



Assignment -3

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Academic Year:	2022-2023
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Project Title:	Assignment 3 -
Issue Date:	4/13/2023
Submission Date:	4/13/2023
Internal Verifier Name:	Archana Sakpal
Date:	4/13/2023

Learner declaration

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

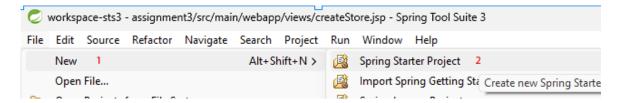
Student signature:

Date: 4/13/2023

Let's build on the previous assignment. (Develop "Know-Your-Neighbourhood") application. The goal of this application is to provide details on all stores in the user's neighbourhood.

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

Inside Spring Tool Suite 3, click on File then New then Spring Starter Project.

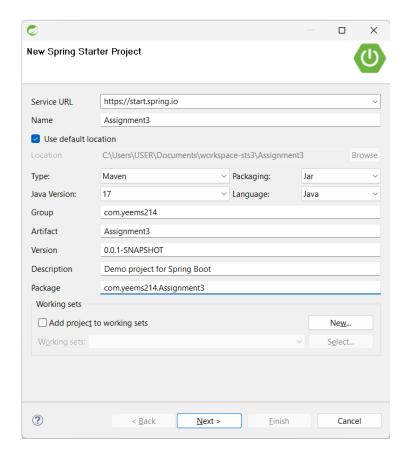


Inside the Spring Starter Project form, fill out necessary information but make sure you set:

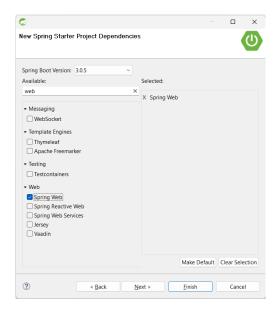
- Type: Maven

- Java Version: 17

then click next.



After that, look for Spring Web inside the Spring Starter Project Dependencies then click Finish.

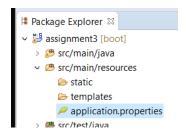


After your project has been created, open pom.xml and kindly add these required dependencies.

```
<dependency>
<groupld>org.apache.tomcat.embed</groupld>
<artifactId>tomcat-embed-jasper</artifactId>
</dependency>
<dependency>
<groupld>org.glassfish.web</groupld>
<artifactId>jakarta.servlet.jsp.jstl</artifactId>
<version>2.0.0</version>
</dependency>
<dependency>
<groupld>javax.servlet</groupld>
<artifactId>javax.servlet</groupld>
<artifactId>javax.servlet</artifactId>
<version>4.0.1</version>
<scope>provided</scope>
</dependency>
</dependency>
```

- Here's what it should look like after:

After importing those dependencies above, expand src/main/resources then open application.properties.



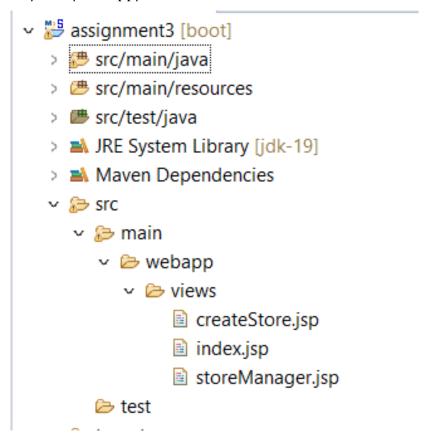
Lastly, inside application.properties, add these following lines of code:

```
spring.mvc.view.prefix=/views/
spring.mvc.view.suffix=.jsp
server.port=9092
```

- Spring.mvc.view.prefix points to the /views/ directory inside the project which contains your .jsp files.
- Spring.mvc.view.suffix means that it should only be reading files with the .jsp as its filename.
- Server.port refers to the port that your web server is going to use to host the project.

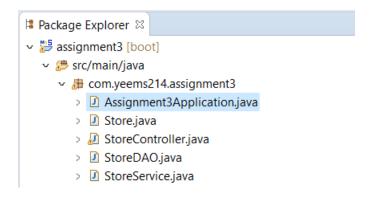
2. Add support for JSP views and create required folder structure.

After the Spring Starter Project has created, make sure you create a folder inside src/main as webapp then create a folder named views inside webapp then lastly, import your previous KnowYourNeighborhood jsp files inside src/main/webapp/views folder.



3. Move already developed classes into this project.

After importing those jsp files, you will need to copy the .java classes from the previous KnowYourNeighborhood project package then copy them all to the new package inside which for this project, it's enclosed in com.yeems214.assignment3



- 4. Develop all components required to view the stores
 - a. Add method to existing Controller class to receive the request to fetch stores

```
☑ StoreController.java 
☒
 1 package com.yeems214.assignment3;
           import java.util.List;
           import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.wi.Model;
import org.springframework.wb.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
     10 import org.springframework.web.bind.annotation.RequestMethod;
            public class StoreController {
                     @Autowired
public StoreService s_Service;
                     @GetMapping("/home"
                      public String home() {
    return "redirect:/";
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                      @GetMapping("addMoreStore")
public String addMore() {
                                 return "redirect:addStore";
                     // Display AddStore form
@RequestMapping(value="/CreateStore" , method=RequestMethod.GET)
public String addStoreForm(Model model) {
    System.out.println("Create Store Info");
    model.addAttribute("store", new Store());
    return "createStore";
                     // Save the Store
@RequestMapping(value="/saveStore", method=RequestMethod.POST)
public String saveStore(Store store) {
   System.out.println("Save Store Info");
   Store savedStore = s_Service.saveStore(store);
   return "redirect:StoreManager";
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}
                     // View all stores
@RequestMapping(value="/StoreManager", method=RequestMethod.GET)
public String viewStore(Model model) {
    System.out.println("Show all stores");
    ListsStore> allStores = s_Service.listAllStore();
    System.out.println(allStores);
    model.addAttribute("all Stores", allStores);
    return "storeManager";
                                  return "storeManager";
```

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

```
1 package com.yeems214.assignment3;
  3⊕ import java.util.List; ...
 8 @Service
 9 public class StoreService {
 10
 11⊖
       @Autowired
      private StoreDAO storedao;
 12
 13
       public Store saveStore(Store store) {
 14⊖
 15
           return storedao.saveStore(store);
 16
 17
 18⊖
       public List<Store> listAllStore() {
 19
           return storedao.listAllStore();
 20
 21
 22 }
 23
```

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

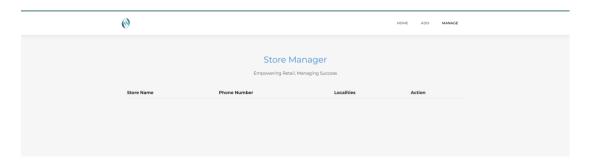
```
package com.yeems214.assignment3;
3⊕ import java.util.ArrayList; ...
  8 @Repository
  9 public class StoreDAO {
       List<Store> stores = new ArrayList<Store>();
 13⊝
       public Store saveStore (Store store) {
 14
           stores.add(store);
 15
           return store;
 16
       public List<Store> listAllStore() {
 18⊖
 19
           return stores;
 20
 22 }
```

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

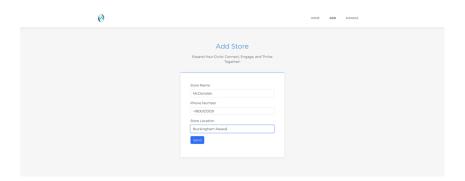
```
400 < main class="page contact-us-page">
       in class="page contact-us-page">
<section class="clean-block clean-form dark">
<div class="container">
<div class="block-heading">
<h2 class="text-info">Store Manager</h2>
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510
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590
                          Localities
                              Action
                          <a class="pr-5" href="addMoreStore" style="text-decoration: none;">Add</a>
<a href="home" style="text-decoration: none;">Home</a>

</c:forEach>
                          </div>
              </section>
       </section>
79 </main>
```

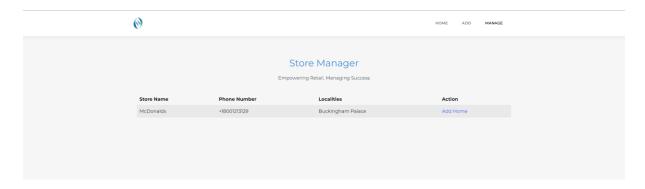
- e. Ensure that view stores request works end-to-end. (i.e., should be able to submit request to view the stores in the browser and get the page back with all stores).
 - No Data



- Adding Data



- Store Manager with Data

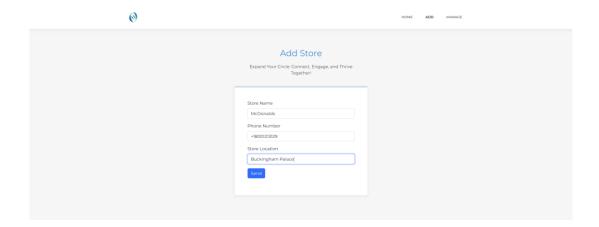


5. Create an HTML page to add a store and link it to the view stores page.

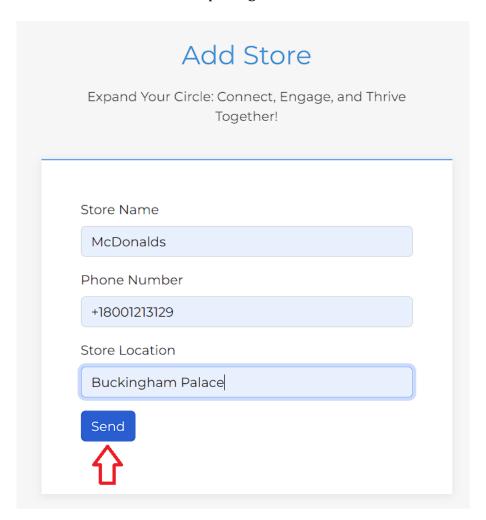
```
| Control | Cont
```

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

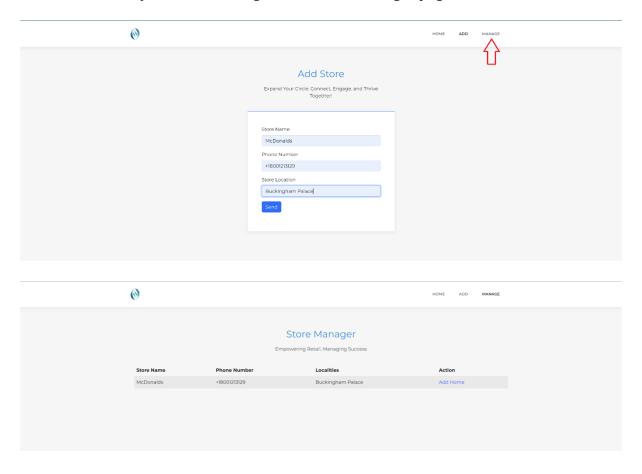
After loading into the page, go to Add then enter your new store data (Name, Phone Number, Localities)



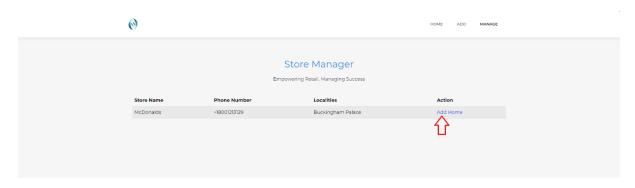
Submit the store form after completing.



After that, you will need to go to the Store Manager page.



Click the "Add" button inside Store Manager to add a new store.



After adding another store, go back to the Store Manager page which then shows the newly added store.

