



Library Management System

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What is it?

- ▶ The Library Management System (or LMS) is simply a way to digitize a library's analog records and functions. Users can perform the same functions they would in a normal library:
- ▶ browsing the books,
- ▶ checking something out,
- ▶ returning a book,
- ▶ requesting a hold for an already checked-out book,
- ▶ etc.

How does it work?

- ▶ The LMS is mainly composed of three parts: the frontend, the backend, and the database.
- ▶ The frontend is made up of the usual web dev kit: HTML, CSS, JavaScript. JQuery is also there. I may use it in the future.
- ▶ The backend is NodeJS using Express for delivery. It also uses the MySQL module to query the database.
- ▶ The database is MySQL. It was made in MySQL Workbench and exported to SQL files available in the code repository.
- ▶ The backend queries the database and sends it to the frontend which displays the query results.
- ▶ (It doesn't do it yet, but the frontend will soon be able to edit the database via ajax/fetch.)

Who is it for?

- ▶ Everyone who wants to use a library.
- ▶ Members are those who simply come to check out books and the like.
- ▶ Staff make sure everything runs smoothly, accomplishing tasks like adding and modifying books and creating member accounts.
- ▶ Administrators have near complete control. It's basically the person in charge.
- ▶ Users are just visitors who can view the books but can't do anything with them. (Not yet implemented.)

Presentation Roadmap

- ▶ 1. Slides
- ▶ 2. Database
- ▶ 3. Website
- ▶ 4. Future Plans