

Assignment -2

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Learner declaration

I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.

Student signature: **Chathushi**

Date: 02/01/2023

1. Create the Store Entity object with below fields.
 - a. String name
 - b. String phone_number
 - c. String [] localities // list of areas or localities the store serves

```
1 package com.lithan.a2.entity;
2
3 import javax.persistence.Entity;
4 import javax.persistence.GeneratedValue;
5 import javax.persistence.GenerationType;
6 import javax.persistence.Id;
7 import javax.persistence.Table;
8
9 @Entity
10 @Table(name = "tb_store")
11 public class Store {
12     @Id
13     @GeneratedValue(strategy = GenerationType.IDENTITY)
14     private int id_store;
15
16     private String name;
17     private String phone_number;
18     private String localities;
19
20     public Store() {
21
22     }
23
24     public Store(String name, String phone_number, String localities) {
25         this.name = name;
26         this.phone_number = phone_number;
27         this.localities = localities;
28     }
29
30     public int getId_store() {
31         return id_store;
32     }
33
34     public void setId_store(int id_store) {
35         this.id_store = id_store;
36     }
37
38     public String getName() {
39         return name;
40     }
41
42     public void setName(String name) {
43         this.name = name;
44     }
45
46     public String getPhone_number() {
47         return phone_number;
48     }
49
50     public void setPhone_number(String phone_number) {
51         this.phone_number = phone_number;
52     }
53
54     public String getLocalities() {
55         return localities;
56     }
57
58     public void setLocalities(String localities) {
59         this.localities = localities;
60     }
61 }
62
63
```

Figure 1: Screenshot of store.java

2. Develop a Controller class with a method to add Store to the system with POST HTTP method. <http://<host>:<port>/stores>

```
1 package com.lithan.a2.controller;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.stereotype.Controller;
5 import org.springframework.web.bind.annotation.ModelAttribute;
6 import org.springframework.web.bind.annotation.RequestMapping;
7 import org.springframework.web.bind.annotation.RequestMethod;
8 import org.springframework.web.servlet.ModelAndView;
9
10 import com.lithan.a2.entity.Store;
11 import com.lithan.a2.service.StoreService;
12
13 @Controller
14 public class StoreController {
15
16     @Autowired
17     private StoreService storeService;
18
19     @RequestMapping("/")
20     public ModelAndView storeHome() {
21         ModelAndView mv = new ModelAndView("store");
22         Store store = new Store();
23
24         mv.addObject("store", store);
25         return mv;
26     }
27
28     @RequestMapping(value = "/stores", method = RequestMethod.POST)
29     public String addStore(@ModelAttribute("store") Store store) {
30
31         if(store != null) {
32             storeService.addStore(store);
33         }
34
35         return "redirect:/";
36     }
37 }
38
```

Figure 2: Screenshot of StoreController.java

3. Develop a Service class to add Store to the repository

```
package com.lithan.a2.service;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.transaction.annotation.Transactional;

import com.lithan.a2.entity.Store;
import com.lithan.a2.repo.StoreRepository;

@Service
@Transactional
public class StoreServiceImpl implements StoreService {

    @Autowired
    private StoreRepository storeRepo;

    public void addStore(Store store) {

        storeRepo.save(store);
    }
}
```

Figure 3: Screenshot of StoreServiceImpl.java

4. Develop a DAO class that just adds a given store to the list of stores maintained.
 - a. We didn't go through the database module yet.
 - b. So just maintain a list of stores as a field (i.e., member variable) in DAO class.
 - c. Add a store object to that list.

```
package com.lithan.a2.repo;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.lithan.a2.entity.Store;

@Repository
public interface StoreRepository extends JpaRepository<Store, Integer>{

}
```

5.-----Table-----

Before Submit



Result Grid			Filter Rows:	<input type="text"/>	Edit:			
	id_store	name	phone_number	localities				
*	NULL	NULL	NULL	NULL				

After Submit

Name

Phone Number

Localities

<div> <div>Result Grid</div> <div>   Filter Rows: <input type="text"/> </div> </div>				
	id_store	name	phone_number	localities
▶	1	Leo	+94123456789	Kandy
●	NULL	NULL	NULL	NULL

Source Code



Assignment 2.rar