

Assignment – 4

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Academic Year:	2022-2023
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Project Title:	Assignment 4 – Spring Boot + JPA
Issue Date:	4/14/2023
Submission Date:	4/15/2023
Internal Verifier Name	Archana Sakpal
Date:	4/15/2023

Learner declaration

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

Student signature:

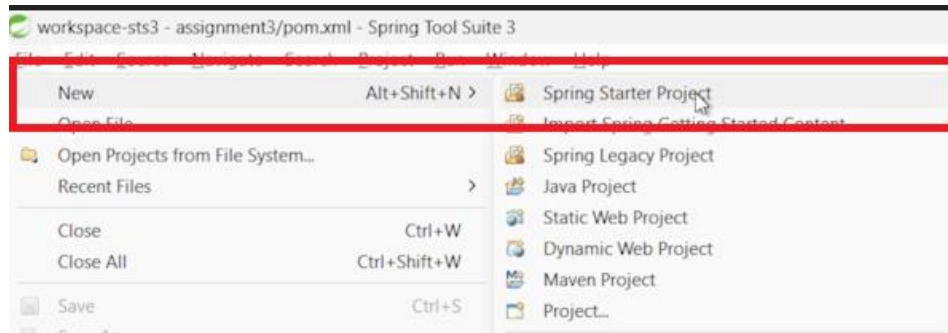


Date: 4/14/2023

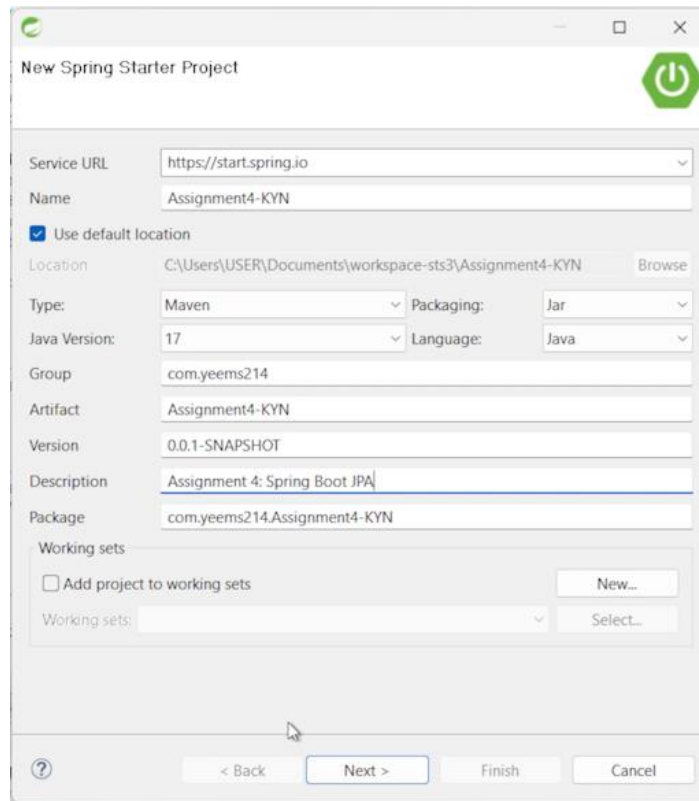
Solution

1. Create a Spring Boot application for “Know-Your-Neighborhood”.

Step 1: Create a Spring Starter Project.



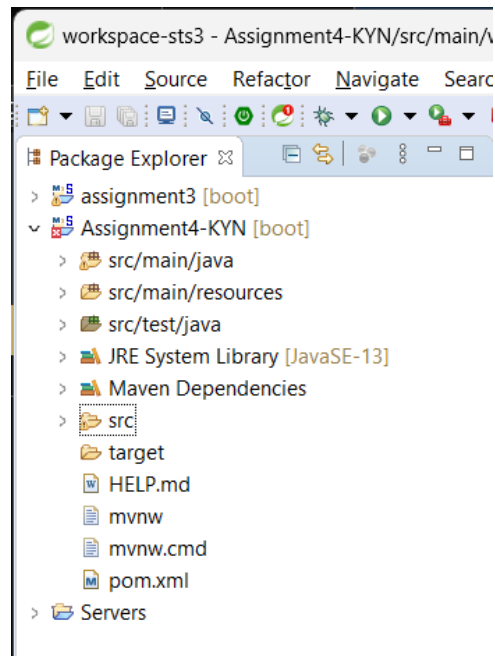
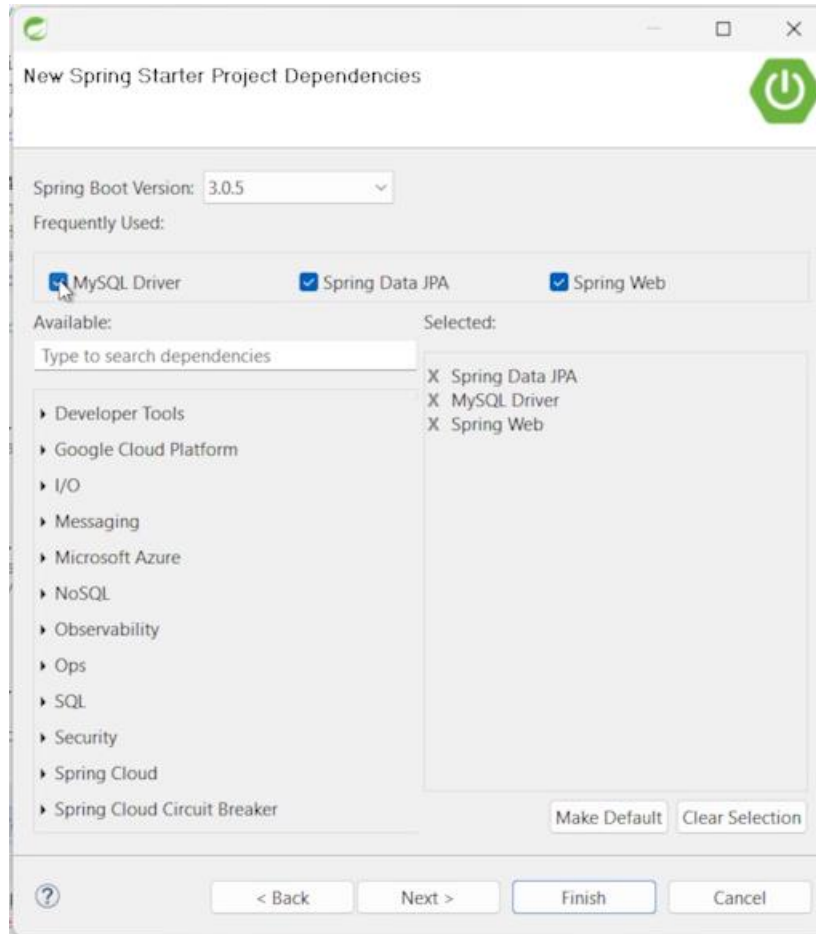
Step 2: Fill out the Group, Artifact and Package fields in the form and set your Java version to 17 and Type to Maven.

A screenshot of the 'New Spring Starter Project' dialog box in Spring Tool Suite 3. The dialog box contains the following fields and values:

- Service URL: <https://start.spring.io>
- Name: Assignment4-KYN
- ☒ Use default location
- Location: C:\Users\USER\Documents\workspace-sts3\Assignment4-KYN
- Type: Maven
- Packaging: Jar
- Java Version: 17
- Language: Java
- Group: com.yeems214
- Artifact: Assignment4-KYN
- Version: 0.0.1-SNAPSHOT
- Description: Assignment 4: Spring Boot JPA
- Package: com.yeems214.Assignment4-KYN

At the bottom, there is a 'Working sets' section with an unchecked checkbox 'Add project to working sets' and a 'New...' button. Below that is a 'Working sets:' dropdown menu and a 'Select...' button. At the very bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted by the mouse cursor.

Step 3: Inside the Spring Starter Project Dependencies form, look for the MySQL Driver, Spring Data JPA and Spring Web dependencies and select them, right after that click next.



Pom.xml

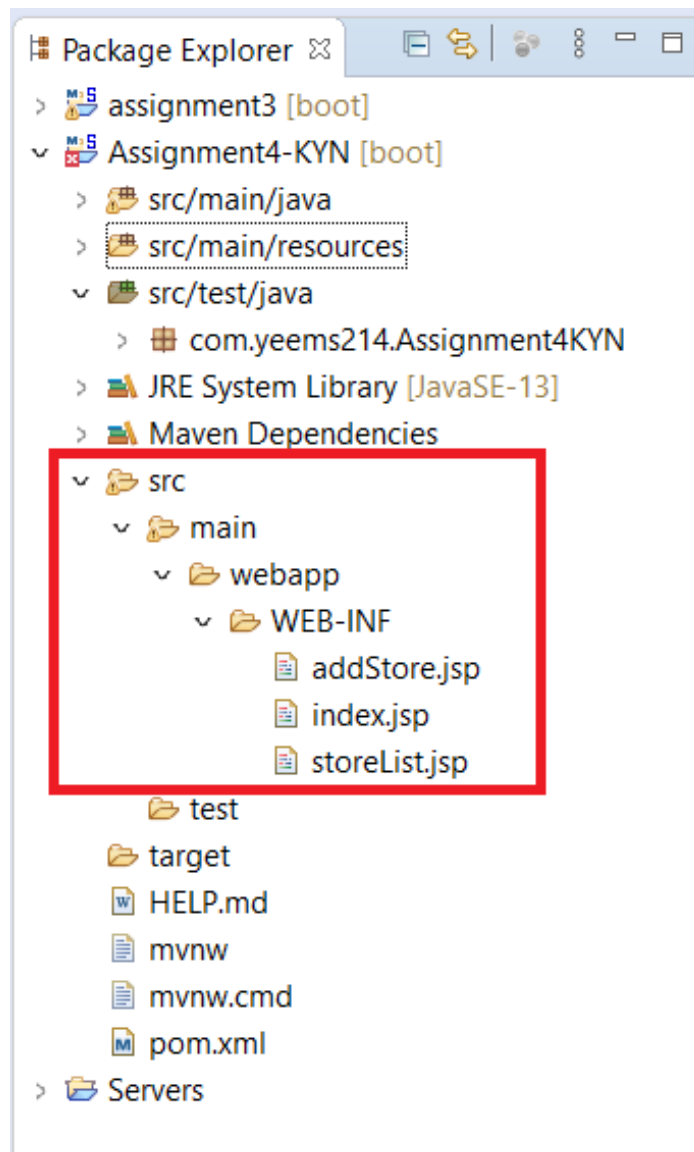
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6         <groupId>org.springframework.boot</groupId>
7         <artifactId>spring-boot-starter-parent</artifactId>
8         <version>2.6.9</version>
9         <relativePath/> <!-- lookup parent from repository -->
10    </parent>
11    <groupId>com.yeems214</groupId>
12    <artifactId>Assignment4-KYN</artifactId>
13    <version>0.0.1-SNAPSHOT</version>
14    <name>Assignment4-KYN</name>
15    <description>A4: Spring Boot JPA</description>
16    <properties>
17        <java.version>17</java.version>
18    </properties>
19    <dependencies>
20        <dependency>
21            <groupId>org.springframework.boot</groupId>
22            <artifactId>spring-boot-starter-web</artifactId>
23        </dependency>
24
25        <dependency>
26            <groupId>org.springframework.boot</groupId>
27            <artifactId>spring-boot-starter-test</artifactId>
28            <scope>test</scope>
29        </dependency>
30
31        <!-- https://mvnrepository.com/artifact/jstl/jstl -->
32        <dependency>
33            <groupId>jstl</groupId>
34            <artifactId>jstl</artifactId>
35            <version>1.2</version>
36        </dependency>
37
38        <!-- https://mvnrepository.com/artifact/org.apache.tomcat.embed/tomcat-embed-jasper -->
39        <dependency>
40            <groupId>org.apache.tomcat.embed</groupId>
41            <artifactId>tomcat-embed-jasper</artifactId>
42        </dependency>
43
44        <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
45        <dependency>
46            <groupId>mysql</groupId>
47            <artifactId>mysql-connector-java</artifactId>
48            <!-- <version>8.0.28</version> -->
49        </dependency>
50
51        <dependency>
52            <groupId>org.springframework.boot</groupId>
53            <artifactId>spring-boot-starter-data-jpa</artifactId>
54        </dependency>
55    </dependencies>
56
57    <build>
58        <plugins>
59            <plugin>
60                <groupId>org.springframework.boot</groupId>
61                <artifactId>spring-boot-maven-plugin</artifactId>
62            </plugin>
63        </plugins>
64    </build>
65
66 </project>
67
```

Application.properties

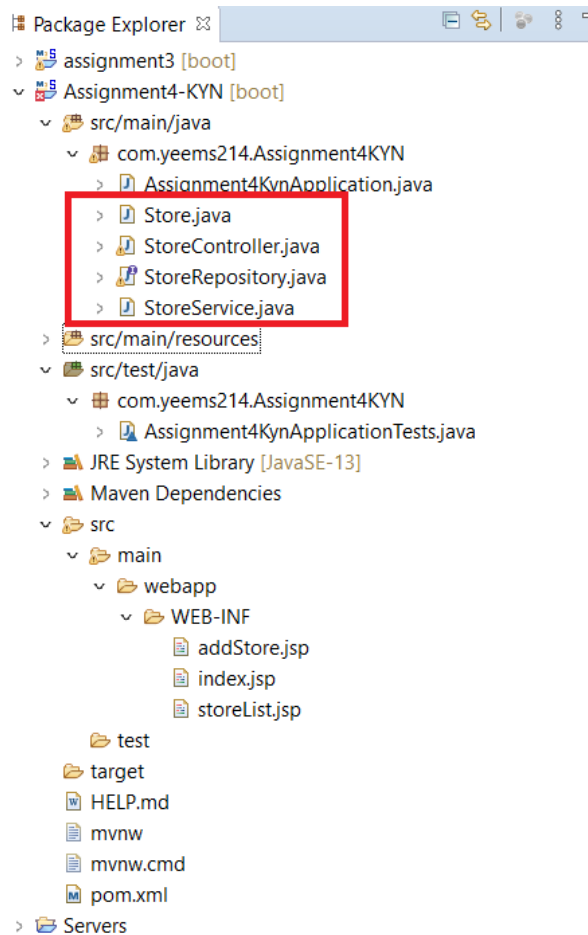
```
1 server.port=9099
2 spring.mvc.view.prefix=/WEB-INF/
3 spring.mvc.view.suffix=.jsp
4
5 ##Database - Connect MySQL Server
6 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
7 spring.datasource.url=jdbc:mysql://localhost:3306/knownyourneighborhood
8 spring.datasource.username=root
9 spring.datasource.password=roelfrancis100
10
11 ##JPA-HIBERNATE
12 spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.MySQL5Dialect
13
14 ## CREATE, UPDATE, CREATE-DROP
15 spring.jpa.hibernate.ddl-auto = update
16 spring.jpa.properties.hibernate.show_sql=true
```

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

For this process, you are required to have a webapp/WEB-INF directory then add the required .jsp files inside the WEB-INF directory.

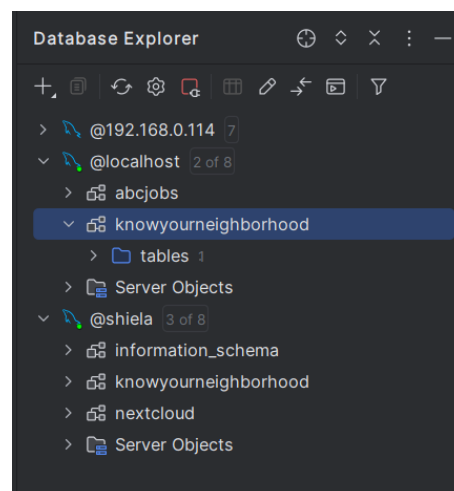
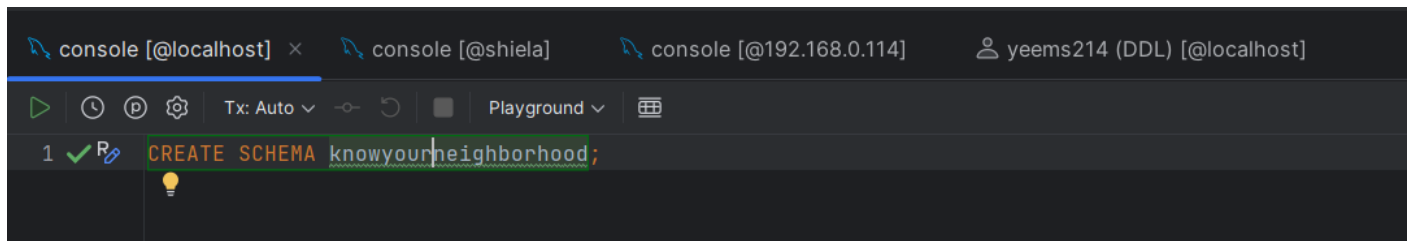


3. Move already developed classes into this project.



4. Create store table in the database.

I created first a database named adp_assignment3 in MySQL Workbench.



Application.properties

```
1 server.port=9099
2 spring.mvc.view.prefix=/WEB-INF/
3 spring.mvc.view.suffix=.jsp
4
5 ##Database - Connect MySQL Server
6 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
7 spring.datasource.url=jdbc:mysql://localhost:3306/knowyourneighborhood
8 spring.datasource.username=root
9 spring.datasource.password=roelfrancis100
10
11 ##JPA-HIBERNATE
12 spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.MySQL5Dialect
13
14 ## CREATE, UPDATE, CREATE-DROP
15 spring.jpa.hibernate.ddl-auto = update
16 spring.jpa.properties.hibernate.show_sql=true
```

5. Annotate all the fields of Store object appropriately.

```
1 package com.yeems214.Assignment4KYN;
2
3 import javax.persistence.Column;
4 import javax.persistence.Entity;
5 import javax.persistence.GeneratedValue;
6 import javax.persistence.GenerationType;
7 import javax.persistence.Id;
8
9 @Entity
10 public class Store {
11     @Id
12     @GeneratedValue(strategy= GenerationType.IDENTITY)
13     @Column(name = "id")
14     Long id;
15     String name;
16     String phone_number;
17     String localities;
18     public Long getId() {
19         return id;
20     }
21     public void setId(Long id) {
22         this.id = id;
23     }
24     /**
25      * @return the name
26      */
27     public String getName() {
28         return name;
29     }
30     /**
31      * @param name the name to set
32      */
33     public void setName(String name) {
34         this.name = name;
35     }
36     /**
37      * @return the phone_number
38      */
39     public String getPhone_number() {
40         return phone_number;
41     }
42     /**
43      * @param phone_number the phone_number to set
44      */
45     public void setPhone_number(String phone_number) {
46         this.phone_number = phone_number;
47     }
48     /**
49      * @return the localities
50      */
51     public String getLocalities() {
52         return localities;
53     }
54 }
```

6. 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.Assignment4KYN;
2
3 import java.util.ArrayList;
4
21
22 @Controller
23 public class StoreController {
24     @Autowired
25     public StoreService s_Service;
26
27     @GetMapping("/home")
28     public String home() {
29         return "index";
30     }
31     @GetMapping(value="/addStore")
32     public String addStoreForm(@ModelAttribute("store") Store store) {
33         System.out.println("Add Store Form");
34         return "addStore";
35     }
36     @PostMapping(value="/saveStore")
37     public String saveStore(@ModelAttribute("store") Store store) {
38         System.out.println("Save Store information");
39         s_Service.saveStore(store);
40         return "redirect:viewStore";
41     }
42     @RequestMapping(value="/viewStore", method=RequestMethod.GET)
43     public ModelAndView viewStore(Model model) {
44         System.out.println("List out all store");
45         List<Store> allStores = s_Service.listAllStore();
46         System.out.println(allStores);
47         return new ModelAndView("storeList", "all_Stores",allStores);
48     }
49     @GetMapping("/update")
50     public String updateStore(@ModelAttribute("store") Store store, @RequestParam long sid, Model model) {
51         Optional<Store> store_info = s_Service.getStoreInfo(sid);
52         System.out.println(store_info);
53         model.addAttribute("id", store_info.get().getId());
54         model.addAttribute("name", store_info.get().getName());
55         model.addAttribute("phone_number",store_info.get().getPhone_number());
56         model.addAttribute("localities",store_info.get().getLocalities());
57         return "addStore";
58     }
59     @GetMapping("delete")
60     public String deleteStore(@RequestParam long sid) {
61         s_Service.deleteStore(sid);
62         return "redirect:viewStore";
63     }
64
65 }
```


b. Enhance Store service and Store Controller objects to support CRUD operations on Store object.

StoreService.java

```
1 package com.yeems214.Assignment4KYN;
2
3 import java.util.List;
4 import java.util.Optional;
5
6 import javax.transaction.Transactional;
7
8 import org.springframework.beans.factory.annotation.Autowired;
9 import org.springframework.stereotype.Service;
10
11 @Service
12 @Transactional
13 public class StoreService {
14     @Autowired
15     private StoreRepository storerepository;
16     public void saveStore(Store store) {
17         storerepository.save(store);
18     }
19     public List<Store> listAllStore(){
20         return storerepository.findAll();
21     }
22     public Optional<Store> getStoreInfo(long sid){
23         Optional<Store> store_info = storerepository.findById(sid);
24         return store_info;
25     }
26     public void deleteStore(long sid) {
27         storerepository.deleteById(sid);
28     }
29 }
30
31
```

c. Add method to existing repository class to perform CRUD operations on Store object.

StoreRepository.java

```
1 package com.yeems214.Assignment4KYN;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4 import org.springframework.stereotype.Repository;
5
6 public interface StoreRepository extends JpaRepository<Store, Long> {
7 }
8
```


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

storeList.jsp

```
1 <!-- page language="java" contentType="text/html" charset="ISO-8859-1"
2     pageEncoding="ISO-8859-1"%>
3 <!-- page isELIgnored="false"%>
4 <!-- taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
5 <!-- DOCTYPE html>
6 <html lang="en">
7
8 <head>
9     <meta charset="utf-8">
10    <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
11    <title>Store List</title>
12
13    <link rel="icon" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/img/kynlogo.png">
14    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KK99+KH94CHFLLE+nY2dcCWGMy91rC0a5gt04mk92Hdvfe+M/SXK30p5ILy+DN+nJO8" crossorigin="anonymous">
15    <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/bootstrap/css/bootstrap.min.css">
16    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Montserrat:400,400i,700,700i,600,600i&display=swap">
17    <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/css/baguetteBox.min.css">
18    <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/css/vanilla-zoom.min.css">
19
20 </head>
21
22 <body>
23 <nav class="navbar navbar-light navbar-expand-lg fixed-top bg-white clean-navbar">
24     <div class="container">
25         <a class="navbar-brand logo" href="home">
26             
27         </a>
28         <button data-bs-toggle="collapse" class="navbar-toggler" data-bs-target="#navcol-1">
29             <span class="visually-hidden">Toggle navigation</span><span class="navbar-toggler-icon"></span>
30         </button>
31         <div class="collapse navbar-collapse" id="navcol-1">
32             <ul class="navbar-nav ms-auto">
33                 <li class="nav-item"><a class="nav-link" href="home">Home</a></li>
34                 <li class="nav-item"><a class="nav-link" href="addStore">Add</a></li>
35                 <li class="nav-item"><a class="nav-link active" href="viewStore">Manage</a></li>
36             </ul>
37         </div>
38     </div>
39 </nav>
40 <main class="page contact-us-page">
41     <section class="clean-block clean-form dark">
42         <div class="container">
43             <div class="h1<h2>heading">
44                 <h2 class="text-info">Store Manager</h2>
45                 <p>Empowering Retail, Managing Success</p>
46             </div>
47             <section class="clean-block features">
48                 <div class="container">
49                     <table class="table table-striped">
50                         <thead class="thead-dark">
51                             <tr>
52                                 <th>Store Name</th>
53                                 <th>Phone Number</th>
54                                 <th>Localities</th>
55                                 <th>Action</th>
56                             </tr>
57                         </thead>
58                         <tbody>
59                             <c:forEach items="{all_stores}" var="u">
60                                 <tr>
61                                     <td>${u.getName()}</td>
62                                     <td>${u.getPhone_number()}</td>
63                                     <td>${u.getLocalities()}</td>
64                                     <td>
65                                         <a class="pr-5" href="addStore">Add</a>
66                                         <a class="pr-5" href="/update?sid=${u.id}">Update</a>
67                                         <a class="pr-5" href="/delete?sid=${u.id}">Delete</a>
68                                     </td>
69                                 </tr>
70                             </c:forEach>
71                         </tbody>
72                     </table>
73                 </div>
74             </section>
75         </div>
76     </section>
77 </main>
78
79 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/bootstrap/js/bootstrap.min.js"></script>
80 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/js/baguetteBox.min.js"></script>
81 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/js/vanilla-zoom.js"></script>
82 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/js/theme.js"></script>
83
84 <!-- Required for Reference -->
85 <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
86     integrity="sha384-J6qa4849b1E2+poT4WnyKhv5Z7F5SrFOiEjwBvKU7imGFAV0wwj1Yf0RSJoZ+n"
87     crossorigin="anonymous"></script>
88 <script
89     src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
90     integrity="sha384-Q6E9RHvbiyZFOft+2mJbHaEWldivI9IOY5n3zV9zzTtmI3UksdQRVvoxMfooAo"
91     crossorigin="anonymous"></script>
92 <script
93     src="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/js/bootstrap.min.js"
94     integrity="sha384-wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYdliqfktj0Uod8GCExl3Og8ifwB6"
95     crossorigin="anonymous"></script>
96
97 </body>
98
99 </html>
```

- 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).

Adding data

HOME ADD MANAGE

Add Store

Expand Your Circle: Connect, Engage, and Thrive Together!

Store Name

Jollibot

Phone Number


+19992221111

Store Location

Talisay City, Cebu

Send

Data entered shown onto the Store Manager

HOME ADD MANAGE

Store Manager

Empowering Retail, Managing Success

Store Name	Phone Number	Localities	Action
Jollibot	+19992221111	Talisay City, Cebu	Add Update Delete

7. Create an HTML page to perform Add Store, Fetch Stores, Update Store, and Delete Store operations from the UI.

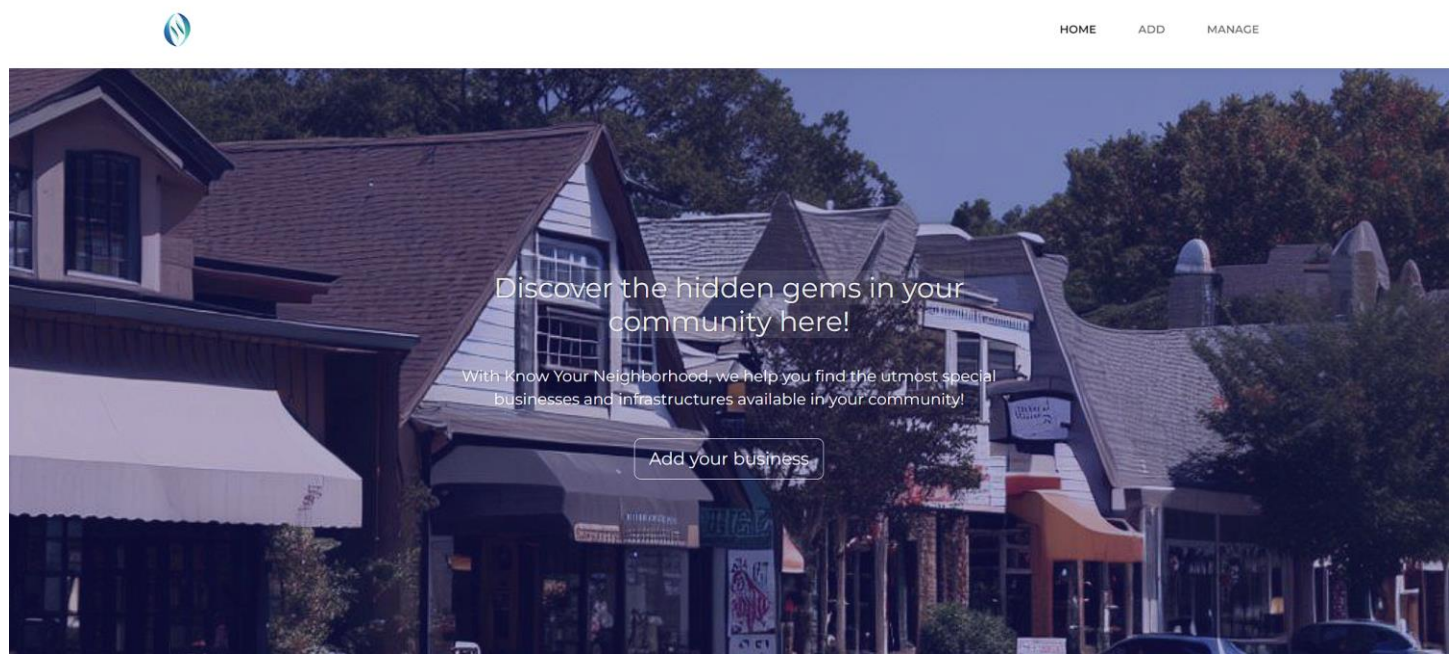
addStore.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <%@ taglib prefix="sf" uri="http://www.springframework.org/tags/form"%>
4 <%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
5 <!DOCTYPE html>
6 <html lang="en">
7
8 <head>
9   <meta charset="utf-8">
10  <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
11  <title>Add Store</title>
12
13  <link rel="icon" href="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/img/kynlogo.png">
14  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KK94CHFLLe+nY2dnCWGMq9lrC0a8gtU4mk92HdvYe+M/ZXH301p5ILy+dN9+nJZ2" crossorigin="anonymous">
15  <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/bootstrap/css/bootstrap.min.css">
16  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Montserrat:400,400i,700,700i,600,600i&display=swap">
17  <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/css/baguetteBox.min.css">
18  <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/css/vanilla-zoom.min.css">
19 </head>
20
21 <body>
22 <nav class="navbar navbar-light navbar-expand-lg fixed-top bg-white clean-navbar">
23   <div class="container">
24     <a class="navbar-brand logo" href="/"></a>
25     
26     </a>
27     <button data-bs-toggle="collapse" class="navbar-toggler" data-bs-target="#navcol-1">
28       <span class="visually-hidden">Toggle navigation</span>
29       <span class="navbar-toggler-icon"></span>
30     </button>
31     <div class="collapse navbar-collapse" id="navcol-1">
32       <ul class="navbar-nav ms-auto">
33         <li class="nav-item"><a class="nav-link" href="/">Home</a></li>
34         <li class="nav-item"><a class="nav-link active" href="addStore">Add</a></li>
35         <li class="nav-item"><a class="nav-link" href="viewStore">Manage</a></li>
36       </ul>
37     </div>
38   </div>
39 </nav>
40 <main class="page contact-us-page">
41   <section class="clean-block clean-form dark">
42     <div class="container">
43       <div class="block-heading">
44         <h2 class="text-info">Add Store</h2>
45         <p>Expand Your Circle: Connect, Engage, and Thrive Together!</p>
46       </div>
47       <!--@Variable id="store" type="text"-->
48       <sf:form class="p-5" d="storeForm" modelAttribute="store" action="saveStore" method="post">
49         <div class="mb-3">
50           <sf:label class="form-label" for="name" path="name">Store Name</sf:label>
51           <sf:input class="form-control" type="text" aria-describedby="storeHelp" name="name"
52             placeholder="Enter store name" path="name" value="{name}"></sf:input>
53         </div>
54         <div class="mb-3">
55           <sf:label class="form-label" for="phone_number" path="phone_number">Phone Number</sf:label>
56           <sf:input class="form-control" type="text" name="phone_number"
57             path="phone_number" placeholder="Enter phone number" value="{phone_number}"></sf:input>
58         </div>
59
60         <div class="mb-3">
61           <sf:label class="form-label" for="localities" path="localities">Store Location</sf:label>
62           <sf:input class="form-control" type="text" name="localities" path="localities" placeholder="Enter store location" value="{localities}" />
63         </div>
64         <div class="mb-3">
65           <sf:input type="hidden" path="id" value="{id}" />
66           <sf:button class="btn btn-primary" type="submit">Send</sf:button>
67         </div>
68       </sf:form>
69     </div>
70 </main>
71 <script src="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/bootstrap/js/bootstrap.min.js"></script>
72 <script src="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/js/baguetteBox.min.js"></script>
73 <script src="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/js/vanilla-zoom.js"></script>
74 <script src="https://gpubv.yeems214.xyz/R120e120p120o120s120i120t120o120r120y/assets/js/theme.js"></script>
75
76 <!-- Required for Reference -->
77 <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
78   integrity="sha384-J6qa4849b1e2+poT4WnyKnv5vZF5SrPo0iEjwBvKU7imGFAV0wjlYfoRJSz8+n"
79   crossorigin="anonymous"></script>
80 <script
81   src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
82   integrity="sha384-Q6E9RHvbIyZFJuf+2mJbHaEWldlV9IYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
83   crossorigin="anonymous"></script>
84 <script
85   src="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/js/bootstrap.min.js"
86   integrity="sha384-wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl3Og8ifwB6"
87   crossorigin="anonymous"></script>
88 </body>
89
90 </html>
```

storeList.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <%@ page isELIgnored="false"%>
4 <%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
5 <!DOCTYPE html>
6 <html lang="en">
7
8 <head>
9   <meta charset="utf-8">
10  <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
11  <title>Store List</title>
12
13  <link rel="icon" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/img/kynlogo.png">
14  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KK94CHFLLe+nY2dmCWGMq91rCGa5gtU4mk92HdvVe+M/SXH301p5Ily+dn9+nJ08" crossorigin="anonymous">
15  <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/bootstrap/css/bootstrap.min.css">
16  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Montserrat:400,400i,700,700i,600,600i&amp;display=swap">
17  <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/css/baguetteBox.min.css">
18  <link rel="stylesheet" href="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/css/vanilla-zoom.min.css">
19
20 </head>
21
22 <body>
23 <nav class="navbar navbar-light navbar-expand-lg fixed-top bg-white clean-navbar">
24   <div class="container">
25     <a class="navbar-brand logo" href="home">
26       
27     </a>
28     <button data-bs-toggle="collapse" class="navbar-toggler" data-bs-target="#navcol-1">
29       <span class="visually-hidden">Toggle navigation</span><span class="navbar-toggler-icon"></span>
30     </button>
31     <div class="collapse navbar-collapse" id="navcol-1">
32       <ul class="navbar-nav ms-auto">
33         <li class="nav-item"><a class="nav-link" href="home">Home</a></li>
34         <li class="nav-item"><a class="nav-link" href="addStore">Add</a></li>
35         <li class="nav-item"><a class="nav-link active" href="viewStore">Manage</a></li>
36       </ul>
37     </div>
38   </div>
39 </nav>
40 <main class="page contact-us-page">
41   <section class="clean-block clean-form dark">
42     <div class="container">
43       <div class="block-heading">
44         <h2 class="text-info">Store Manager</h2>
45         <p>Empowering Retail, Managing Success</p>
46       </div>
47       <section class="clean-block features">
48         <div class="container"> <!-- Reference -->
49           <table class="table table-striped">
50             <thead class="thead-dark">
51               <tr>
52                 <th><Store Name</th>
53                 <th><Phone Number</th>
54                 <th><Localities</th>
55                 <th><Action</th>
56               </tr>
57             </thead>
58             <tbody>
59               <c:forEach items="{all_Stores}" var="u">
60                 <tr>
61                   <td>${u.getName()}</td>
62                   <td>${u.getPhone_number()}</td>
63                   <td>${u.getLocalities()}</td>
64                   <td>
65                     <a class="pr-5" href="addStore">Add</a>
66                     <a class="pr-5" href="/update?sid=${u.id}">Update</a>
67                     <a class="pr-5" href="/delete?sid=${u.id}">Delete</a>
68                   </td>
69                 </tr>
70               </c:forEach>
71             </tbody>
72           </table>
73         </div>
74       </section>
75     </div>
76   </section>
77 </main>
78
79 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/bootstrap/js/bootstrap.min.js"></script>
80 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/js/baguetteBox.min.js"></script>
81 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/js/vanilla-zoom.js"></script>
82 <script src="https://gpubv.yeems214.xyz/R%20e%20p%20o%20s%20i%20t%20o%20r%20y/assets/js/theme.js"></script>
83
84 <!-- Required for Reference -->
85 <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
86   integrity="sha384-J66qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRJo2+n"
87   crossorigin="anonymous"></script>
88 <script
89   src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
90   integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHAEWldlV19IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
91   crossorigin="anonymous"></script>
92 <script
93   src="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/js/bootstrap.min.js"
94   integrity="sha384-wfSDfE50Y2D1uUdj0O3uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl3Og8ifwB6"
95   crossorigin="anonymous"></script>
96
97 </body>
98
99 </html>
```

Result



The image shows the 'Add Store' form on the website. At the top left is the same 'W' logo. To the right is a navigation bar with 'HOME', 'ADD', and 'MANAGE' links. The main heading is 'Add Store' in a blue font. Below the heading is the text 'Expand Your Circle: Connect, Engage, and Thrive Together!'. The form itself is a white box with a blue border. It contains three input fields: 'Store Name' with the placeholder 'Enter store name', 'Phone Number' with the placeholder 'Enter phone number', and 'Store Location' with the placeholder 'Enter store location'. At the bottom of the form is a blue button with the text 'Send' in white.



Store Manager

Empowering Retail, Managing Success

Store Name	Phone Number	Localities	Action
Jollibot	+19992221111	Talisay City, Cebu	Add Update Delete

Output knowyourneighborhood.store				
1 row				
id	localities	name	phone_number	
1	7 Talisay City, Cebu	Jollibot	+19992221111	

For Data Updating:

Before




Store Manager

Empowering Retail, Managing Success

Store Name	Phone Number	Localities	Action
Gaisano Country Mall	+19295127941	Buckingham Palace	Add Update Delete
Jollibot	+19992221111	Talisay City, Cebu	Add Update Delete

Updating Data

HOMEADDMANAGE

Add Store

Expand Your Circle: Connect, Engage, and Thrive Together!


Store Name

Phone Number

Store Location

Send

After

HOMEADDMANAGE

Store Manager

Empowering Retail, Managing Success

Store Name	Phone Number	Localities	Action
SM City Cebu	+15002221493	Mabolo, Cebu City	Add Update Delete
Jollibot	+19992221111	Talisay City, Cebu	Add Update Delete

Output knowyourneighborhood.store x

2 rows

id

localities

name

phone_number

1

8

Mabolo, Cebu City

SM City Cebu

+15002221493

2

7

Talisay City, Cebu

Jollibot

+19992221111