Project Title: Library Management**1. Overview**

Library Management is a lightweight web application built only with **HTML**, **CSS** and **JavaScript**. It enables users to add, view, change and remove book entries directly in their browser. All information is stored locally in the browser's **localStorage**, so there is no need for an online database or server.

This is a small demonstration of a CRUD (Create, Read, Update, Delete) system. It's meant as a learning aid, a simple practice exercise or for maintaining small personal book lists.

2. Aim

This project's aim is to demonstrate, in a simple way, how to:

- Collect book details through a form
- Display those details in a structured table
- Allow users to modify or delete any entry
- Keep the list intact after the page reloads using localStorage

Because it is 100% client-side, it will still work offline once the files are downloaded.

3. Main Functions

- **Adding Books:** Users enter Title, Author, Year and ISBN and click "Add". The entry appears instantly in the list and is saved.
- **Viewing Books:** All stored records are shown in an organised table with all key details.
- **Editing Books:** Each row has an "Edit" button that opens quick prompts to change values.
- **Deleting Books:** "Delete" removes the chosen row after a confirmation.
- **Persistent Storage:** The browser keeps all data under the key simple_lib_books_v1, so it stays even after the window is closed.

4. Project Files

- index.html – contains the form, the table structure and links to style and script files.
- styles.css – provides the layout, colours, fonts and other design elements.

- script.js – holds the JavaScript code that manages input, output and localStorage.

All three should sit together in the same folder to work properly.

5. How the Data Works

Each book is stored as a simple object:

```
{
  "title": "Book Styles",
  "author": "Book Author Name",
  "year": "2000",
  "isbn": "123123456"
}
```

The app keeps all these objects in an array and saves it as JSON in the browser.

6. Steps to Use

1. Create a folder on your computer.
2. Copy index.html, styles.css and script.js into it.
3. Open index.html with Chrome, Firefox or Edge.
4. Add some books — they'll appear in the table.
5. Close and reopen — your books remain.

7. Possible Improvements

- **Extra Fields:** Include genre, publisher, or other details in the form and table.
- **Better Editing Interface:** Replace prompt boxes with a small popup or inline form.
- **Server Storage:** Swap localStorage for API calls to allow multiple users.
- **New Design:** Adjust styles.css for different colours, fonts and layout.

8. Helpful Hints

- The list starts empty — add at least one book to see it.
- To erase everything: open browser developer tools → Application → Local Storage and delete simple_lib_books_v1.
- It's completely local, so you can experiment without harming any real data.

9. Short Description for Reports

"Library Management is a simple web app using HTML, CSS and JavaScript to demonstrate Create, Read, Update and Delete operations with browser localStorage. It lets users add, view, edit and delete book entries without needing a server. It's ideal for learning and small demonstrations."

10. Final Note

This small project is an easy model of a CRUD application built purely on the front end. It helps newcomers learn about forms, tables, JavaScript code and browser storage. It can also act as a foundation for more advanced systems.