**Online Book Library Application**  
----------------------------------------------------------------------------------------------------------------------------

Your goal is to design and develop an **Online Book Library** application. This application will be a back-end only application. So no front-end is required. Just creating the REST end-points is enough.

All the REST end-points of this application need to be protected using **Spring Security role based authentication**. Also use MySQL for the DB.

The application will have the below API / REST end-points:

* **/user/register:**This end-point will register an user with user information: firstName, lastName, email, password, address.
* **/user/login:** This end-point will login with user email and password and will return a token as response. User email should be present at payload data.
* **/books/all:** This end-point will fetch and show all the books data stored in the database. User must have either “ADMIN” or “CUSTOMER” role to use this API.
* **/books/id/{bookId}:** This end-point will a particular book by “bookId” from the database. User must have either “ADMIN” or “CUSTOMER” role to use this API.
* **/books/author/{authorName}:** This end-point will a particular book by “authorName” from the database. User must have either “ADMIN” or “CUSTOMER” role to use this API.
* **/books/create:** This end-point will be used to add new book to the database. User must have “ADMIN” role to use this API.
* **/books/update:** This end-point will be used to update a book’s data that is already saved in the database. User must have “ADMIN” role to use this API.
* **/books/delete:** This end-point will be used to delete a book from the database. User must have “ADMIN” role to use this API.

**N.B:** Please read the requirement carefully and create the necessary Java classes for this application according to your understanding.