

WIPRO NGA Program – Java FSD Angular

Capstone Project Presentation – 23rd Sept 2024

Project Title Here - Library Management System

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Problem Statement-

Develop a Library Management System with Angular for the frontend and Spring Boot for the backend, utilizing a microservices architecture. Implement CRUD operations for books, user booking management, and ensure real-time availability while optimizing performance and creating thorough documentation.





Project Structure -

Frontend: Developed using Angular, HTML5, CSS3, and Javascript.

Component: User Management, Book Listings, Borrowing,

Notification.

Backend: Spring Boot Microservice Architecture.

RESTful APIs for communication between frontend and backend.

Database: MySQL for managing Users, Books, Borrowing details.

API Gateway: Manages Routing, authentication and cross-cutting

concerns.



Technology Stack Used -

Frontend: Angular, TypeScript, HTML5, CSS3

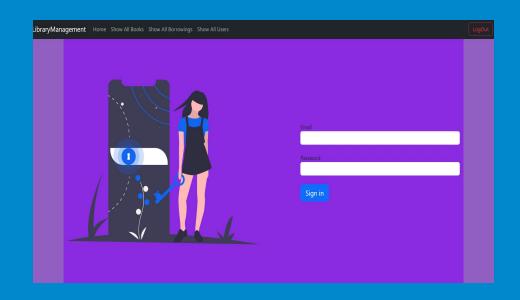
Backend: Spring Boot (Java), RESTful APIs

Database: MySQL

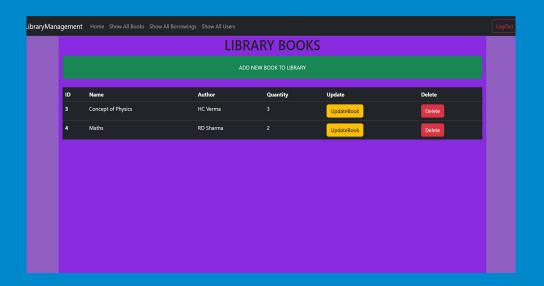
Tools: Maven, Git, Postman (for testing)

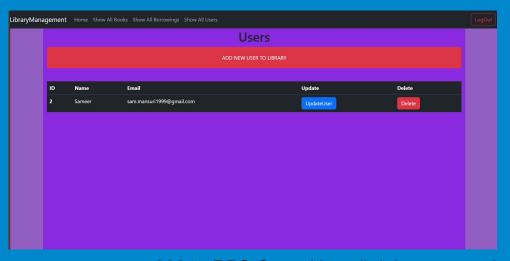


Demo of the Project -









Future Scope of the Project -

Mobile Application Integration:

 Develop a mobile app version for Android and iOS to allow users to manage their library accounts and books on the go.

Al-Based Book Recommendations:

 Integrate AI/ML algorithms to provide personalized book recommendations based on user borrowing history and preferences.

Multi-Language Support:

 Add support for multiple languages to make the system more accessible to a wider user base, especially in diverse regions.

