

Web project team “A world without capitalism”

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Problem Statement:

The following project will be about a website for a library, that helps members keep track of their books and the owned ones and help admins keep tracks and records, the website is a substitute of the manual work(spread sheets and manual logs).Its an online platform to manage books, members, borrowing, returns, and reports. Mention that it improves efficiency for staff and makes it easier for users to find and borrow books. This solves the problems of inefficiency and data loss that occur when using traditional methods.

Desired outcomes (Objectives):

- Log in feature for members and admins
- A list of enlisted books and a brief description of the book, author and price
- A page for admins that show members and their membership
- A page for admins that shows the loans and fees
- Book catalog with search and filters
- borrowing and return management –
- Fine calculation system –
- Reservation system for unavailable books

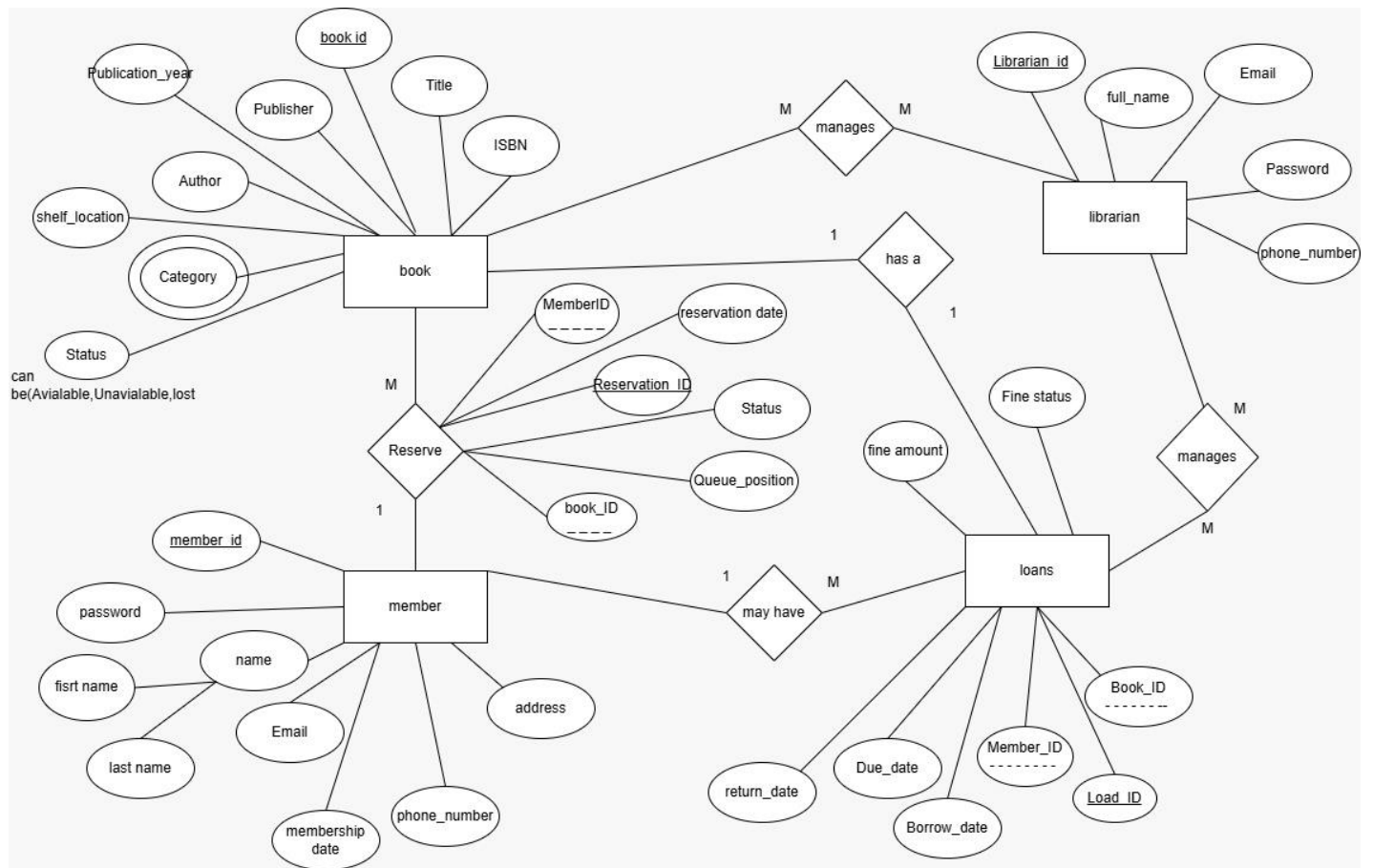
- Generate reports on most borrowed books and member activity

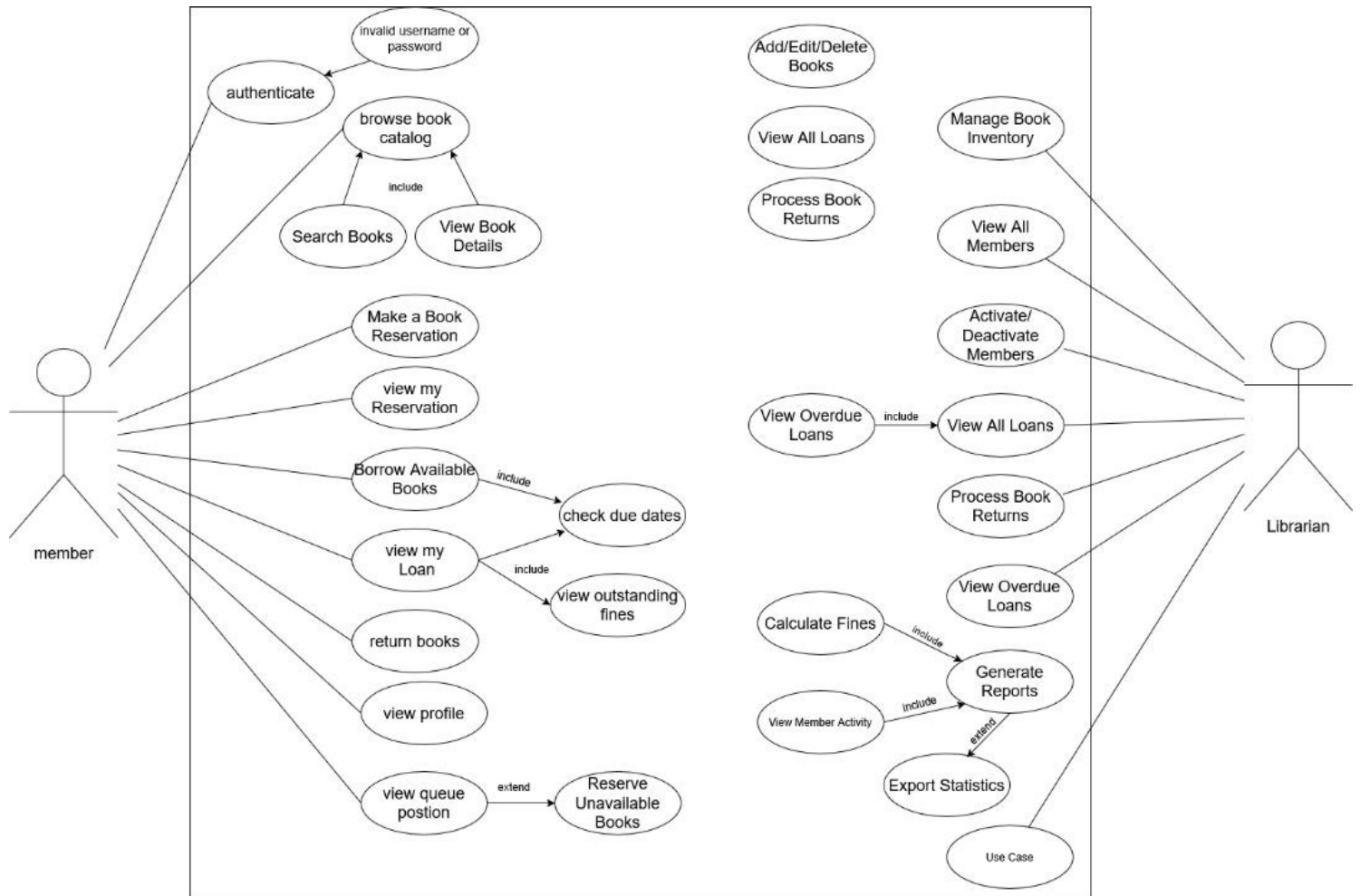
In more detail:

Member registration and authentication: Forms to create member accounts, login system, and role-based access (members vs librarians/admins).

- Book catalog with search and filters: A browsable catalog with fields like title, author, ISBN, category, and status, plus search bar and filters.
- Borrowing and return management: Screens for issuing, renewing, and returning books, showing due dates and current loans per member.
- Fine calculation system: Automatic fine calculation, display of outstanding fines in member accounts, and options for admins to adjust or clear fines.(there will be a fine on a member when he exceeds the borrowing duration)
- Reservation system for unavailable books: Ability to place and manage reservations, with queue ordering and notification when the book is returned.
- Admin panel for librarians: Administrative dashboard for managing books, members, circulation, and system settings (loan limits, fine rates, etc.).
- Reports and statistics: Reports such as most borrowed books, overdue items, active/inactive members, and inventory status, possibly with charts.

Analysis & Design (ERD, USE case diagram):





The project repository in GitHub:

<https://github.com/Monzir995/WEP-PROJECT.git>