***“Mentor session”***

**Problem Statement:**

The Library Management wants to create a simple database where they can perform some operations for the table. Help the management to create a table called Books with the following columns.

Columns are:

| **Column Name** |
| --- |
| Book Id (Auto Increment) |
| Name |
| Author |
| Category |

**Sample Table**

| **Id** | **Name** | **Author** | **Category** |
| --- | --- | --- | --- |
| 1 | Java | Java | Programming |
| 2 | Nimona | Noelle Stevenson | Comic |
| 3 | Python | Python | Programming |

Create a Spring Boot based Maven project and allow the user to perform the following operations.

1. **View** all records from the database table.
2. **Insert** new records into the table.
3. **Update** existing record in the table.
4. **Delete** existing records from the table.
5. **Search** for books based on Author and name.
6. Wrap a security layer onto the Project so that the Roles (ADMIN/USER) would be able to access their corresponding pages.
7. ADMIN should be able to do all operations, whereas USER should be able to only Insert and View Book details but not update,delete.
8. Use SpringJPA for the ORM Implementation.