**1. Online Zee-tech Mobile Connection provider wanted to use a webservice for obtaining the new connection , modifying the connection type, revoke the connection and viewing the connection details. Help Zee-tech to automate the above process by developing Rest Service using Maven to add and retrieve the connection details.**

**As a first step, the ShoppingController which is RestController should be created with the following services:**

**Get Request -->/SPS/findConnectionById/1 : This service should invoke the findConnectionById() method and return the connection object for the given connection number.**

**Get Request -->/SPS/findAllConnection : This service should invoke the viewAllConnections() and return all the connections.**

**Post Request -->/SPS/addConnection: This service should add the connection by using the addConnection method in service.**

**Note:**

* **The ProviderService class is provided with two sample connections and added to the list as part of the skeleton. Do not alter the same.**
* **Partial maven solution for the same is provided . Do not alter the className/packageName/MethodName.**
* **You can add new methods/attributes/classes if required.**
* **In the ProviderService class , include the required business logic.**
* **The data returned from the Controller should be a JSON.**
* **Inject the ProviderService inside the ShopController and invoke the appropriate methods.**

**Project Struture:**

**zee-tech-connection/**

**├── src/**

**│ └── main/**

**│ └── java/**

**│ └── com/**

**│ └── zeetech/**

**│ ├── controller/**

**│ │ └── ShoppingController.java**

**│ ├── model/**

**│ │ └── Connection.java**

**│ ├── service/**

**│ │ └── ProviderService.java**

**│ └── ZeeTechApplication.java**

**├── pom.xml**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Provided Connection class:**

**public class Connection {**

**private int connectionId;**

**private String customerName;**

**private String connectionType;**

**private String status;**

**public Connection() {**

**}**

**public Connection(int connectionId, String customerName, String connectionType, String status) {**

**this.connectionId = connectionId;**

**this.customerName = customerName;**

**this.connectionType = connectionType;**

**this.status = status;**

**}**

**public int getConnectionId() {**

**return connectionId;**

**}**

**public void setConnectionId(int connectionId) {**

**this.connectionId = connectionId;**

**}**

**public String getCustomerName() {**

**return customerName;**

**}**

**public void setCustomerName(String customerName) {**

**this.customerName = customerName;**

**}**

**public String getConnectionType() {**

**return connectionType;**

**}**

**public void setConnectionType(String connectionType) {**

**this.connectionType = connectionType;**

**}**

**public String getStatus() {**

**return status;**

**}**

**public void setStatus(String status) {**

**this.status = status;**

**}**

**}**

**Provided Service class**

**package com.zeetech.service;**

**import com.zeetech.model.Connection;**

**import org.springframework.stereotype.Service;**

**import java.util.ArrayList;**

**import java.util.List;**

**@Service**

**public class ProviderService {**

**private List<Connection> connections = new ArrayList<>();**

**public ProviderService() {**

**//write your code**

**}**

**public Connection findConnectionById(int id) {**

**//write business logic code, use stream**

**}**

**public List<Connection> viewAllConnections() {**

**//write business logic code**

**}**

**public Connection addConnection(Connection connection) {**

**//write business logic code**

**}**

**}**

**Create a controller class**

**package com.zeetech.controller;**

**import com.zeetech.model.Connection;**

**import com.zeetech.service.ProviderService;**

**import org.springframework.beans.factory.annotation.Autowired;**

**import org.springframework.web.bind.annotation.\*;**

**import java.util.List;**

**public class ShoppingController**

**{**

**private ProviderService providerService;**

**public Connection findConnectionById( int id)**

**{**

**//write BL code**

**}**

**public List<Connection> findAllConnections()**

**{**

**//write BL code**

**}**

**public Connection addConnection Connection connection)**

**{**

**//write BL code**

**}**

**}**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*test the above service class using Junit**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*write proper log file for all methods insdie service and controller inside myapp.log file**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*use Lombok to reduce boiler plate code**