**# How to run Apidemo**

1. Unzip the project and Import the project in IntelliJ/Eclipse IDE using pom.xml file.

2. Install docker in your machine and Look for a docker-compose.yml file go to the file location run the `docker-compose up` command to install & create MySQL database.  
or

Install and run MySQL in Docker.

`docker run --name mysql -e MYSQL\_ROOT\_PASSWORD=my-secret-pw -p 3306:3306 -d mysql`

And Create a database with the name 'demo-api'

3. Run the ApidemoApplication.Java Main class to start the SpringBoot Application.

4. Apidemo Application will create the `transactions` table in the database.

5. Insert the records into DB based on the table structure.

6. Open postman and run GET method to retrieve the latest balance by giving an `accountNumber`

URL: <http://localhost:8080/api/transactions/11235/balance>

Result:

Graphical user interface, text, application, email

Description automatically generated

7. Run GET method to retrieve transaction based on

`accountNumber` a range between `date X` and `date Y`

URL: <localhost:8080/api/transactions/11235?start=2020-01-01&end=2021-02-23>

Graphical user interface, text, application, email

Description automatically generated

8. Run GET method to retrieve transactions based on

`accountNumber`, a range between `date X` and `date Y` and filter for `type`

Type: deposit

URL: <localhost:8080/api/transactions/11235?start=2020-01-01&end=2021-02-23&type=deposit>

Graphical user interface, text, application, email

Description automatically generated

Type: withdraw

URL: <localhost:8080/api/transactions/11235?start=2020-01-01&end=2021-02-23&type=withdraw>

Graphical user interface, text, application, email

Description automatically generated