**Library Management System using** **Spring Boot**

Prepare the Environment:

1. Java-> 21,
2. And MYSql -> Create a Schema with name librarymanagementsystem
3. Go to application .properties and set you database username and password

The System I assume the each Patron can only borrowing one book

**How to use the apis:**

First you will go to the PublicController to make a AdminRegister and login apis

1. Post (“/public/RegisterAdmin)-> with body of userName and password will return a ResponsEntity with status code and String of the message of the code
2. Post (“/public/RegisterAdmin)-> with body of userName and password will return a ResponsEntity with status code and String of token if Success and message with the error

And than you will take the Token and add it to Authorization in postman as a Bearer Token ts

I attached with the application a Postman Collection with all apis

● Book management endpoints:

● GET /api/books: Retrieve a list of all books.

● GET /api/books/{id}: Retrieve details of a specific book by ID.

● POST /api/books. With body of String author and title and localDate of publicationYear

● PUT /api/books/{id}: With body of String author and title and localDate of publicationYear.

● DELETE /api/books/{id}: Remove a book from the library.

**● Patron management endpoints:**

● GET /api/patrons: Retrieve a list of all patrons.

● GET /api/patrons/{id}: Retrieve details of a specific patron by ID.

● POST /api/patrons: With body of String name and contactInformation

● PUT /api/patrons/{id }With body of String name and contactInformation

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● DELETE /api/patrons/{id}: Remove a patron from the system.

**● Borrowing endpoints:**

● POST /api/borrow/{bookId}/patron/{patronId}: without body

It will store the localDateTime for the operation and set the status with NotReturned

● PUT /api/return/{bookId}/patron/{patronId}: without body

It will store the localDateTime for the operation and set the status with Returned