ONLINE BOOK STORE

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INTRODUTION

The online Bookstore is a revolution of book industry. The main objective of this project is to design a online bookstore where customer can buy books from online. We develop a code to add books, update new books, insert new book and delete the books in the book store.

TECHNOLOGIES USED

Frontend

- Postman

Backend

- Spring Boot
- Hibernate
- MySQL

FUNCTIONALITIES

- Entity
- Controller
- Service
- Repository

USER HAVE THE FOLLOWING ACCESS

- Add New Books
- View Books Available
- Delete Books
- Update Books
- Increase Book quantity

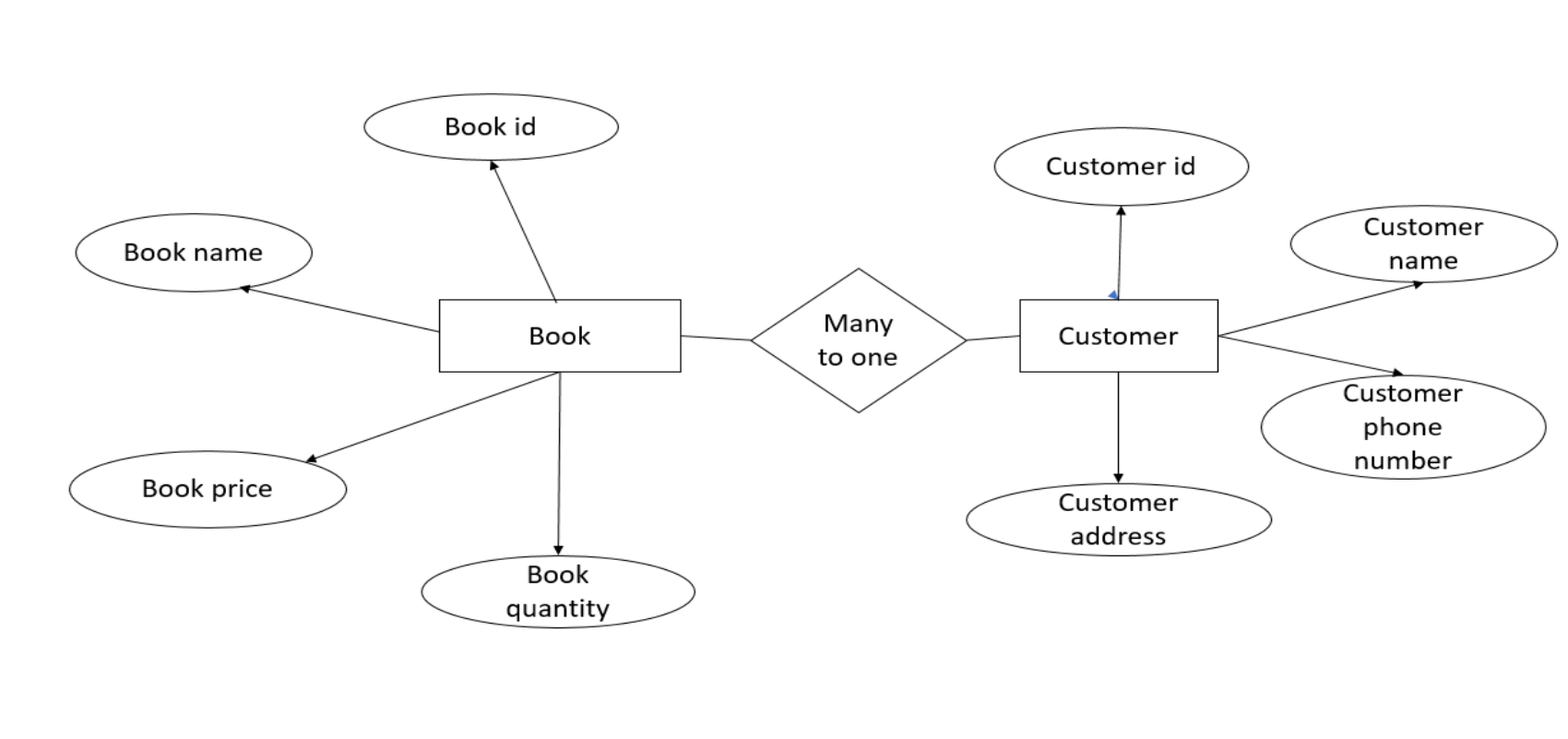
ANNOTATIONS USED

- @Spring Boot Application
- @Rest Controller
- @Auto wired
- @Path Variable
- @Get Mapping
- @Post Mapping
- @Delete Mapping

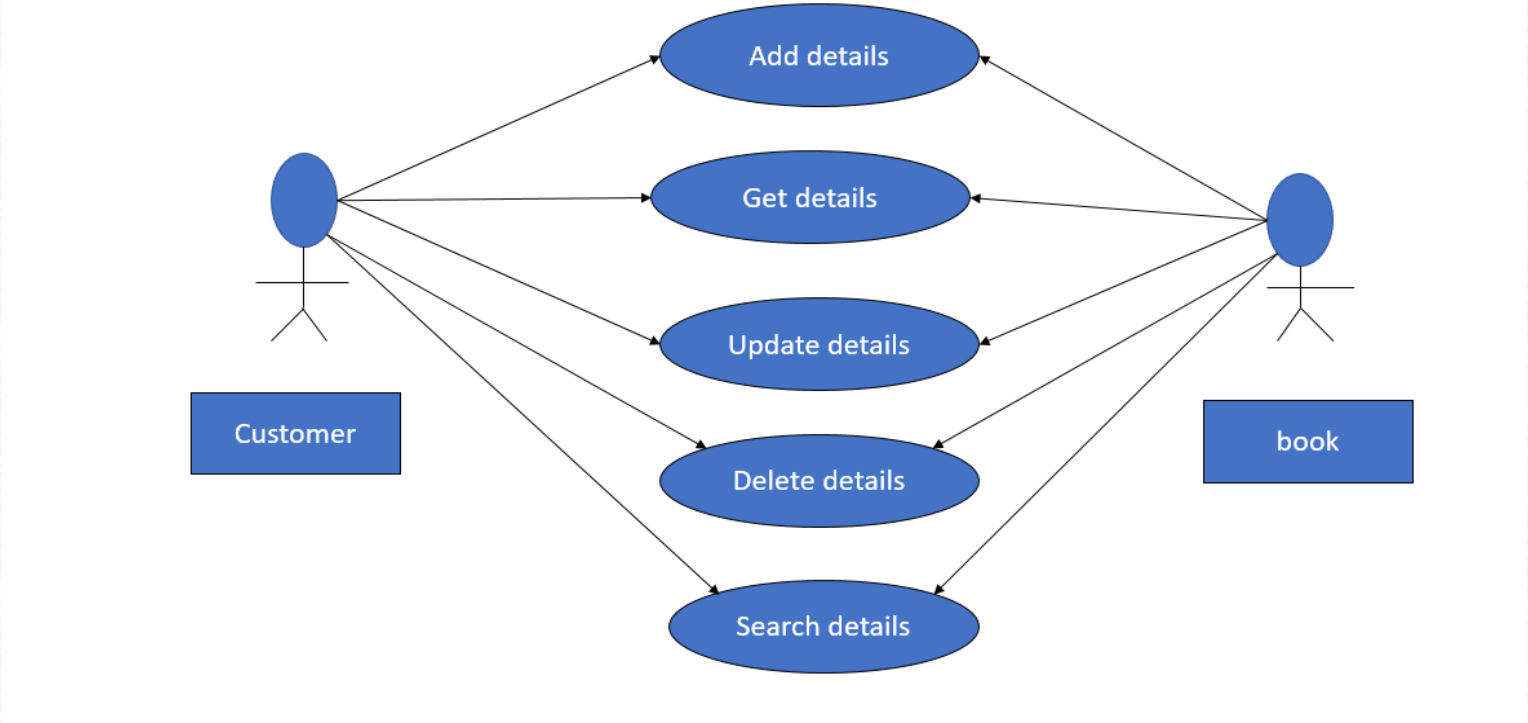
These are Annotations used in Entity

- @Entity
- @Id
- @Generated value
- @Join column
- @Many to one
- @One to many

ENTITY DIAGRAM



USECASE DIAGRAM



SPRING BOOT APPLICATION OUTPUT

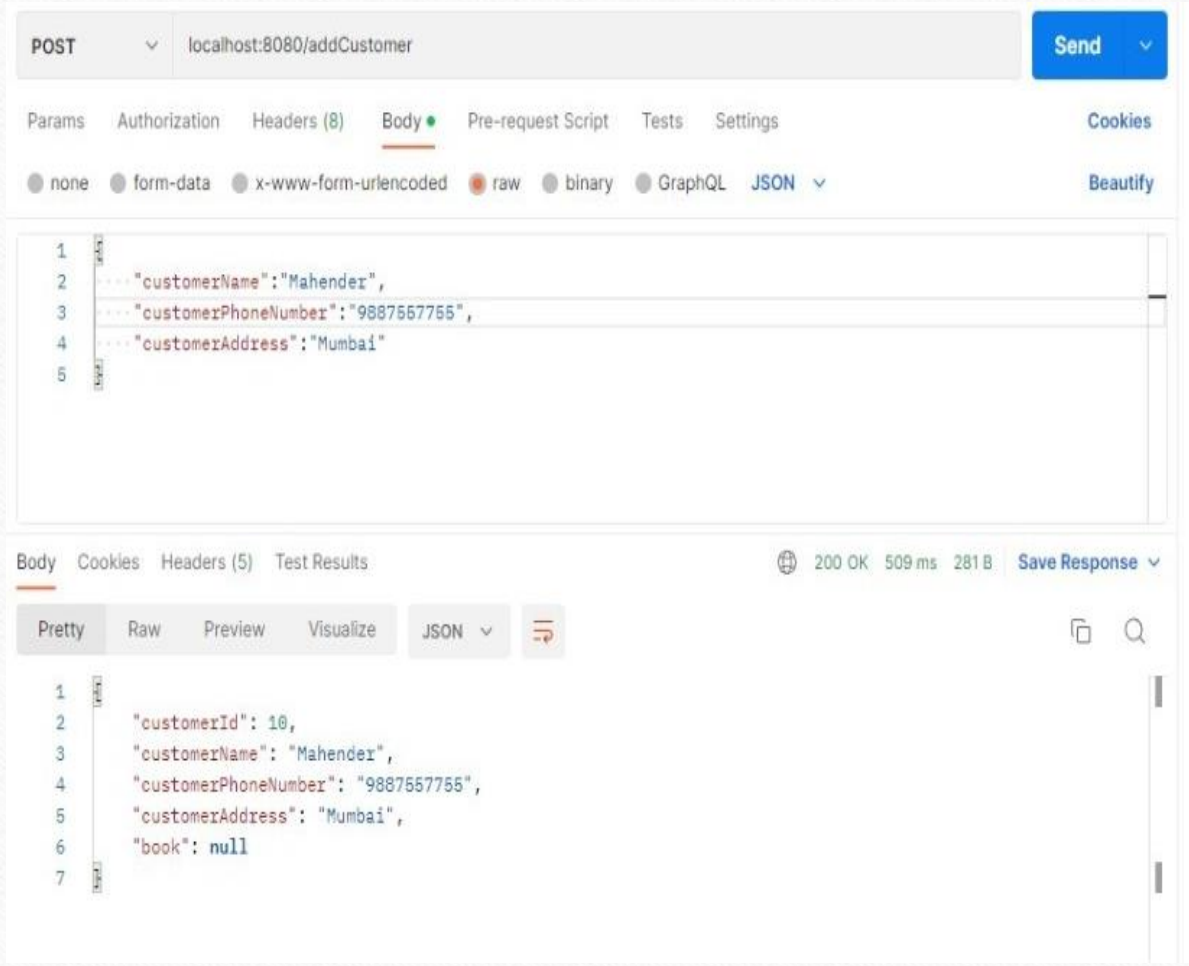
Console ×

OnlineBookStoreProjectApplication [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (Sep 22, 2022, 5:19:23 PM)

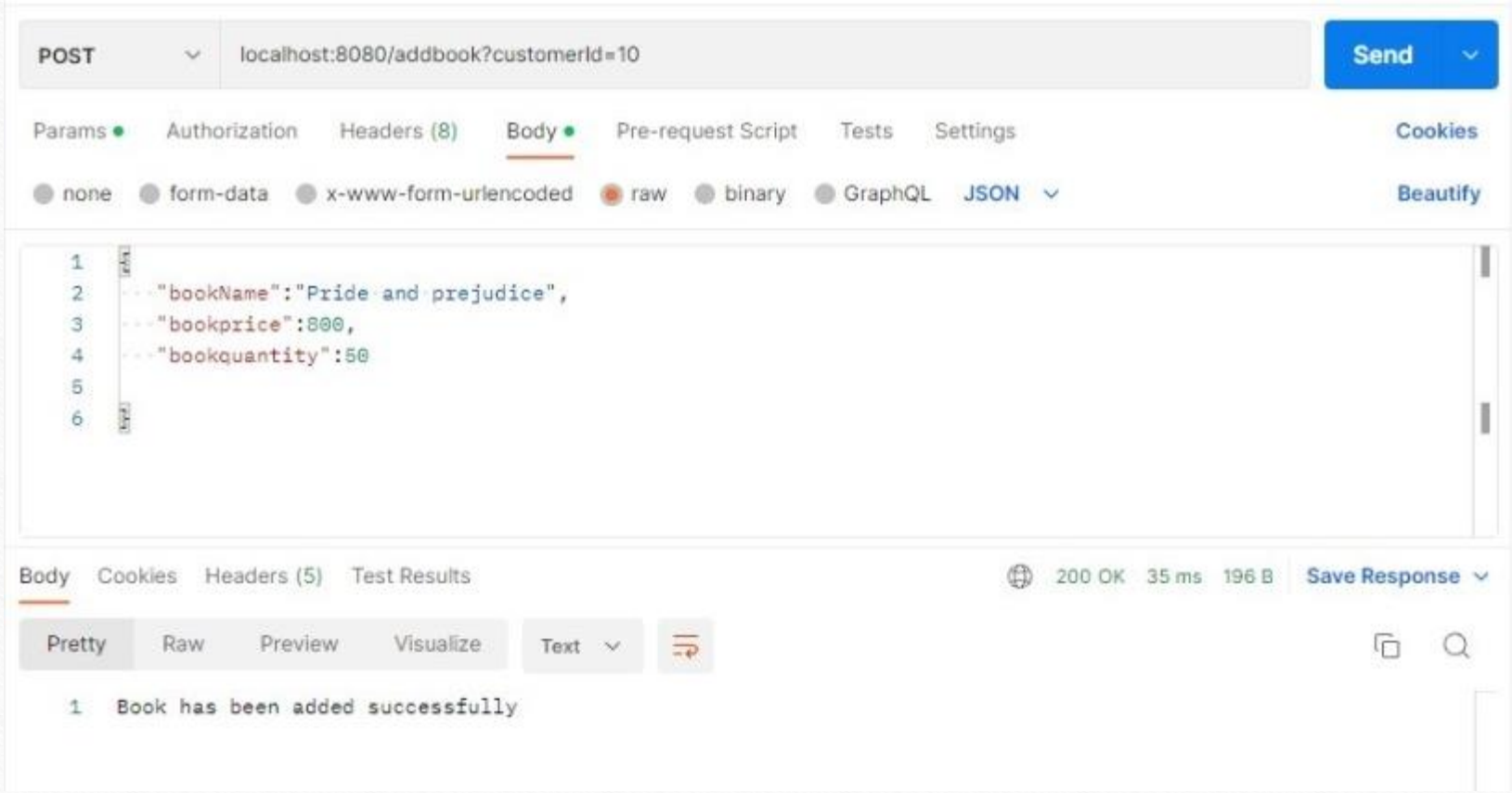
```
  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.3)

2022-09-22 17:19:44.091  INFO 9460 --- [           main] c.o.OnlineBookStoreProjectApplication    : Starting OnlineBookStoreProjectApplication using Java 17.0.1 on
DESKTOP-9CU2DPO with PID 9460 (C:\Users\ADMIN\eclipse-workspace1\OnlineBookStoreProject\target\classes started by ADMIN in C:\Users\ADMIN\eclipse-
workspace1\OnlineBookStoreProject)
2022-09-22 17:19:44.095  INFO 9460 --- [           main] c.o.OnlineBookStoreProjectApplication    : No active profile set, falling back to 1 default profile: "default"
2022-09-22 17:19:45.565  INFO 9460 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2022-09-22 17:19:45.723  INFO 9460 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 139 ms. Found 2 JPA
repository interfaces.
2022-09-22 17:19:46.909  INFO 9460 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8080 (http)
2022-09-22 17:19:46.924  INFO 9460 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2022-09-22 17:19:46.924  INFO 9460 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-09-22 17:19:47.134  INFO 9460 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2022-09-22 17:19:47.136  INFO 9460 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2931 ms
2022-09-22 17:19:47.484  INFO 9460 --- [           main] o.hibernate.jpa.internal.util.LogHelper  : HHH000204: Processing PersistenceUnitInfo [name: default]
2022-09-22 17:19:47.586  INFO 9460 --- [           main] org.hibernate.Version                    : HHH000412: Hibernate ORM core version 5.6.10.Final
2022-09-22 17:19:47.934  INFO 9460 --- [           main] o.hibernate.annotations.common.Version   : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2022-09-22 17:19:48.109  INFO 9460 --- [           main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Starting...
2022-09-22 17:19:48.643  INFO 9460 --- [           main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start completed.
2022-09-22 17:19:48.676  INFO 9460 --- [           main] org.hibernate.dialect.Dialect            : HHH000400: Using dialect: org.hibernate.dialect.MySQL8Dialect
2022-09-22 17:19:49.721  INFO 9460 --- [           main] org.hibernate.tuple.PojoInstantiator     : HHH000182: No default (no-argument) constructor for class:
com.onlinebookstore.entity.Book (class must be instantiated by Interceptor)
2022-09-22 17:19:50.060  INFO 9460 --- [           main] o.h.e.t.j.p.i.JtaPlatformInitiator       : HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2022-09-22 17:19:50.074  INFO 9460 --- [           main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2022-09-22 17:19:50.711  WARN 9460 --- [           main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database
queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2022-09-22 17:19:51.737  INFO 9460 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8080 (http) with context path ''
2022-09-22 17:19:51.768  INFO 9460 --- [           main] c.o.OnlineBookStoreProjectApplication    : Started OnlineBookStoreProjectApplication in 8.498 seconds (JVM
running for 9.512)
```

POSTMAN OUTPUT

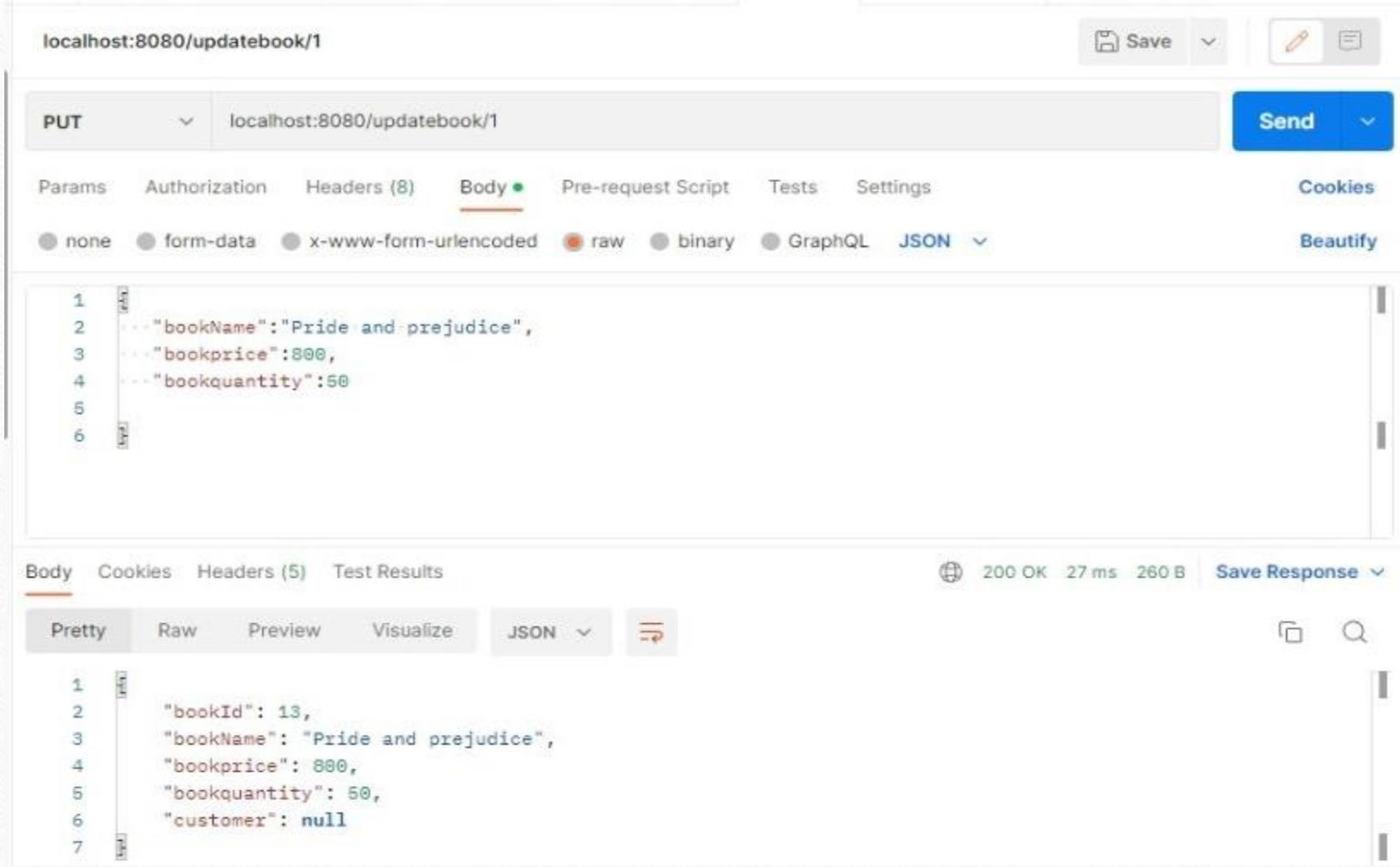
TO ADD CUSTOMER



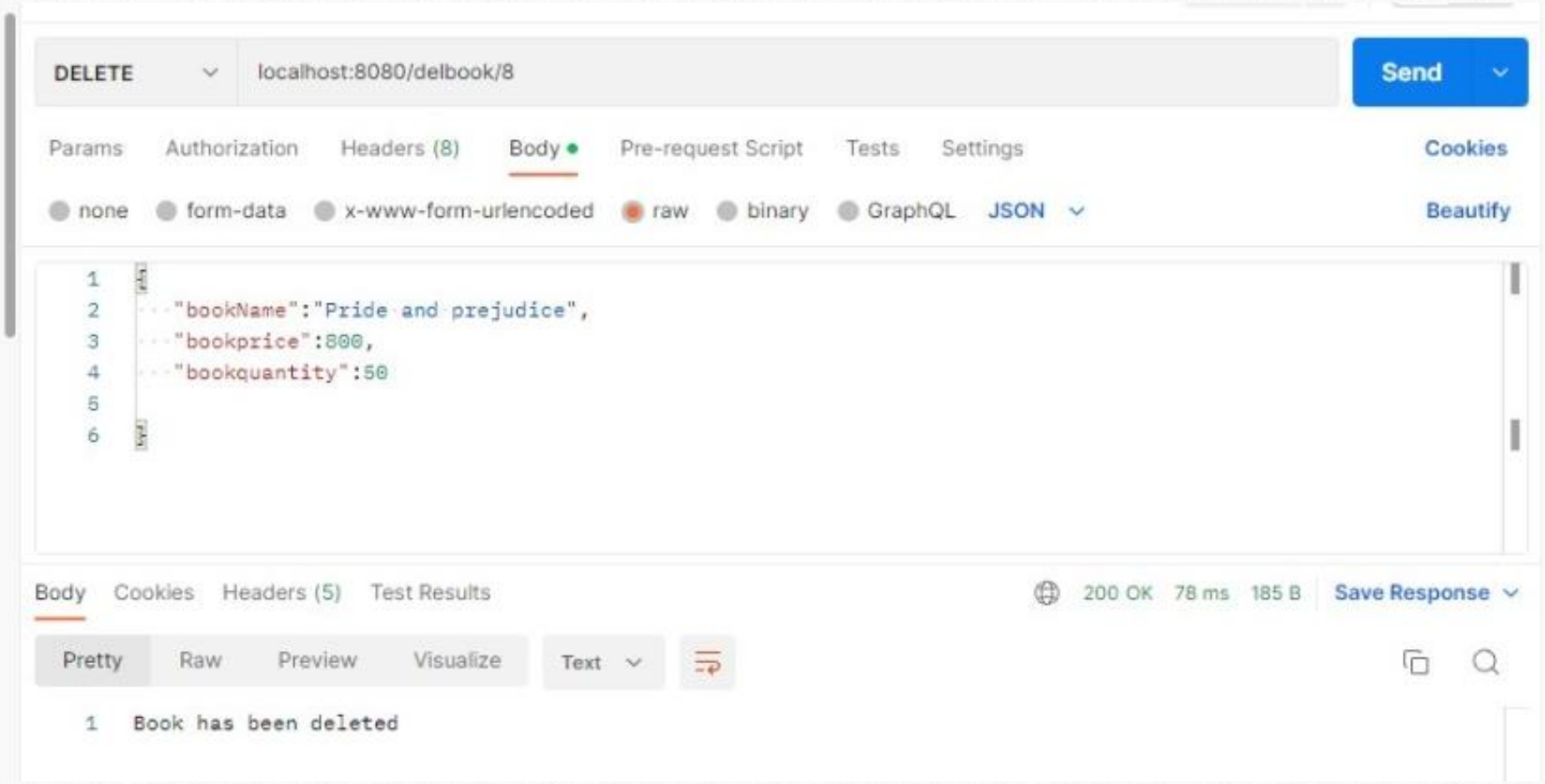
OUTPUT IN POSTMAN - ADD BOOK



OUTPUT IN POSTMAN - UPDATE BOOK



OUTPUT IN POSTMAN - DELETE BOOK



TABELS CREATED IN SQL

MySQL 8.0 Command Line Client - Unicode

```
mysql> show tables;
+---------------------+
| Tables_in_bookstore |
+---------------------+
| book                |
| customer            |
| customer_book       |
| hibernate_sequence  |
+---------------------+
4 rows in set (0.00 sec)

mysql> select * from customer;
+-------------+------------------+---------------+------------------------+
| customer_id | customer_address | customer_name | customer_phone_number  |
+-------------+------------------+---------------+------------------------+
|           1 | Hyderabad        | Sahithya      | 6678888547             |
|           3 | Hyderabad        | Hema          | 6678888547             |
|           5 | Mumbai           | Akshara       | 9887557755             |
|           7 | Mumbai           | Mahender      | 9887557744             |
|          10 | Mumbai           | Mahender      | 9887557755             |
+-------------+------------------+---------------+------------------------+
5 rows in set (0.00 sec)

mysql> select * from book;
+---------+---------------------+-----------+--------------+-------------+
| book_id | book_name           | bookprice | bookquantity | customer_id |
+---------+---------------------+-----------+--------------+-------------+
|       2 | Romeo and Juliet    |       350 |           50 |           1 |
|       4 | Alice In Wonderland |       450 |           50 |           3 |
|       6 | Arthashastra        |       400 |           50 |           5 |
|       8 | Pride and prejudice |       800 |           50 |           7 |
|       9 | Pride and prejudice |       800 |           50 |        NULL |
|      11 | Pride and prejudice |       800 |           50 |          10 |
+---------+---------------------+-----------+--------------+-------------+
6 rows in set (0.00 sec)

mysql> select * from book;
+---------+---------------------+-----------+--------------+-------------+
| book_id | book_name           | bookprice | bookquantity | customer_id |
+---------+---------------------+-----------+--------------+-------------+
|       4 | Alice In Wonderland |       450 |           50 |           3 |
|       6 | Arthashastra        |       400 |           50 |           5 |
```

FUTURE SCOPE

In future we can create a web page where customer can shop online

- **Login**
- **Register**
- **Payment**