNumber").value = "";

document.getElementById("bookName").value = "";

document.getElementById("authorName").value = "";

document.getElementById("copies").value = "";

}

// Display books on page load

displayBooks();

CSS STYLING

body {

font-family: Arial, sans-serif;

text-align: center;

margin: 20px;

background-color: #f4f4f4;

}

h2, h3 {

color: #333;

}

input, button {

margin: 5px;

padding: 10px;

}

button {

cursor: pointer;

background-color: #28a745;

color: white;

border: none;

padding: 10px;

}

button:hover {

opacity: 0.8;

}

table {

width: 80%;

margin: auto;

border-collapse: collapse;

background: white;

}

th, td {

padding: 10px;

border: 1px solid black;

}

th {

background-color: #007bff;

color: white;

}

td button {

margin: 5px;

}