Steps followed to implement the wishlist microservice in java

Installations:

- 1. Download and Install JDK 1.11
- 2. Download and install VSCode 1.47.2
- 3. MySQL workbench download and install 8.0.21

Prerequisites for MySQL:

- 1. Microsoft .NET Framework 4.5 download and install
- 2. Visual C++ Redistributable for Visual Studio 2019 download and install

Visual Studio code Editor Setup:

Open Visual studio code. Install the below extensions in visual studio code. Extension icon is seen in the leftmost column of the visual studio code editor.

- 1. Java extension pack
 - Debugger for Java
 - Language support for Java by Red Hat
 - Java Test Runner
 - Maven for Java
 - Java Dependency viewer
 - Visual studio intelli code
- 2. Spring Boot Extension Pack
 - Spring Boot Dashboard
 - Spring Boot Tools
 - Spring Initializer Java Support
 - Cloud foundry manifest
 - Concourse CI pipeline editor
- 3. MySQL client for VScode
- 4. MySQL management tool

Adding dependencies to the Module

These are the dependencies required for the microservice Wishlist. It can be added while created a project(or it can be copied from the pom.xml)

Dependencies:

- Spring Data JPA
- Spring web
- Dev tools
- Lombok
- Actuator

- Mysql Connector Java
- Starter Test
- Javaee api
- Jersey server 2.13
- Jersey container servlet
- Javax.ws.rs-api
- HttpClient 4.5.12

Properties:

Java 1.8

Plugins:

Maven Plugin

Connecting mysql from Visual studio code to mysql server

Click on the image of Database from the left most column of the visual studio editor.

Type the DB name: tegapi and server: 104.154.82.220

And all other information like username and password are specified in the application.properties file. Once everything is given, it will get connected to the mysgl server.

WishList Microservice

8 Files are created for wishlist microservice.

Repository:

1. WishListRepository.java

Model:

- 2. WishListModel
- 3. WishListId

Controller:

4. WishListController

Service:

5. WishListService

Application:

6. WishListApplication

WishListRepository.java:

This class provides the mechanism for storage, retrieval, search, update and delete operation on wishlist table in mysql.It is annotated with @Repository

WishListModel.java:

This class is called an entity, it is nothing but a simple POJO(Plain old java object), representing data that can be persisted to wishlist table. It is annotated with @Entity

WishListID.java:

This class holds the fields that together form a composite key for the wishlist table. So it is annotated with @**Embeddable**

WishListController.java

This class maps the url and its parameters to the request handler method. Three requests are mapped. Delete, Get and Post. It is annotated with @RestController

WishListService.java

This class gives the business logic in different layers for all the three mapped requests. It is annotated with **@Service.**This class also calls an API to fetch the product details.