Documentation for Spring Boot Library System

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1. Prerequisites

Before you can run the application, ensure you have the following installed:

- Java JDK 17 or later

- Maven (for building the project)

- An IDE (like IntelliJ IDEA or Eclipse) or a terminal to run commands

2. Running the Application

1. Clone the Repository:

Clone the repository from your version control system (e.g., GitHub).

```bash

git clone <repository-url>

cd library-system

```

2. Build the Project:

Use Maven to build the project. This will download the necessary dependencies.

```bash

mvn clean install

```

3. Run the Application:

You can run the application with the following command:

```bash

mvn spring-boot:run

```

By default, the application will run on `http://localhost:8080`.

3. API Endpoints

Here are some example endpoints for the library system:

- \*\*GET /api/books\*\*: Retrieve a list of all books.

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

- \*\*POST /api/books/add\*\*: Add a new book.

- \*\*PUT /api/books/update/{id}\*\*: Update an existing book.

- \*\*DELETE /api/books/delete/{id}\*\*: Delete a book by ID.

5. Caching

Conclusion

This documentation provides a guide on how to run the application, interact with API endpoints, and use authentication methods.