

# Book Management Application

Prepared by: Shraddha Gavkare

## Database Screenshots:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1 x roadready\_db\*

Limit to 1000 rows

```
1 • show databases;
2
3 • use bookapi;
4 • show tables;
5
6 • select * from book;
7 • select * from user;
```

Output

Action Output

#	Time	Action	Message
✓ 1	21:32:29	use bookapi	0 row(s) affected

Query 1 x roadready\_db\*

Limit to 1000 rows

```
3 • use bookapi;
4 • show tables;
```

Result Grid

Tables_in_bookapi
book
user

Result 1 x

Output

Action Output

#	Time	Action	Message
✓ 1	21:32:29	use bookapi	0 row(s) affected
✓ 2	21:33:21	show tables	2 row(s) returned

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1 x roadready\_db\*

Limit to 1000 rows

```
1 • show databases;
2
3 • use bookapi;
4 • show tables;
5
6 • select * from book;
7 • select * from user;
```

Result Grid

	isbn	author	publication_year	title
▶	0000967890	shreekrishna	1900	Geeta
	1234567890	Shraddha Gavkare	2024	Java Spring Boot
	781491950296	Martin Kleppmann	2017	Designing Data-Intensive App
	789	shraddha	2003	Java Backend
	9780131103627	Paulo Coelho	1993	The Alchemist
	9780132350884	Robert C. Martin	2008	Clean Code
	9781259862252	Herbert Schildt	2018	Java: The Complete Reference
	9788173711466	A.P.J. Abdul Kalam	1999	Wings of Fire
*	NULL	NULL	NULL	NULL

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1 x roadready\_db\*

Limit to 1000 rows

```

1 • show databases;
2
3 • use bookapi;
4 • show tables;
5
6 • select * from book;
7 • select * from user;

```

Result Grid

	id	email	password	role
▶	1	admin@example.com	\$2a\$10\$.JCXl7RSLpqP2BXVdrRmSevsknrIFEGz/...	ADMIN
	2	testuser@example.com	\$2a\$10\$6EhstAp5EEJj4uqQLMTuwplNeOMlGS...	USER
	3	rahul@gmail.com	\$2a\$10\$pd2iZvGzapRZi2OBhE0TeeYga8gYXmW...	USER
	4	swami@gmail.com	\$2a\$10\$uYdPxKjR8CVyFGM.vkUUpTzKq9qz7D...	USER
	5	swamis@example.com	\$2a\$10\$82G8afYwI/9swc.mqHHbt.I9D8IFFIx.w...	USER
	6	akshay@gmail.com	\$2a\$10\$6ayJhpMSB/VbGE9Tsm/fvOIC/.2XniUsP...	USER
*	NULL	NULL	NULL	NULL

Backend is working fine:

workspace-spring-tools-for-eclipse-4.30.0.RELEASE - BookManagement\_APP\src/main/java/com/example/demo/BookManagementAppApplication.java - Spring Tools for Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- BookManagement\_APP [boot] [devtools]
- Books [boot] [devtools]
- CouponService [boot] [devtools]
- CouponService-1 [boot]
- FSD\_demo [boot] [devtools]
- H2CrudApp [boot] [devtools]
- MyFirstMavenApp
- Product\_Management [boot] [devtools]
- ProductService-1 [boot]
- property-booking-app [boot] [devtools]
- Roadready\_Backend [boot] [devtools]
- SingletonDemo1
- SpringBoot\_EurekaClient01 [boot] [devtools]
- SpringBoot\_EurekaClient02 [boot] [devtools]
- SpringBoot\_EurekaServer [boot] [devtools]
- SpringBoot\_SecurityFramework [boot] [devtools]
- springboot-backend [boot] [devtools]
- springboot-crud-test [boot] [devtools]
- SpringBootDemo04 [boot] [devtools]
- SpringBootDemo01 [boot] [devtools]
- SpringBootDemo2 [boot] [devtools]
- SpringBootDemo3 [boot] [devtools]
- SpringBootValidator [boot] [devtools]
- SpringCommunication1 [boot] [devtools]
- SpringCommunication3 [boot] [devtools]
- SpringCommunication4 [boot] [devtools]
- SpringData\_Authentication [boot] [devtools]
- SpringData\_Authentication\_Practice [boot] [devtools]

Console

```

:: Spring Boot ::
(v3.2.5)

2025-07-11T21:35:49.368+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] c.e.demo.BookManagementAppApplication : Starting BookManagementAppAppl
2025-07-11T21:35:49.372+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] c.e.demo.BookManagementAppApplication : No active profile set, falling
2025-07-11T21:35:49.485+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : DevTools property defaults act
2025-07-11T21:35:49.486+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : For additional web related log
2025-07-11T21:35:52.369+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA
2025-07-11T21:35:52.933+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repositor
2025-07-11T21:35:52.933+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.cloud.context.scope.GenericScope : BeanFactory id=2001939d-543c-3
2025-07-11T21:35:53.829+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9
2025-07-11T21:35:53.852+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-11T21:35:53.853+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apac
2025-07-11T21:35:54.009+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded W
2025-07-11T21:35:54.010+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: in
2025-07-11T21:35:54.268+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing Persiste
2025-07-11T21:35:54.375+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] org.hibernate.Version : HHH000412: Hibernate ORM core
2025-07-11T21:35:54.450+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.h.c.internal.RegionFactoryInitiator : HHH000026: Second-level cache
2025-07-11T21:35:54.584+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.o.j.p.SpringPersistenceUnitInfo : No LoadTimeWeaver setup: ignor
2025-07-11T21:35:54.911+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2025-07-11T21:35:55.454+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Added connectio
2025-07-11T21:35:55.458+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed
2025-07-11T21:35:55.606+05:30 WARN 3088 --- [BookManagement_APP] [ restartedMain] org.hibernate.orm.deprecation : HHH0000025: MySQL8Dialect doe
2025-07-11T21:35:55.609+05:30 WARN 3088 --- [BookManagement_APP] [ restartedMain] org.hibernate.orm.deprecation : HHH0000026: MySQL8Dialect has
2025-07-11T21:35:57.310+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000489: No JTA platform ava
2025-07-11T21:35:57.401+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerF
2025-07-11T21:35:58.378+05:30 WARN 3088 --- [BookManagement_APP] [ restartedMain] jpahaseConfigurations$paahWebConfiguration : spring.jpa.open-in-view is ena
2025-07-11T21:35:58.461+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running o
2025-07-11T21:35:58.998+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.s.web.DefaultSecurityFilterChain : Will secure any request with [
2025-07-11T21:35:59.730+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9090 (h
2025-07-11T21:35:59.757+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] c.e.demo.BookManagementAppApplication : Started BookManagementAppAppli

```

BOOK management application working fine

Problems @ Javadoc Declaration Console × SonarQube On-The-Fly

BookManagement\_APP - BookManagementAppApplication [Spring Boot App] C:\Users\LENOVO\Downloads\spring-tools-for-eclipse-  
 :: Spring Boot :: (v3.2.5)

```

2025-07-11T21:35:49.368+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] c.e.demo.BookM
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2025-07-11T21:35:49.485+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] .e.DevToolsPro
2025-07-11T21:35:49.486+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] .e.DevToolsPro
2025-07-11T21:35:52.038+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] .s.d.r.c.Repos
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2025-07-11T21:35:53.829+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.b.w.embedd
2025-07-11T21:35:53.852+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.apache.catal
2025-07-11T21:35:53.853+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.apache.catal
2025-07-11T21:35:54.009+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.a.c.c.C.[Tom
2025-07-11T21:35:54.010+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] w.s.c.ServletW
2025-07-11T21:35:54.268+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.hibernate.jp
2025-07-11T21:35:54.375+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] org.hibernate.
2025-07-11T21:35:54.450+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.h.c.internal
2025-07-11T21:35:54.854+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.o.j.p.Spr
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2025-07-11T21:35:58.378+05:30 WARN 3088 --- [BookManagement_APP] [ restartedMain] JpaBaseConfigu
2025-07-11T21:35:58.461+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.b.d.a.Opti
2025-07-11T21:35:58.998+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.s.web.Defai
2025-07-11T21:35:59.730+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] o.s.b.w.embedd
2025-07-11T21:35:59.757+05:30 INFO 3088 --- [BookManagement_APP] [ restartedMain] c.e.demo.BookM
Book management application working fine
  
```

Application.Properties file:

```

spring.application.name=BookManagement_APP
# --- Server ---
server.port=9090
# --- Database ---
spring.datasource.url=jdbc:mysql://localhost:3306/bookapi
spring.datasource.username=root
spring.datasource.password=Shraddha@2003
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
# --- JPA Hibernate ---
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
# --- Swagger/OpenAPI (Optional for Springdoc v2.2.0+) ---
springdoc.api-docs.path=/v3/api-docs
springdoc.swagger-ui.path=/swagger-ui.html
# --- Logging (Optional) ---
logging.level.org.springframework=INFO
  
```

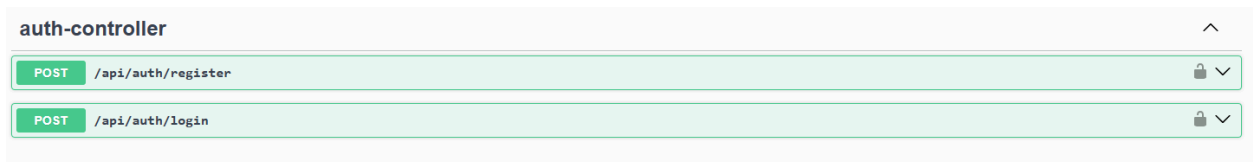
## Swagger URL:

[\*\*http://localhost:9090/swagger-ui/index.html#/\*\*](http://localhost:9090/swagger-ui/index.html#/)




The image shows the Swagger UI interface for the 'Book Management API'. The browser address bar displays 'localhost:9090/swagger-ui/index.html#/'. The Swagger logo is in the top left, and a search bar contains '/v3/api-docs'. A green 'Explore' button is in the top right. The main heading is 'Book Management API' with version '1.0' and 'OAS 3.0' tags. Below it, the description reads 'API for managing books with JWT authentication'. A 'Servers' section shows 'http://localhost:9090 - Generated server url'. An 'Authorize' button with a lock icon is on the right. A list of controllers is shown: 'controller-2', 'book-controller', and 'auth-controller', each with a dropdown arrow.

### 1) Auth- Controller:



The image shows the Swagger UI interface for the 'auth-controller'. The controller name is at the top. Below it, two API endpoints are listed: 'POST /api/auth/register' and 'POST /api/auth/login'. Each endpoint has a lock icon and a dropdown arrow.

### a) Auth Registration:



The image shows the Swagger UI interface for the 'Auth Registration' endpoint. The 'Responses' section is expanded, showing the '200' status code. The 'Request URL' is 'http://localhost:9090/api/auth/register'. The 'Server response' section shows the 'Response body' as a JSON object: 

```
{  "id": 7,  "email": "shraddhagavkare13@gmail.com",  "password": "$2a$10$RC1pgyRf10K1/J22muJNge0ELDBcVIAVH1lWm/XcZH4GP1XP8Ka",  "role": "USER"}
```

. A 'Download' button is at the bottom right.

### b) Auth-Login (Token generation):

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:9090/api/auth/login' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "email": "shraddhagavkare13@gmail.com",
    "password": "shraddha@2003"
  }'
```

Request URL

<http://localhost:9090/api/auth/login>

Server response

Code	Details
200	<p>Response body</p> <pre>{   "token": "eyJhbGciOiJIUzI1NiJ9.eyJzdiI0IjzaHJhZGRoYXN0bWVpY201CjYb2x1Ijo1VWVNFUIsIm1hdCI6MTc1MjI1MDQ4MiwiaXNjaXo6dXUyMjg2NDgyfQ.LRQxsA3RMElyAZFTjYoZjY7Z0b7j1G0e-xecB_kCnRM",   "role": "USER" }</pre> <p>Download</p>

## 2) Authorization in Swagger:

### Available authorizations ✕

**bearerAuth (http, Bearer)**

Value:

eyJhbGciOiJIUzI1NiJ9.eyJzdiI0IjzaHJhZGRoYXN0bWVpY201CjYb2x1Ijo1VWVNFUIsIm1hdCI6MTc1MjI1MDQ4MiwiaXNjaXo6dXUyMjg2NDgyfQ.LRQxsA3RMElyAZFTjYoZjY7Z0b7j1G0e-xecB\_kCnRM

Authorize

Close

### Available authorizations ✕

**bearerAuth (http, Bearer)**

Authorized

Value: \*\*\*\*\*

Logout

Close

## 3) Book Controller:



