

Follow these steps:

Clone the Repository:

Use the git clone command in your terminal or Git Bash to copy the repository to your local machine.

1. git clone https://github.com/FahimShahryer/Book_Service_API.git

This command will create a directory named Book_Service_API in your current location and download the repository files into it.

2. Run on terminal

pip install -r requirements.txt

Creating a PostgreSQL Database using pgAdmin 4:

Step 1: Open pgAdmin 4

Log in using your credentials.

Step 2: Connect to a PostgreSQL Server

In the left sidebar, expand the "Servers" section.

Right-click on "Servers" and choose "Create" > "Server..."

Enter the required server information:

Name: Give your server a descriptive name.

Hostname/address: localhost (Enter the address of your PostgreSQL server.)

Port: Default is 5432.

Maintenance database: (PostgreSQL's default maintenance database is postgres.)

Username: Your PostgreSQL username.

Password: Your PostgreSQL password.

Click "Save" to connect to the server.

Step 3: Create a New Database

Once connected to the server, expand the server in the left sidebar.

Right-click on "Databases" and select "Create" > "Database..."
Name: Provide a name for your database.
Click "Save" to create the new database.

#Keep the server running

Edit the code for your database connection

1. Edit the database url in app/database/session.py script

```
DATABASE_URL =  
"postgresql://<user>:<password>@localhost/<Database_Name>"
```

2. Edit the **sqlalchemy** url in alembic.ini file

```
sqlalchemy.url = postgresql://<user>:<password>@localhost/<Database_Name>
```

Run the project

1. Run on terminal

```
alembic init migrations
```

2. It will create a 'migrations' folder in the directory . There should be a 'env.py' file in the migrations folder. Look for '*target_metadata = None*' line in the env.py script, and replace this line with -

```
'target_metadata = models.Base.metadata'
```

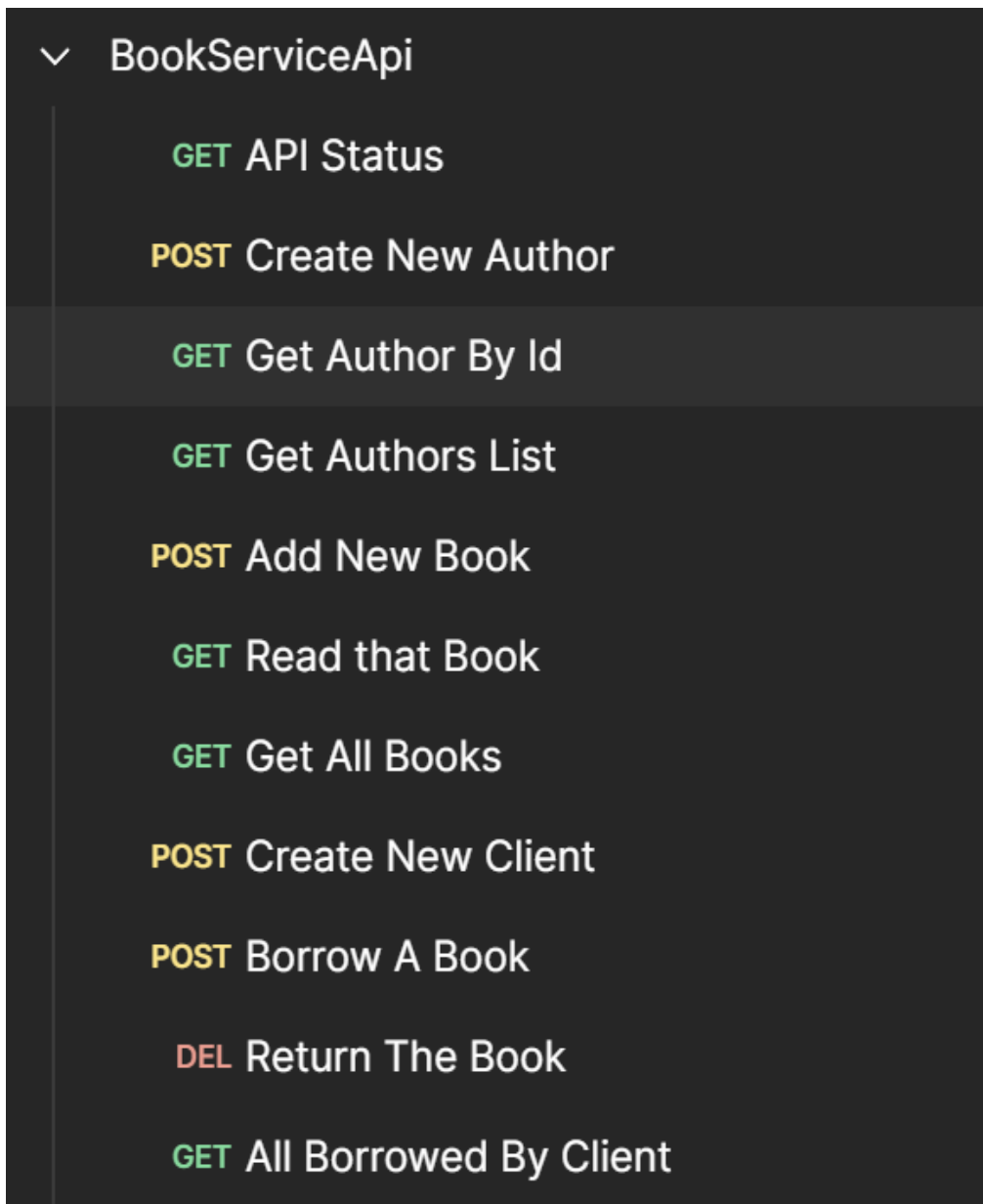
3. Run on terminal

```
alembic revision --autogenerate -m "initial_migration"  
alembic upgrade head
```

4. Run app/main.py

Test the API using POSTMAN

1. Open POSTMAN
2. Import the BookServiceApi_postman_collection.json file in postman
3. There will be several command in BookServiceApi like this:



4. Send All the commands **sequentially** for testing the operations.