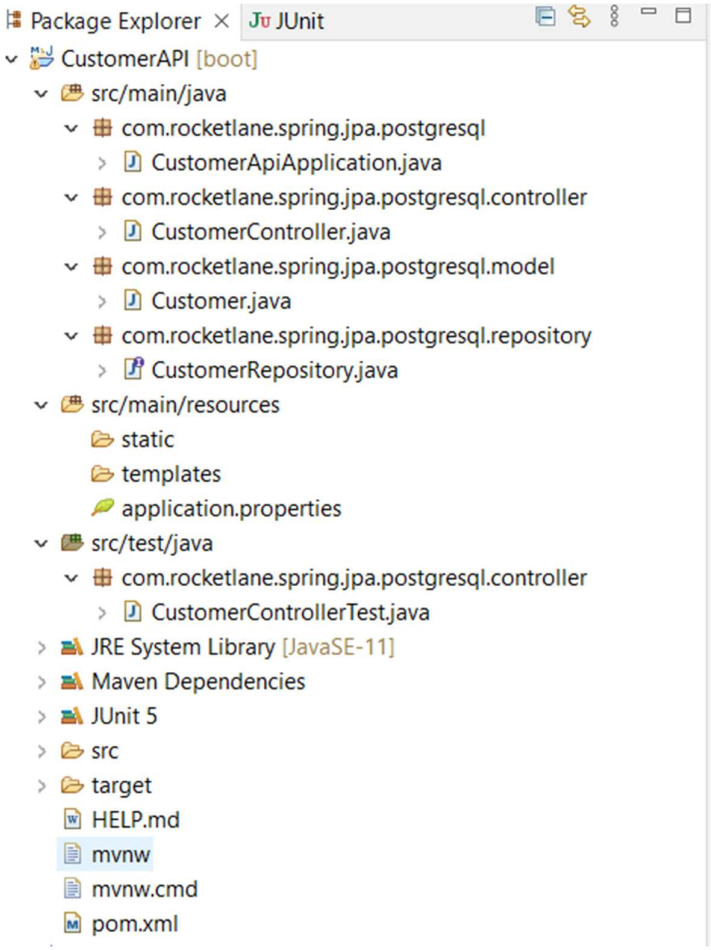
ROCKETLANE CODING ASSIGNMENT

SERVICE TO MANAGE CUSTOMER INFORMATION

Framework used: Spring Boot

Database: Postgresql

Project Layout:



PACKAGES AND LAYERS IN THIS PROJECT

1. DOMAIN LAYER – Creating Customer Model

Package: COM.ROCKETLANE.SPRING.JPA.POSTGRESQL.MODEL

The data model (Customer) is defined with the fields: ID, FIRSTNAME, LASTNAME, EMAILID, MOBILENO, CITY and ADDRESS.

2. PERSISTENCE LAYER – Creating Customer Repository

Package: COM.ROCKETLANE.SPRING.JPA.POSTGRESQL.REPOSITORY

In the repository package, CustomerRepository interface extends JpaRepository .

It provides method for easy retrieval from the database without the need for manual implementation.

3. BUSINESS LAYER- Create Customer Controller

Package: COM.ROCKETLANE.SPRING.JPA.POSTGRESQL.CONTROLLER

Customer controller is the controller which exposes REST endpoints for the CRUD Operation.

Create- HTTP POST METHOD

One POST method to **create a new customer record** in the database.

Read- HTTP GET METHOD

Two GET methods to **retrieve customer records** from the database. One gets all the customer details and the other gets a single record given a customer ID.

Update- HTTP PUT METHOD

One PUT method to **update a customer record** in the database given the customer id of the record to be updated is given.

Delete- HTTP DELETE METHOD

One DELETE method to **delete a customer record** in the database given the customer id of the record to be deleted.

IMPLEMENTED API'S:

1. HTTP POST http://localhost:8080/customers

2. HTTP GET http://localhost:8080/customers/2

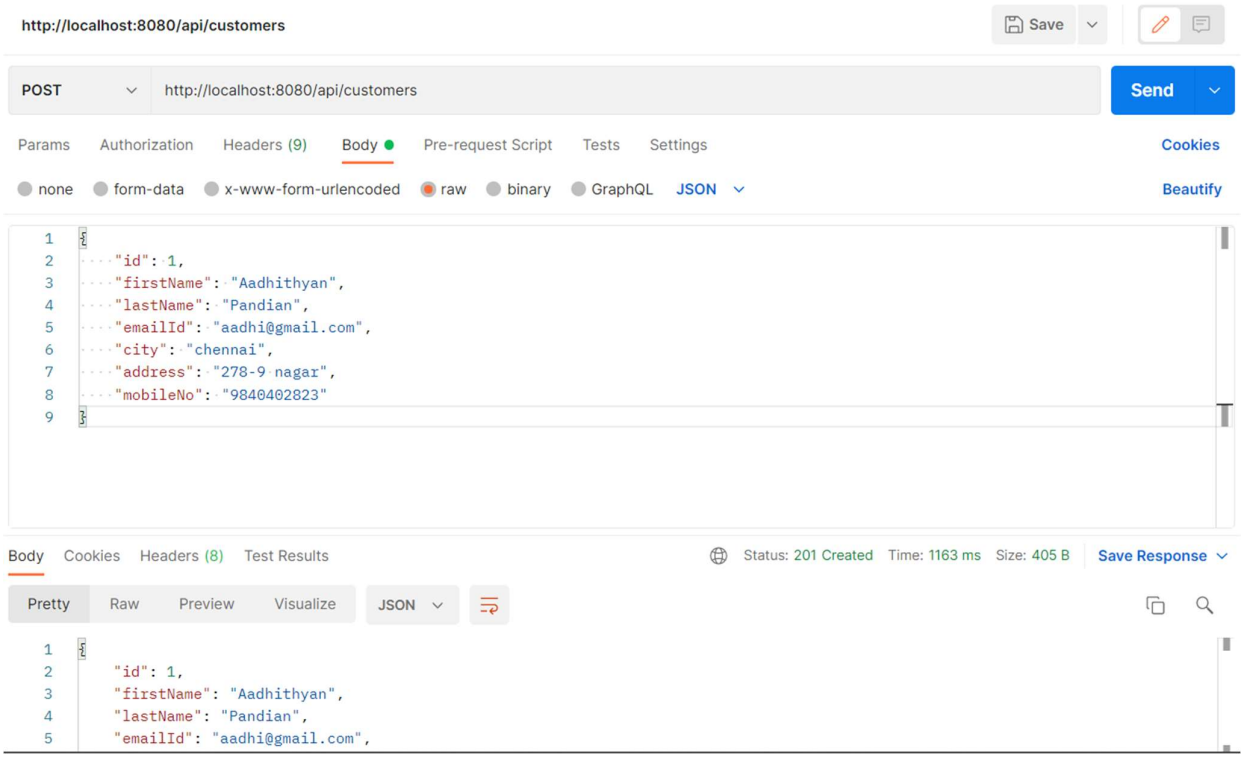
3. HTTP GET http://localhost:8080/customers

3. HTTP PUT http://localhost:8080/customers/2

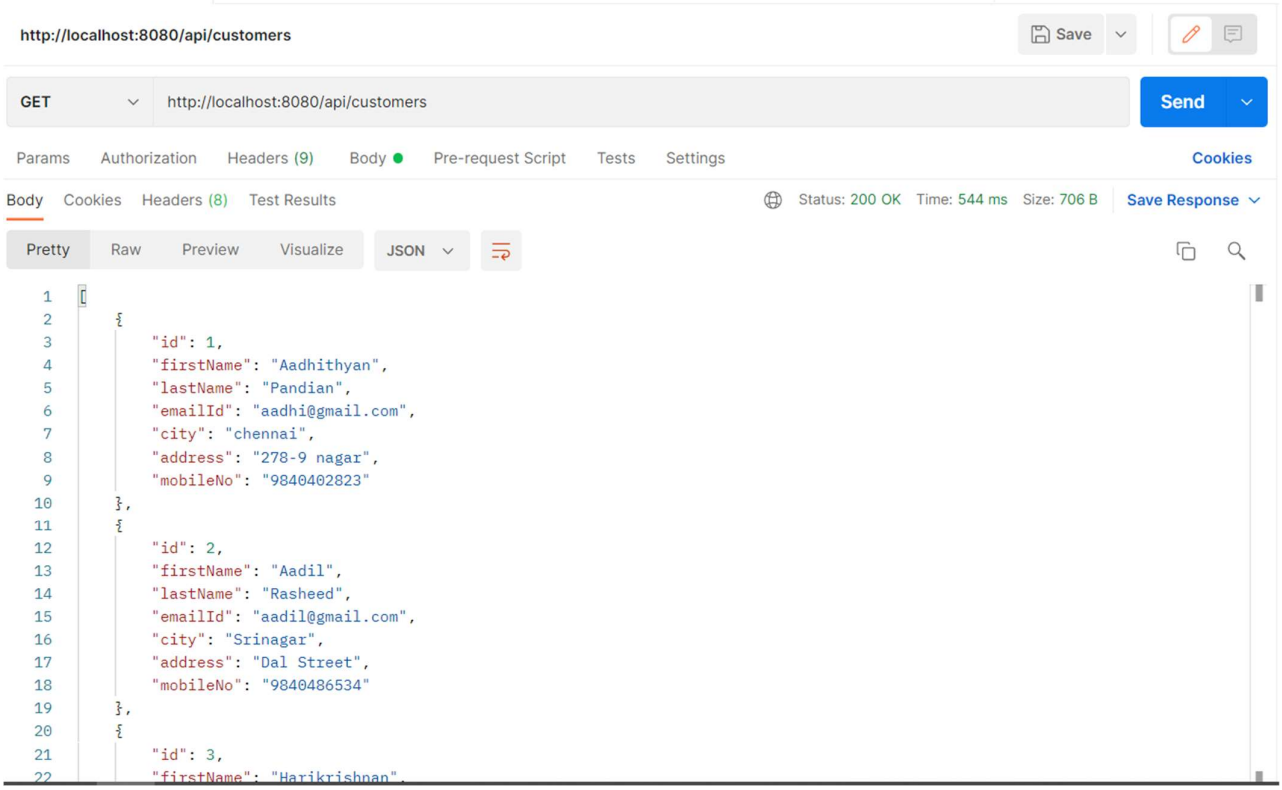
4. HTTP DELETE http://localhost:8080/customers/2

TESTING THE APIs IN POSTMAN:

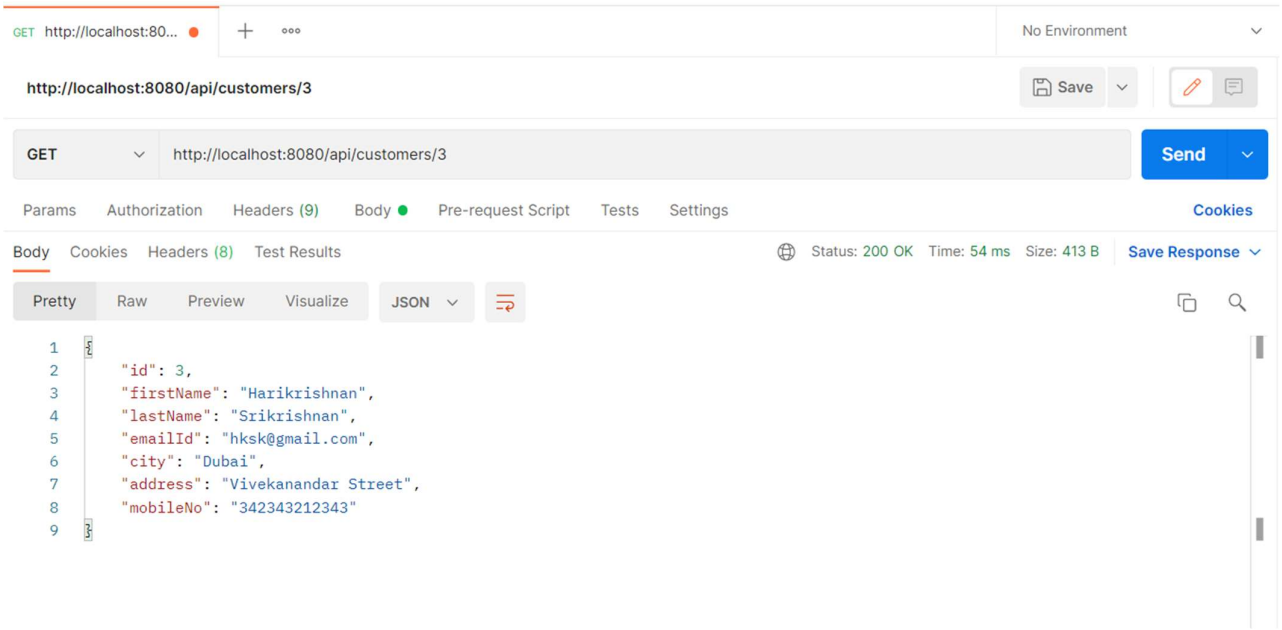
Creating a new record using POST method:



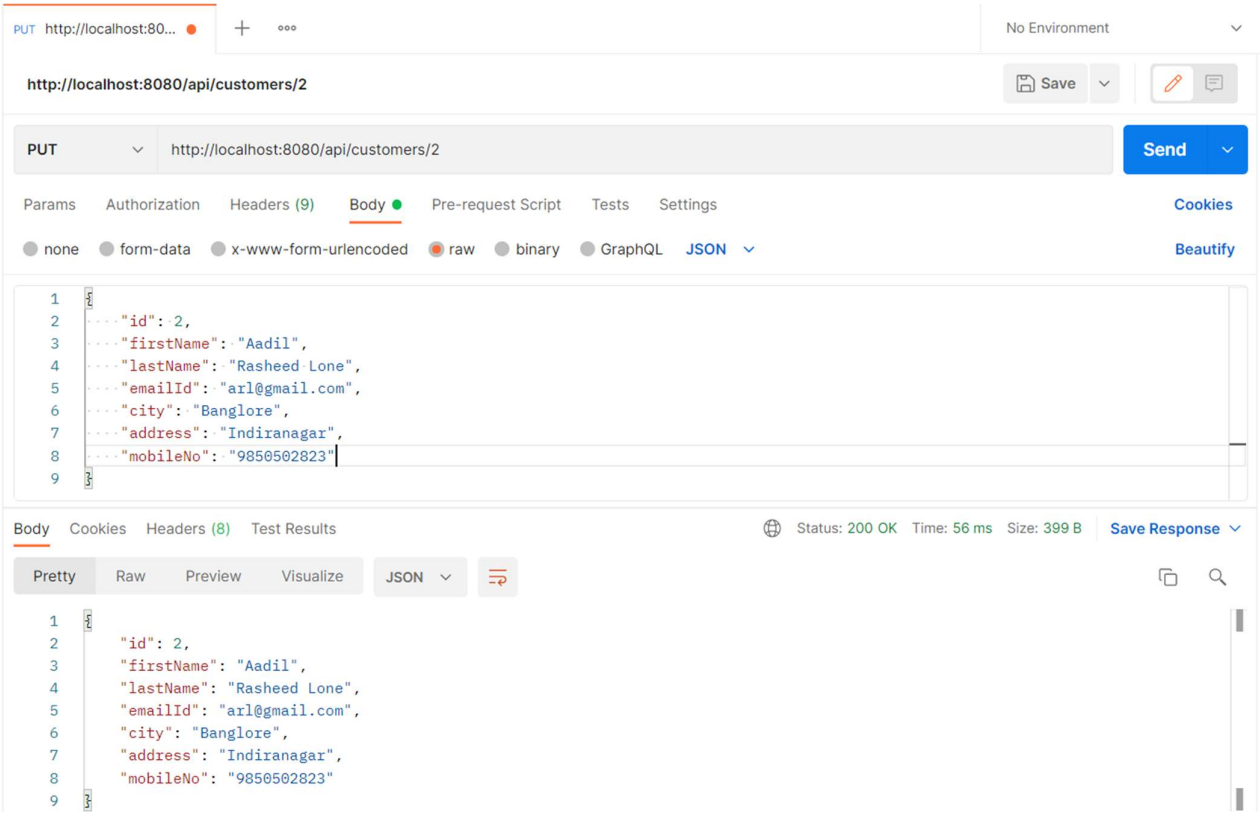
Retrieving all customers detail with GET method:



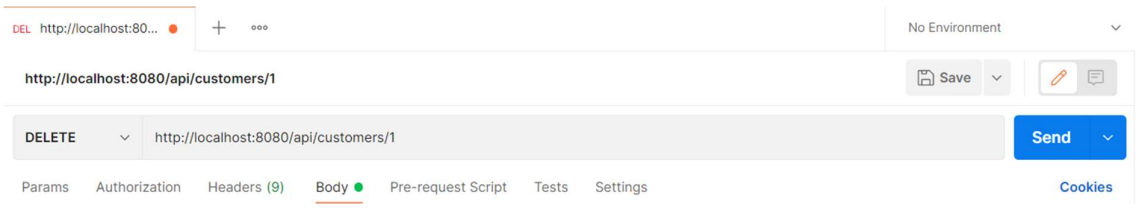
Retrieving customer details based on ID using GET method:



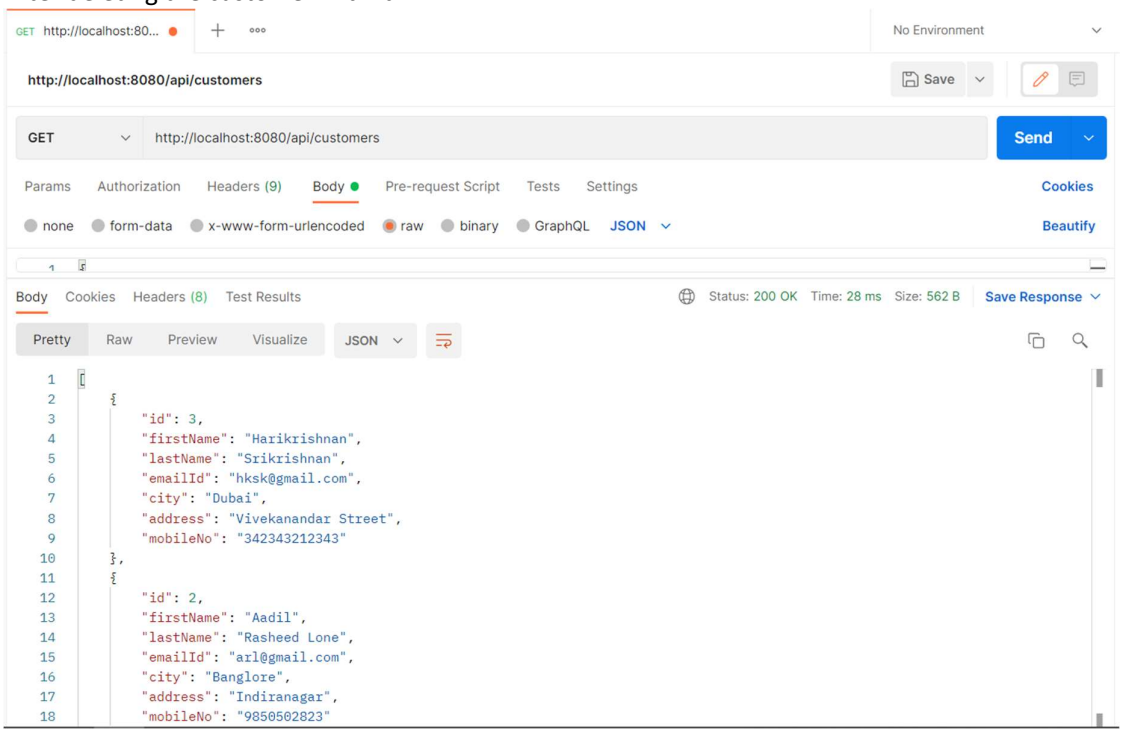
Updating customer detail with given id using PUT method:



Deleting a customer detail with the given ID using DELETE method:



After deleting the customer with id 1:



SNAPSHOT OF THE PGADMIN IN POSTGRESQL: