

Edit Source Refactor Navigate Search Project Run Window Help

FranchiseAP... FranchiseDT... FranchiseRe... x FranchiseSe... FranchiseSe... ExceptionCon... FranchiseVal... MovieBookin... MovieBookin... 10

```
1 package com.infy.franchiseallocation.repository;
2
3 import java.util.List;
4
5 import org.springframework.data.jpa.repository.Query;
6 import org.springframework.data.repository.CrudRepository;
7
8 import com.infy.franchiseallocation.entity.Franchise;
9
10 public interface FranchiseRepository extends CrudRepository<Franchise, Integer> {
11
12     @Query("SELECT f FROM StoreFranchise f WHERE f.location = ?1")
13     public List<Franchise> getFranchiseByLocation(String location);
14
15     public List<Franchise> findByfranchiseNameAndLocation(String franchiseName, String location);
16
17 }
18 |
```

I

eclipse-workspace - FranchiseAllocation/src/main/java/com/infy/franchiseallocation/validator/FranchiseValidator.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

FranchiseValidator.java x Regex.java application.properties

FranchiseAllocation src/main/java com.infy.franchiseallocation.validator FranchiseValidator

```
38
39
40 }
41 public static Boolean isValidDates(LocalDate registrationDate, LocalDate startUpDate)
42 {
43     if(startUpDate.isBefore(registrationDate)||startUpDate.isAfter(registrationDate.plusMonths(6)))
44     {
45         return false;
46     }
47     return true;
48 // -----OTHER WAY-----
49 //     if(startUpDate.isEqual(registrationDate))
50 //     {
51 //         return true;
52 //     }
53 //     else
54 //         if(startUpDate.isAfter(registrationDate)||startUpDate.isBefore(registrationDate.plusMonths(6)))
55 //         {
56 //             return true;
57 //         }
58 //     return false;
59 }
60 public static Boolean isValidTaxNo(String taxNumber)
61 {
62     String regex="[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I-[15]";
63     //OTHERS ==>[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I-[15]
64     //[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I-(1|5)
65     //[0-9]{2}[-][A-Z]{8}[-][0-9]{1,}+[-]I[-](1|5)
66     if(taxNumber.matches(regex))
67     {
68         return true;
69     }
70     return false;
71 }
72
73
74 }
```

```
30 |
31- public static Boolean isValidQuotedPrice(Double quotedPrice)
32 {
33     if(quotedPrice<1000000.0)
34     {
35         return false;
36     }
37     return true;
38
39 }
40
41- public static Boolean isValidDates(LocalDate registrationDate, LocalDate startUpDate)
42 {
43     if(startUpDate.isBefore(registrationDate)||startUpDate.isAfter(registrationDate.plusMonths(6)))
44     {
45         return false;
46     }
47     return true;
48 // -----OTHER WAY-----
49 //     if(startUpDate.isEqual(registrationDate))
50 //     {
51 //         return true;
52 //     }
53 //     else
54 //         if(startUpDate.isAfter(registrationDate)||startUpDate.isBefore(registrationDate.plusMonths(6)))
55 //         {
56 //             return true;
57 //         }
58 //     return false;
59 }
60- public static Boolean isValidTaxNo(String taxNumber)
61 {
62     String regex="[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I-[15]";
63     //oTHERS ==>[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I-[15]
64     //[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I-(1|5)
65     //[0-9]{2}-[A-Z]{8}-[0-9]{1,}+-I[-](1|5)
66     if(taxNumber.matches(regex))
```

```
1 package com.infy.franchiseallocation.service;
2
3 import java.util.ArrayList;
4
5
6 @Service(value = "franchiseeService")
7 @Transactional
8 public class FranchiseServiceImpl implements FranchiseService {
9
10     @Autowired
11     private FranchiseRepository franchiseRepository;
12
13     @Override
14     public List<FranchiseDTO> getFranchiseeReport(String location) throws StoreFranchiseException {
15         List<Franchise> franchise = franchiseRepository.getFranchiseByLocation(location);
16         if (franchise.isEmpty()) {
17             throw new StoreFranchiseException("FranchiseeService.FRANCHISEE_UNAVIALABLE");
18         }
19         List<FranchiseDTO> franchiseDTO = new ArrayList<>();
20         franchise.stream().forEach(x -> franchiseDTO.add(new FranchiseDTO().prepareDTO(x)));
21         franchiseDTO.sort((x1, x2) -> x1.getRegistrationdate().compareTo(x2.getRegistrationdate()));
22         return franchiseDTO;
23     }
24
25     @Override
26     public Double calculateTenure(Double quotedPrice) {
27         // TODO Auto-generated method stub
28     }
29 }
```

```

31 franchiseDTO.sort((x1, x2) -> x1.getRegistrationdate().compareTo(x2.getRegistrationdate()));
32 return franchiseDTO;
33 }
34
35 @Override
36 public Double calculateTenure(Double quotedPrice) {
37     // TODO Auto-generated method stub
38     return null;
39 }
40
41 @Override
42 public FranchiseDTO allocateFranchise(FranchiseDTO franchiseDTO) throws StoreFranchiseException {
43     FranchiseValidator.validateFranchise(franchiseDTO);
44     List<Franchise> franchise1 = franchiseRepository.findByfranchiseNameAndLocation(franchiseDTO.getFranchiseName(),
45         franchiseDTO.getLocation());
46     if (Boolean.FALSE.equals(franchise1.isEmpty())) {
47         throw new StoreFranchiseException("FranchiseeService.FRANCHISEE_ALREADY_PRESENT");
48     }
49     Franchise franchise2 = FranchiseDTO.prepareEntity(franchiseDTO);
50     franchise2.setTenure(calculateTenure(franchiseDTO.getQuotedPrice()));
51     franchiseRepository.save(franchise2);
52     FranchiseDTO franchiseDTO1 = FranchiseDTO.prepareDTO(franchise2);
53     return franchiseDTO1;
54 }
55
56 }

```



```
20 import com.infy.franchiseallocation.service.FranchiseService;
21
22 @RestController
23 @RequestMapping(value = "")
24 @Validated
25 public class FranchiseAPI {
26
27     @Autowired
28     private FranchiseService franchiseService;
29
30     @GetMapping(value = "")
31     public ResponseEntity<List<FranchiseDTO>> getFranchiseeReport(@PathVariable String location)
32         throws StoreFranchiseException {
33
34         List<FranchiseDTO> franchiseDTO2 = franchiseService.getFranchiseeReport(location);
35         return new ResponseEntity<>(franchiseDTO2, HttpStatus.OK);
36     }
37
38     @PostMapping(value = "", consumes = "application/json")
39     public ResponseEntity<FranchiseDTO> allocateFranchise(@RequestBody @Valid FranchiseDTO franchiseDTO)
40         throws StoreFranchiseException {
41
42         FranchiseDTO franchiseDTO3 = franchiseService.allocateFranchise(franchiseDTO);
43         return new ResponseEntity<>(franchiseDTO3, HttpStatus.CREATED);
44     }
45 }
```

```
1 package com.infy.franchiseallocation.repository;
2
3 import java.util.List;
4
5 import org.springframework.data.jpa.repository.Query;
6 import org.springframework.data.repository.CrudRepository;
7
8 import com.infy.franchiseallocation.entity.Franchise;
9 import com.infy.franchiseallocation.exception.FranchiseAllocationException;
10
11 public interface FranchiseRepository extends CrudRepository<Franchise, Integer> {
12     @Query("SELECT f from Franchise f WHERE f.location=?1")
13     List<Franchise> getFranchiseByLocation(String location) throws FranchiseAllocationException;
14     List<Franchise> findByFranchiseNameAndLocation(String franchiseName, String location) throws FranchiseAllocationException;
15 }
16
```

```
1 package com.infy.franchiseallocation.validator;
2
3 import java.time.LocalDate;
4
5
6
7
8 public class FranchiseValidator {
9
10     public FranchiseValidator() {
11         super();
12         // TODO Auto-generated constructor stub
13     }
14
15     public static void validateFranchise(FranchiseDTO franchiseDTO) throws FranchiseAllocationException
16     {
17         if(isValidQuotedPrice(franchiseDTO.getQuotedPrice())==false)
18         {
19             throw new FranchiseAllocationException("FranchiseValidator.INVALID_QUOTEDPRICE");
20         }
21         if(isValidDates(franchiseDTO.getRegistrationDate(), franchiseDTO.getStartUpdate())==false)
22         {
23             throw new FranchiseAllocationException("FranchiseValidator.INVALID_DATE");
24         }
25         if(isValidTaxNo(franchiseDTO.getTaxNumber())==false)
26         {
27             throw new FranchiseAllocationException("FranchiseValidator.INVALID_TAXNO");
28         }
29     }
30
31     public static Boolean isValidQuotedPrice(Double quotedPrice)
32     {
33         if(quotedPrice<1000000.0)
34         {
35             return false;
36         }
37         return true;
38     }
39
40 }
```



```

18 public class FranchiseServiceImpl implements FranchiseService {
19     @Autowired
20     private FranchiseRepository franchiseRepository;
21     @Override
22     public List<FranchiseDTO> getFranchiseReport(String location) throws FranchiseAllocationException {
23         // TODO Auto-generated method stub
24         List<Franchise> franchises = franchiseRepository.getFranchiseByLocation(location);
25         if(franchises.isEmpty())
26         {
27             throw new FranchiseAllocationException("FranchiseService.FRANCHISE_UNAVAILABLE");
28         }
29         List<FranchiseDTO> franchiseDTOs = new ArrayList<FranchiseDTO>();
30         for(Franchise franchise: franchises)
31         {
32             FranchiseDTO franchiseDTO = FranchiseDTO.prepareDTO(franchise);
33             franchiseDTOs.add(franchiseDTO);
34         }
35         franchiseDTOs.sort((f1,f2)->f2.getRegistrationDate().compareTo(f1.getRegistrationDate()));
36         return franchiseDTOs;
37     }
38
39     @Override // I am expecting the gp like this
40     public FranchiseDTO allocateFranchise(FranchiseDTO franchiseDTO) throws FranchiseAllocationException {
41         // TODO Auto-generated method stub
42         FranchiseValidator.validateFranchise(franchiseDTO);
43         List<Franchise> franchises = franchiseRepository.findByFranchiseNameAndLocation(franchiseDTO.getFranchiseName(), franchiseDTO.getLocation());
44         if(!franchises.isEmpty())
45         {
46             throw new FranchiseAllocationException("FranchiseService.FRANCHISE_ALREADY_PRESENT");
47         }
48         franchiseDTO.setTenure(calculateTenure(franchiseDTO.getQuotedPrice()));
49         Franchise franchise = FranchiseDTO.prepareEntity(franchiseDTO);
50         franchise = franchiseRepository.save(franchise);
51         franchiseDTO.setFranchiseId(franchise.getFranchiseId());
52         return franchiseDTO;
53     }
54

```