Telecom-service

```
Entity
package com.springtelecom.entities;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import lombok.Data;
@Data
@Entity
public class Telecom {
     @Id
     @GeneratedValue(strategy = GenerationType.IDENTITY)
     private Integer companyId;
     private String companyName;
     private String companyCEO;
```

```
private String companyServices;
     private Integer companyEstablishedYear;
}
Telecom Controller
package com.springtelecom.controllers;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.springtelecom.entities.Telecom;
import com.springtelecom.services.TelecomService;
@RestController
@RequestMapping("api/v1")
public class TeelcomController {
```

```
@Autowired
     TelecomService service;
     @GetMapping("/telecoms/{comapnyName}")
     public Optional<Telecom> getByName(String companyName){
           return service.getByName(companyName);
     }
     @GetMapping("/telecoms")
     public Iterable<Telecom> getAllCompanies()
     {
           return service.getAllCompanies();
     }
     @PostMapping("/telecoms")
     public void addCompany(@RequestBody Telecom telecom) {
           service.addCompany(telecom);
     }
}
```

Telecom Service

```
package com.springtelecom.services;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.springtelecom.entities.Telecom;
import com.springtelecom.repositories.TelecomRepository;
@Service
public class TelecomService {
     @Autowired
     TelecomRepository repository;
     public Optional<Telecom> getByName(String companyName){
           return repository.findByCompanyName(companyName);
     }
     public Iterable<Telecom> getAllCompanies() {
```

```
// TODO Auto-generated method stub
return repository.findAll();
}

public void addCompany(Telecom telecom) {
    // TODO Auto-generated method stub
    repository.save(telecom);
}
```

Telecom Repository

```
package com.springtelecom.repositories;

import java.util.Optional;

import org.springframework.data.repository.CrudRepository;

import org.springframework.stereotype.Repository;

import com.springtelecom.entities.Telecom;
```

@Repository

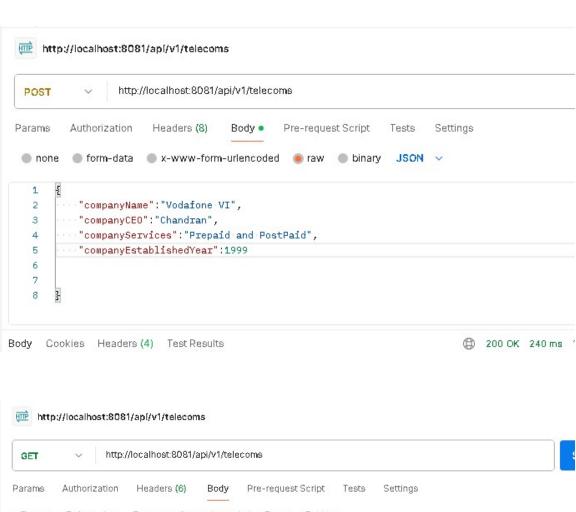
public interface TelecomRepository extends CrudRepository<Telecom, Integer>{

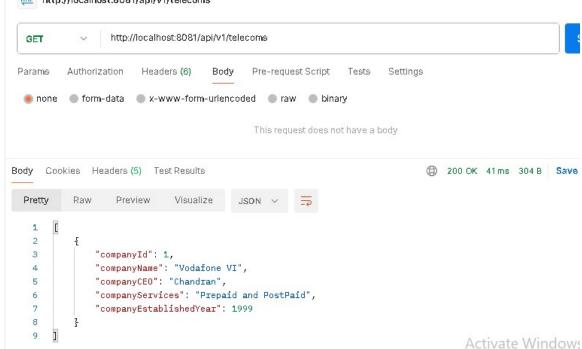
Optional<Telecom> findByCompanyName(String companyName);

}

Outputs







Customer Entity package com.springcustomerservice.entities; import jakarta.persistence.Entity; import jakarta.persistence.GeneratedValue; import jakarta.persistence.GenerationType; import jakarta.persistence.Id; import jakarta.persistence.ManyToMany; import lombok.Data; @Entity @Data public class Customer { @Id @GeneratedValue(strategy = GenerationType.IDENTITY) private Integer customerId; private String customerName; private String customerSubscription;

private String customerTelecomCompany;

```
}
Customer Controller
package com.springcustomerservice.controllers;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.springcustomerservice.entities.Customer;
import com.springcustomerservice.services.CustomerService;
@RestController
@RequestMapping("api/v1")
public class CustomerController {
     @Autowired
     CustomerService customerService;
     @GetMapping("/customers/name/{name}")
```

```
Optional<Customer> getByCustomerName(String name){
           return
                      customerService.getByCustomerName(name);
           }
     @GetMapping("/customers/subscriptionpaln/{subscriptionpaln}"
)
           Iterable<Customer> getByCustomerBySubscription(String
subscriptionpaln){
                return
     customerService.getByCustomerBySubscription(subscriptionpaln
);
                }
}
Customer Service
package com.springcustomerservice.services;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.web.client.RestTemplate;
import com.springcustomerservice.entities.Customer;
import com.springcustomerservice.repositories.CustomerRepository;
```

```
@Service
public class CustomerService {
     @Autowired
     RestTemplate restTemplate;
     @Autowired
     CustomerRepository customerRepository;
     public Optional<Customer> getByCustomerName(String name){
                customerRepository.findByCustomerName(name);
     return
     }
     public Iterable<Customer> getByCustomerBySubscription(String
subscriptionpaln){
           return
     customerRepository.findByCustomerSubscription(subscriptionpa
ln);
           }
}
Customer Repo
package com.springcustomerservice.repositories;
import java.util.Optional;
```

```
import org.springframework.data.repository.CrudRepository;
import org.springframework.stereotype.Repository;
import com.springcustomerservice.entities.Customer;
@Repository
public interface CustomerRepository extends
CrudRepository<Customer, Integer> {
     Optional<Customer> findByCustomerName(String customerName);
     Iterable < Customer > findByCustomerSubscription(String)
customerSubscription);
}
App config
package com.springcustomerservice.config;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.client.RestTemplate;
@Configuration
public class AppConfig {
     @Bean
```

```
public RestTemplate getRestTemplate() {
    return new RestTemplate();
}
```

