



Assignment -3

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Academic Year:	2022/23
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Project Title:	Assignment 3 - ADP
Issue Date:	24/11/2022
Submission Date:	02/01/2023
Internal Verifier Name:	
Date:	02/01/2023

Learner declaration

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

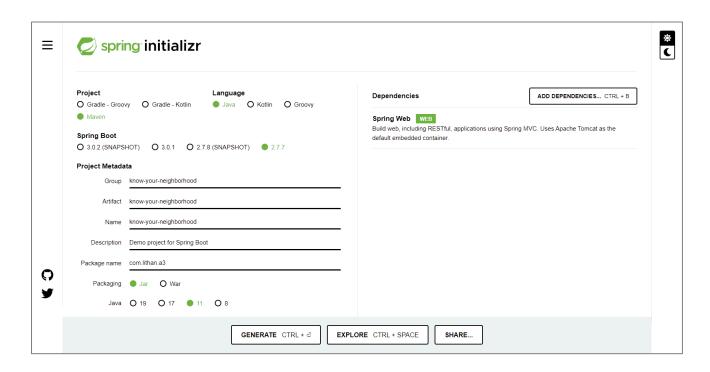
Student signature: Chathushi Date: 02/01/2022

Module No:	1	IU No:	3	Exercise	1
				No.	

Lab	Assignment 4 - Spring Boot			
Assessment	Let's build on the previous assignment.			
Statement	Lot o build on the provious assignment.			
	1. Create a Spring Boot application for "Know-Your-Neighborhood".			
	2. Add support for JSP views and create required folder structure.			
	3. Move already developed classes into this project.			
	Develop all components required to view the stores			
	a. Add method to existing Controller class to receive the request			
	to fetch stores			
	b. Add method to existing Service class to process the request			
	(or add method to existing service class)			
	c. Add method existing repository class to return all available			
	stores.			
	d. Create HTML to view the stores. Show name, phone number			
	and localities it serves for each store.			
	e. Ensure that view stores request works end-to-end. (i.e., should			
	be able to submit request to view the stores in the browser			
	and get the page back with all stores).			
	5. Create an HTML page to add a store and link it to the view stores			
	page. 6. Let the response of add request submission be the view page that			
	shows all stores including recently added store.			
	Shows an stores moldaning recently added store.			
Technical	-			
Environment				
Guidelines	_			
Duration	120 mins			

Let's build on the previous assignment.

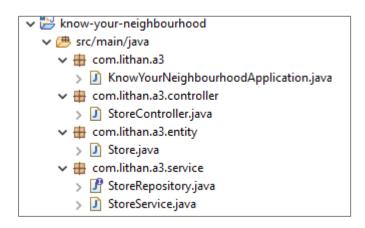
1. Create a Spring Boot application for "Know-Your-Neighbourhood"



2. Add support for JSP views and create required folder structure.

```
spring.mvc.view.prefix=/WEB-INF/
spring.mvc.view.suffix=.jsp
```

3. Move already developed classes into this project



4. Develop all components required to view the stores

a. Add method to existing Controller class to receive the request to fetch stores

```
1 package com.lithan.a3.controller;
3 import java.util.List;
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.stereotype.Controller;
7 import org.springframework.ui.Model;
8 import org.springframework.web.bind.annotation.GetMapping;
9 import org.springframework.web.bind.annotation.ModelAttribute;
10 import org.springframework.web.bind.annotation.PostMapping;
11 import org.springframework.web.servlet.ModelAndView;
12
13 import com.lithan.a3.entity.Store;
14 import com.lithan.a3.service.StoreRepository;
15
16 @Controller
17 public class StoreController {
18
19
    @Autowired
20
    StoreRepository storeService;
21
22
    @GetMapping("/store")
23
    public ModelAndView viewStore() {
24
      ModelAndView mv = new ModelAndView("store");
25
26
      List<Store> stores = storeService.listAll();
27
28
      mv.addObject("stores", stores);
29
30
       return mv;
31
    }
32
33
    @GetMapping("/addStore")
    public String addStore(Model model) {
34
35
       Store store = new Store();
36
       model.addAttribute("store", store);
37
38
39
       return "add-store";
40
    }
41
    @PostMapping("/saveAddStore")
42
43
    public String saveAddStore(@ModelAttribute("store") Store store) {
44
45
       storeService.save(store);
46
47
       return "redirect:/store";
48
    }
49 }
50
```

b. Add method to existing Service class to process the request (or add method to existing service class)

```
package com.lithan.a3.service;
import java.util.ArrayList;
import java.util.List;
import org.springframework.stereotype.Service;
import com.lithan.a3.entity.Store;
@Service
public class StoreService implements StoreRepository {
 private List<Store> stores = new ArrayList<Store>();
 @Override
 public void save(Store store) {
    stores.add(store);
 @Override
 public List<Store> listAll() {
    return stores;
  }
}
```

c. Add method existing repository class to return all available stores.

```
package com.lithan.a3.service;
import java.util.List;
import com.lithan.a3.entity.Store;
public interface StoreRepository {
  public void save(Store store);
  public List<Store> listAll();
}
```

d. Create HTML to view the stores. Show name, phone number and localities it serves for each store.

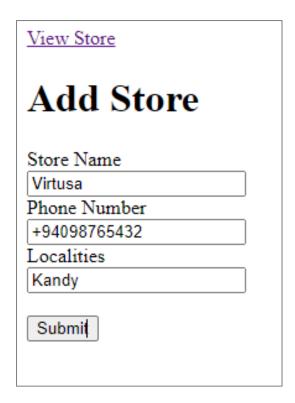
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1" isELIgnored="false"%>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Know Your Neighborhood</title>
</head>
<body>
 <a href="<%= request.getContextPath() %>/addStore">Add Store</a>
 Store Name
     Phone Number
     Localities
   <c:forEach items="${stores}" var="store">
     ${store.name}
      ${store.phone number}
      ${store.localities}
     </c:forEach>
 </body>
</html>
```

e. Ensure that view stores request works end-to-end.

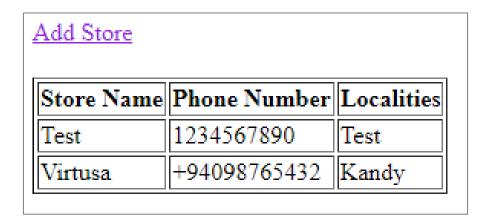
Add Store		
Store Name	Phone Number	Localities
Test	1234567890	Test

5. Create an HTML page to add a store and link it to the view stores page.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1" isELIgnored="false"%>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Know Your Neighborhood</title>
<style type="text/css">
 label, input {
   display: block;
</style>
</head>
<body>
 <a href="<%= request.getContextPath() %>/store">View Store</a>
 <form:form modelAttribute="store" action="saveAddStore" method="POST">
   <h1>Add Store</h1>
   <label>Store Name</label>
   <form:input type="text" path="name"/>
   <label>Phone Number</label>
   <form:input type="text" path="phone_number"/>
   <label>Localities</label>
   <form:input type="text" path="localities"/>
   <button type="submit">Submit</button>
 </form:form>
</body>
</html>
```



6. Let the response of add request submission be the view page that shows all stores including recently added store.



Source Code

