

MINI PROJECT:

```
#html
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Library Management System</title>
```

```
  <link rel="stylesheet" href="style.css">
```

```
</head>
```

```
<body>
```

```
  <div class="container">
```

```
    <h1>Library Management System</h1>
```

```
    <!-- Add Book Section -->
```

```
    <div>
```

```
      <input type="text" id="title" placeholder="Book Title">
```

```
      <input type="text" id="author" placeholder="Author">
```

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

```
    </div>
```

```
    <!-- Search Section -->
```

```
    <div>
```

```
      <input type="text" id="searchInput" onkeyup="searchBooks()" placeholder="Search by title or author">
```

```
    </div>
```

```
    <!-- List of Books -->
```

```
    <ul id="bookList"></ul>
```

```
</div>
```

```
<script src="script.js"></script>
</body>
</html>
```

#css

```
body {
  font-family: Arial, sans-serif;
  background-color: #f5f5f5;
  margin: 0;
  padding: 0;
}

.container {
  max-width: 600px;
  margin: 20px auto;
  padding: 20px;
  background-color: #fff;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

h1 {
  text-align: center;
  color: #333;
}

input[type="text"] {
  width: 200px;
  padding: 8px;
  margin: 10px 5px;
  border: 1px solid #ddd;
  border-radius: 4px;
```

```
}
```

```
button {  
  padding: 10px 15px;  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  border-radius: 4px;  
  cursor: pointer;  
}
```

```
button:hover {  
  background-color: #45a049;  
}
```

```
ul {  
  list-style-type: none;  
  padding: 0;  
}
```

```
li {  
  background-color: #f0f0f0;  
  margin: 5px;  
  padding: 10px;  
  border-radius: 4px;  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
}
```

```
li button {
```

```
background-color: #f44336;
padding: 5px 10px;
color: white;
border: none;
border-radius: 4px;
cursor: pointer;
}
```

```
li button:hover {
    background-color: #e41c1c;
}
```

```
#java
```

```
// Array to store the books
```

```
let books = JSON.parse(localStorage.getItem('books')) || []; // Retrieve books from localStorage
```

```
// Function to add a book
```

```
function addBook() {
```

```
    // Get the title and author values from the input fields
```

```
    const title = document.getElementById('title').value;
```

```
    const author = document.getElementById('author').value;
```

```
    if (!title || !author) {
```

```
        alert("Please fill in both fields.");
```

```
        return;
```

```
    }
```

```
// Create a book object
```

```
const book = { title, author };
```

```
// Add the book to the array
```

```
books.push(book);

// Save the updated books array to localStorage
localStorage.setItem('books', JSON.stringify(books));

// Clear the input fields
document.getElementById('title').value = "";
document.getElementById('author').value = "";

// Display the updated book list
displayBooks(books);
}

// Function to display the books in the list
function displayBooks(books) {
    // Get the <ul> element where books will be displayed
    const bookList = document.getElementById('bookList');
    bookList.innerHTML = ""; // Clear the existing list

    // Loop through the books array and create <li> elements for each book
    books.forEach((book, index) => {
        const li = document.createElement('li');
        li.innerHTML = `${book.title} by ${book.author} <button
onclick="deleteBook(${index})">Delete</button>`;
        bookList.appendChild(li);
    });
}

// Function to delete a book
function deleteBook(index) {
    // Remove the book from the array
```

```
books.splice(index, 1);

// Save the updated books array to localStorage
localStorage.setItem('books', JSON.stringify(books));

// Display the updated book list
displayBooks(books);
}

// Function to search for books by title or author
function searchBooks() {
  // Get the search input value
  const searchInput = document.getElementById('searchInput').value.toLowerCase();

  // Filter the books array based on the search input
  const filteredBooks = books.filter(book =>
    book.title.toLowerCase().includes(searchInput) ||
    book.author.toLowerCase().includes(searchInput)
  );

  // Display the filtered books
  displayBooks(filteredBooks);
}

// Initial call to display the books when the page loads
displayBooks(books);
```

Output:

Library Management System

Book Title

Author

Add Book

Search by title or author

| | |
|------------------------------|--------|
| selection by varsha | Delete |
| harry potter by J.K rowling | Delete |
| THE ALMOND by SOHN WON-TYUNG | Delete |