

Library Management System

Nishant Rana

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Introduction

The Library Management System is a JavaScript tool designed to help you manage a library's book collection through a simple command-line interface (CLI). This system allows you to add new books by entering details such as the title, author, and publication year. It also lets you search for books by title or author, making it easy to find specific items. Additionally, you can view a complete list of all books in your collection. The system uses clear prompts and alerts to guide you through each task, ensuring a user-friendly experience.

Objective

- **Improve JavaScript Skills:** Gain hands-on experience with JavaScript by working on a real-world project, focusing on functions, arrays, and user interactions through prompts and alerts.
- **Understand Basic Program Design:** Learn how to structure and organize a simple application, including managing data with arrays, handling user input, and implementing basic features like adding, searching, and listing items.
- **Practice Problem-Solving:** Develop problem-solving skills by addressing common programming challenges, such as ensuring user-friendly interactions, validating inputs, and managing application flow.

Features

- **Adding New Books:** Allows users to enter details for new books, including the title, author, and publication year. Users can continuously add multiple books until they choose to stop, making it easy to expand the book collection.
- **Searching for Books:** Enables users to search for books by title or author. The search results are displayed directly, showing detailed information about matching books.
- **Listing All Books:** Provides a complete view of all books in the collection. The system filters out books with the title "Untitled," ensuring that only relevant book titles are shown, which helps in efficiently managing and reviewing the catalogue.

Instruction to run

Download and Place Files:

- Download or create both libraryManagementSystem.js and index.html files.
- Ensure both files are saved in the same folder on your computer.

Open the HTML File:

- Double-click on index.html or right-click it and choose "Open with" to open it in your preferred web browser (e.g., Chrome, Firefox, Edge).

Interact with the System:

- A welcome alert will appear introducing the Library Management System.
- Follow the prompts to add books, search for them, or view the book list.

Add Books:

- Respond to prompts to enter details for new books like the title, author, and publication year.
- You can add multiple books until you choose to stop.

Search for Books:

- Choose to search by title or author and enter the details as prompted.
- Search results will be displayed directly on the web page.

View the Book List:

- You can view a complete list of all books stored in the system.
- The list will exclude books with the title "Untitled."

Finish:

- Follow the prompts to exit the system.
- A final message will thank you for using the application and provide any last information.