

Library Mgt

How to run the application

There are 2 ways to run this application.

1 way

In the terminal,

1. mvn clean install
2. docker-compose build
3. docker-compose up -d

2 way

1. Open the project in intellij
2. Do mvn clean install the project
3. In the docker-compose.yml , you will find the postgres database,
4. Run that service
5. Then on intellij, run the application, and follow the below things

then run below things in postman,

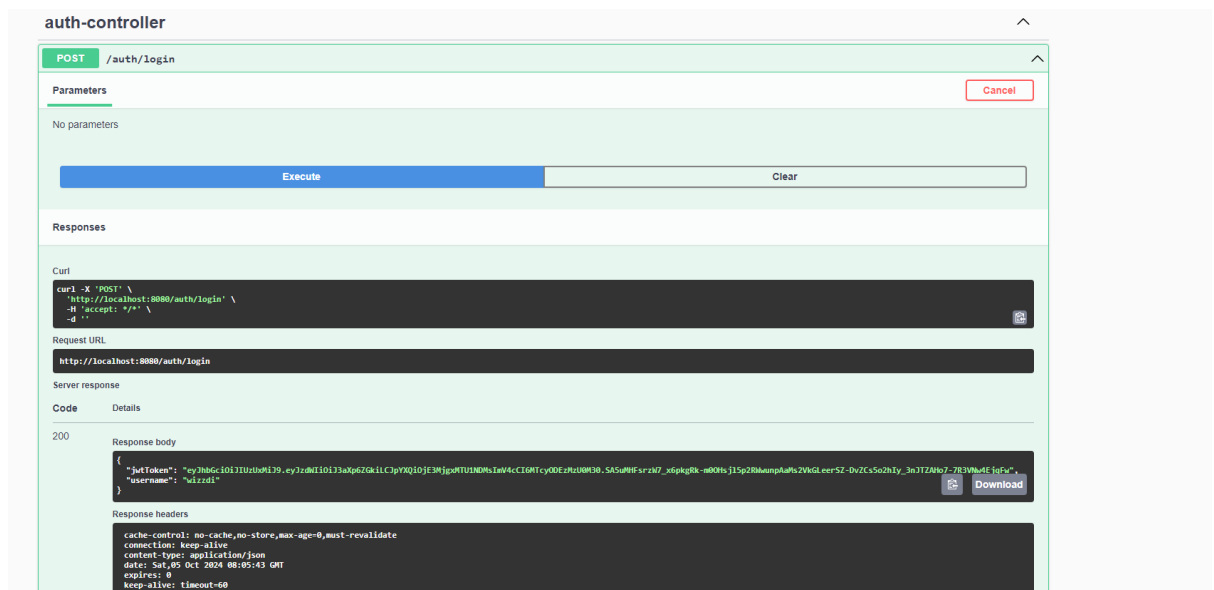
Here is the API list where all Post api and one get api to fetch the data.

Login api:

POST : - <http://localhost:8080/auth/login>

Default username : wizzdi

Default password: wizzdi



Swagger All Crud Api's screenshot

ACCESS DENIED ERROR IF NOT PASSED TOKEN

GET /genres/{id}

Parameters

Cancel

Name	Description
id required	
string (path)	<input type="text" value="sdf"/>

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/genres/sdf' \
  -H 'accept: */*'
```

Request URL

```
http://localhost:8080/genres/sdf
```

Server response

Code

Details

401

undocumented

Error: response status is 401

Response headers

```
cache-control: no-cache,no-store,max-age=0,must-revalidate
connection: keep-alive
content-length: 74
date: Sat,05 Oct 2024 08:07:53 GMT
expires: 0
```

ACCESS PASSED AFTER PASSING TOKEN

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/genres' \
  -H 'accept: */*' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVmQ6IiwiaWF0IjE3Mjg0MzE0OTIyLCJpc29udGVzIjoiIn0=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInR5cCI6IkpXVmQ6IiwiaWF0IjE3Mjg0MzE0OTIyLCJpc29udGVzIjoiIn0='
```

Request URL

```
http://localhost:8080/genres
```

Server response

Code

Details

200

Response body

```
{
  "id": "9050089f-465d-4e41-b329-92c5bfd16101",
  "name": "test1",
  "description": "Science Fiction1",
  "dateCreated": "2024-10-04T13:58:13.43133Z",
  "dateUpdated": "2024-10-04T13:58:13.392569Z",
  "softDelete": false
},
{
  "id": "7d0032ef-4851-4b5b-a428-87f28be3d7c7",
  "name": "test1",
  "description": "Science Fiction1",
  "dateCreated": "2024-10-05T08:32:56.562955Z",
  "dateUpdated": "2024-10-05T08:32:56.550596Z",
  "softDelete": false
}

```

Response headers

```
cache-control: no-cache,no-store,max-age=0,must-revalidate
content-type: application/json
date: Sat,05 Oct 2024 08:40:32 GMT
expires: 0
keep-alive: timeout=60
```

NOTE: --

REST YOU CAN ACCESS ALL API's on swagger. I am not putting all apis here.

*******Library Api which contain all things*******

POST:

<http://localhost:8080/api/library/create>

Request:

```
{
  "bookName": "string",
  "bookDescription": "string",
  "genreIds": [
    "string"
  ],
  "authorIds": [
    "string"
  ],
  "serialNumber": "string",
  "blocked": true,
  "lenderId": "string",
  "lentDate": "2024-10-05T08:37:36.675Z",
  "dueBackDate": "2024-10-05T08:37:36.675Z",
  "returnedDate": "2024-10-05T08:37:36.675Z"
}
```

*****Old Apis*******

1. Author

POST - <http://localhost:8080/authors>

```
{  
  "email": "author1@example.com",  
  "name": "John1",  
  "address": "123 Author St.",  
  "phoneNumber": "123-456-7890",  
  "gender": "MALE",  
  "birthDate": "1980-01-01T00:00:00Z",  
  "socialSecurityNumber": "123-45-6789"  
}
```

Response:

```
{  
  "id": "46e69a0e-1e40-4f60-8773-8a5faaa1bfe2",  
  "name": "John1",  
  "description": null,  
  "dateCreated": "2024-09-30T19:58:23.112867+05:30",  
  "dateUpdated": "2024-09-30T19:58:23.1088666+05:30",  
  "softDelete": false,  
  "email": "author1@example.com",  
  "address": "123 Author St.",  
  "phoneNumber": "123-456-7890",  
  "gender": "MALE",  
  "birthDate": "1980-01-01T00:00:00Z",  
  "socialSecurityNumber": "123-45-6789",  
  "books": null  
}
```

2. Books

POST- <http://localhost:8080/api/books>

Request:

```
{  
  "name": "Sample Book",  
  "description": "A description of the sample book.",  
  "genreIds": ["d1a41fe2-3c59-4c9e-809d-1e33dcf113dc", "bda82300-403c-4cc3-b451-10142743f03e"],  
  "authorIds": ["7d08f1dc-c4ad-4003-b326-f93b6e53d083", "46e69a0e-1e40-4f60-8773-8a5faaa1bfe2"]  
}
```

Response: -

```
{  
  "id": "3dc5df8d-b01b-4614-9b7b-5c2a510c6ac6",  
  "name": "Sample Book",  
  "description": "A description of the sample book.",  
  "dateCreated": "2024-09-30T20:02:20.5128873+05:30",  
  "dateUpdated": "2024-09-30T20:02:20.5248862+05:30",  
  "softDelete": false,  
  "genres": [  
    {  
      "id": null,  
      "name": null,  
      "description": null,  
      "dateCreated": "2024-09-30T20:02:20.5188863+05:30",
```

```
"dateUpdated": "2024-09-30T20:02:20.5188863+05:30",
"softDelete": false,
"book": null,
"genre": null
},
{
  "id": null,
  "name": null,
  "description": null,
  "dateCreated": "2024-09-30T20:02:20.5188863+05:30",
  "dateUpdated": "2024-09-30T20:02:20.5188863+05:30",
  "softDelete": false,
  "book": null,
  "genre": null
}
],
"authors": [
  {
    "id": null,
    "name": null,
    "description": null,
    "dateCreated": "2024-09-30T20:02:20.5188863+05:30",
    "dateUpdated": "2024-09-30T20:02:20.5188863+05:30",
    "softDelete": false,
    "author": null,
    "book": null,
    "mainAuthor": false
  },

```



```
{
  "id": null,
  "name": null,
  "description": null,
  "dateCreated": "2024-09-30T20:02:20.5188863+05:30",
  "dateUpdated": "2024-09-30T20:02:20.5188863+05:30",
  "softDelete": false,
  "author": null,
  "book": null,
  "mainAuthor": false
}
]
```

3. Genre

POST - <http://localhost:8080/genres>

Request:

```
4. {
5.     "description": "Science Fiction1",
6.     "name": "test1"
7. }
```

Response:

```
{
  "id": "bda82300-403c-4cc3-b451-10142743f03e",
  "name": "test1",
  "description": "Science Fiction1",
  "dateCreated": "2024-09-30T19:57:53.4070251+05:30",
```

```
"dateUpdated": "2024-09-30T19:57:53.4060254+05:30",  
"softDelete": false  
}
```

4. Filter Api :-

POST - <http://localhost:8080/authors/filter>

Request:

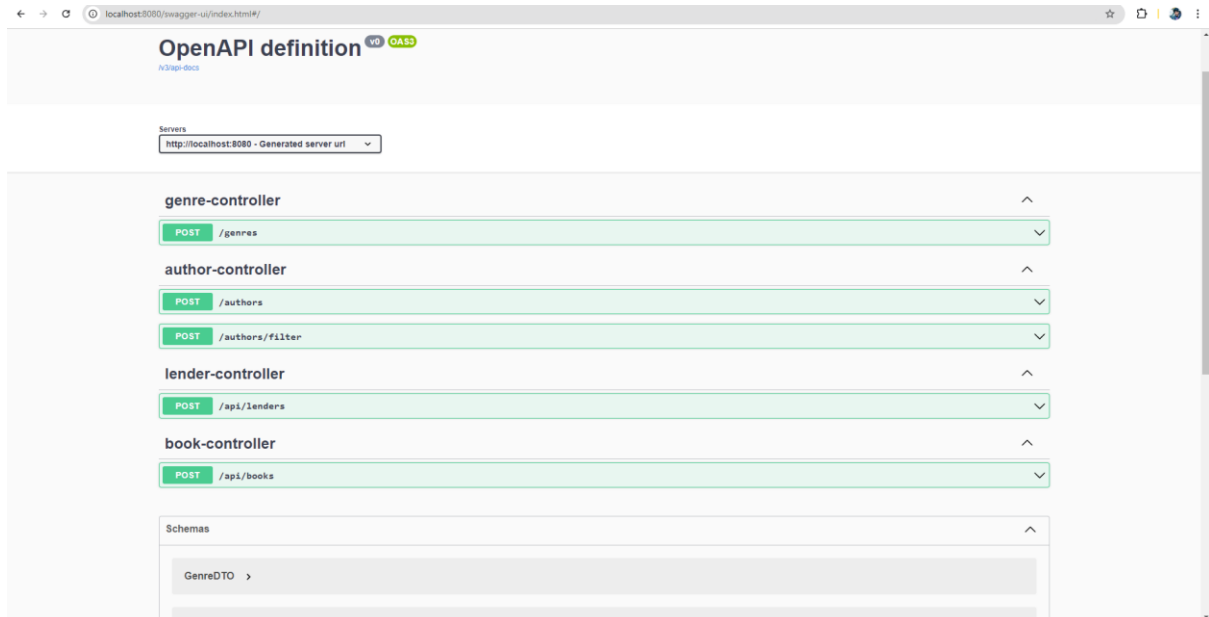
```
{  
  "namePattern": "John",          // Pattern to filter names  
  "referencedIds": ["46e69a0e-1e40-4f60-8773-8a5faaa1bfe2"],  
  "startDate": "2024-09-30T00:00:00Z", // Start date for filtering  
  "endDate": "2024-10-01T23:59:59Z"  // End date for filtering  
}
```

Response: -

```
[  
  {  
    "id": "46e69a0e-1e40-4f60-8773-8a5faaa1bfe2",  
    "name": "John1",  
    "description": null,  
    "dateCreated": "2024-09-30T14:28:23.112867Z",  
    "dateUpdated": "2024-09-30T14:28:23.108867Z",  
    "softDelete": false,  
  }  
]
```

```
"email": "author1@example.com",  
"address": "123 Author St.",  
"phoneNumber": "123-456-7890",  
"gender": "MALE",  
"birthDate": "1980-01-01T00:00:00Z",  
"socialSecurityNumber": "123-45-6789",  
"books": []  
}  
]
```

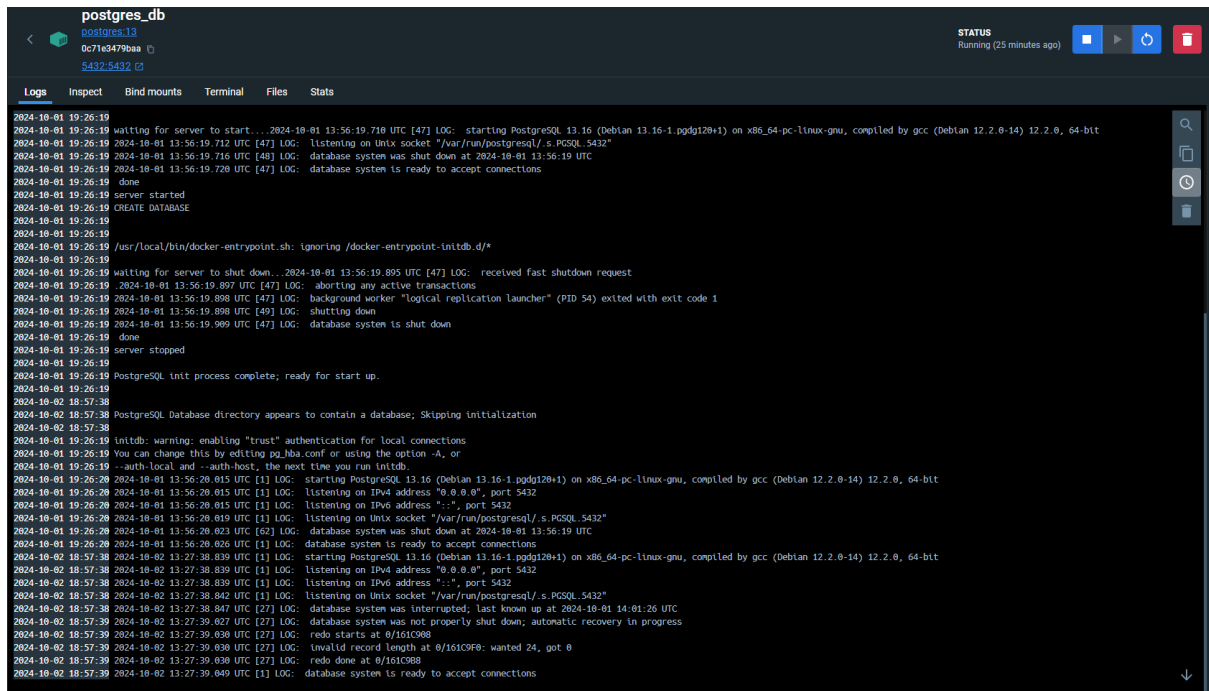
Swagger Url - <http://localhost:8080/swagger-ui/index.html#/>



Docker library app running screenshot

postgres_db postgres:13 Running 5432-5432	2024-10-02 18:57:38 postgres_db	2024-10-02 13:27:38.839 UTC [1] LOG:	listening on IPv6 address ":::", port 5432
	2024-10-02 18:57:38 postgres_db	2024-10-02 13:27:38.842 UTC [1] LOG:	listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
	2024-10-02 18:57:38 postgres_db	2024-10-02 13:27:38.847 UTC [27] LOG:	database system was interrupted; last known up at 2024-10-01 14:01:26 UTC
	2024-10-02 18:57:39 postgres_db	2024-10-02 13:27:39.627 UTC [27] LOG:	database system was not properly shut down; automatic recovery in progress
library_app library-library_app Running 8080-8080	2024-10-02 18:57:39 postgres_db	2024-10-02 13:27:39.638 UTC [27] LOG:	redo starts at 8/161C988
	2024-10-02 18:57:39 postgres_db	2024-10-02 13:27:39.638 UTC [27] LOG:	invalid record length at 8/161C9F0: wanted 24, got 0
	2024-10-02 18:57:39 postgres_db	2024-10-02 13:27:39.838 UTC [27] LOG:	redo done at 8/161C988
	2024-10-02 18:57:39 postgres_db	2024-10-02 13:27:39.849 UTC [1] LOG:	database system is ready to accept connections
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.273Z INFO 1 --- [	main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in D
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.320Z INFO 1 --- [	main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 41
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.662Z INFO 1 --- [	main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8080 (http)
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.672Z INFO 1 --- [	main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.672Z INFO 1 --- [	main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.30
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.696Z INFO 1 --- [	main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationCont
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.697Z INFO 1 --- [	main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization comp
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.822Z INFO 1 --- [	main] o.hibernate.jpa.internal.util.LogHelper : ###0000204: Processing PersistenceUnitInfo [name
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.858Z INFO 1 --- [	main] org.hibernate.Version : ###0000412: Hibernate ORM core version 6.2.10.Fi
	2024-10-02 19:28:09 library_app	2024-10-02T13:50:09.866Z INFO 1 --- [	main] org.hibernate.cfg.Environment : ###0000406: Using bytecode reflection optimizer
	2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.822Z INFO 1 --- [	main] o.s.o.j.p.SpringPersistenceUnitInfo : No LoadTimeWeaver setup; ignoring JPA class tra
	2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.843Z INFO 1 --- [	main] con.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.109Z INFO 1 --- [	main] con.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection org.postgresql.	
2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.111Z INFO 1 --- [	main] con.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.	
2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.135Z WARN 1 --- [	main] org.hibernate.orm.deprecation : ###000000205: PostgreSQLDialect does not need to	
2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.763Z INFO 1 --- [	main] o.h.e.t.j.p.l.JpaPlatformInitiator : ###0000489: No JTA platform available (set 'hibe	
2024-10-02 19:28:10 library_app	2024-10-02T13:50:10.831Z INFO 1 --- [	main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persis	
2024-10-02 19:28:11 library_app	2024-10-02T13:50:11.117Z WARN 1 --- [	main] JpaBaseConfigurationJpaWebConfiguration : spring.jpa.open-in-view is enabled by default.	
2024-10-02 19:28:11 library_app	2024-10-02T13:50:11.893Z INFO 1 --- [	main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with context	
2024-10-02 19:28:11 library_app	2024-10-02T13:50:11.903Z INFO 1 --- [	main] con.wizzdi.library.LibraryApplication : Started LibraryApplication in 3.44 seconds (pro	
2024-10-02 19:28:31 library_app	2024-10-02T13:50:31.230Z INFO 1 --- [nto-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatch		
2024-10-02 19:28:31 library_app	2024-10-02T13:50:31.230Z INFO 1 --- [nto-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'		
2024-10-02 19:28:31 library_app	2024-10-02T13:50:31.231Z INFO 1 --- [nto-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 0 ms		

Database running screenshot



Swagger running screenshot

