***Application for a book library***

My application is made for a book library. First, the user can log in and then they will go to the second page, in which a series of actions is possible: get a book by its title, get all books, get the reviews of a book based on its title and borrow a book. Also, the user can logout. The frontend of the application is implemented in Angular and is composed of two components, one for the login and one for the book management. The frontend communicates with the backend through an API Gateway, which was made with Spring. The gateway communicates with the other microservices, all implemented with Spring Boot. The microservices are: Book, Review and User. Communication with message brokers with RabbitMQ is enabled between the Book and Review components; each time a call to get a book by its title is made, the Review component will show information about that book(to show interest in that book for instance). The solution was deployed with Docker, and for each element of the application a container was created.

***Diagrams:***

C4 diagram of the entire system

A diagram of a diagram

Description automatically generated with medium confidence

Uml diagrams of each microservice:

Book:

***A screenshot of a computer

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Review:

A screenshot of a computer

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User:

A screenshot of a computer

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