## SOURCE CODE FOR VACCINATION CENTER

```
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.1.0</version>
<relativePath /> <!-- lookup parent from repository -->
</parent>
<groupId>com.example
<artifactId>Vaccination Centre</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>Vaccination Centre</name>
<description>Demo project for Spring Boot</description>
properties>
<java.version>17</java.version>
</properties>
<dependencies>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-thymeleaf</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-devtools</artifactId>
<scope>runtime</scope>
<optional>true</optional>
</dependency>
<dependency>
<groupId>com.mysql</groupId>
<artifactId>mysql-connector-j</artifactId>
<scope>runtime</scope>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-test</artifactId>
```

```
<scope>test</scope>
</dependency>
</dependencies>
<bul>d
<plugins>
<plu>plugin>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-maven-plugin</artifactId>
</plugin>
</plugins>
</build>
</project>
package com.ecommerce;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class VaccinationCentreApplication {
public static void main(String[] args) {
SpringApplication.run(VaccinationCentreApplication.class, args);
}
package com.ecommerce.controller;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
```

```
import com.ecommerce.entity.Citizen;
import com.ecommerce.entity.VaccineCenter;
import com.ecommerce.service.CitizenService;
import com.ecommerce.service.VaccineCenterService;
@Controller
@RequestMapping("/citizens")
public class CitizenController {
private final CitizenService citizenService;
private final VaccineCenterService vaccineCenterService;
@Autowired
public CitizenController(CitizenService citizenService, VaccineCenterService
vaccineCenterService) {
this.citizenService = citizenService;
this.vaccineCenterService = vaccineCenterService;
@GetMapping
public String getAllCitizens(Model model) {
List<Citizen> citizens = citizenService.getAllCitizens();
model.addAttribute("citizens", citizens);
return "citizen-details";
}
@GetMapping("/{id}")
public String viewCitizen(@PathVariable("id") Long id, Model model) {
Citizen citizen = citizenService.getCitizenById(id);
if (citizen != null) {
model.addAttribute("citizen", citizen);
return "view-citizen";
} else {
// Citizen not found, handle the error scenario
return "redirect:/citizens";
}
}
@GetMapping("/add")
public String addCitizen(Model model) {
List<VaccineCenter> vaccineCenters =
vaccineCenterService.getAllVaccineCenters();
model.addAttribute("vaccineCenters", vaccineCenters);
model.addAttribute("citizen", new Citizen());
return "add-citizen";
}
@PostMapping("/add")
public String processAddCitizenForm(@ModelAttribute("citizen") Citizen
citizen,
```

```
@RequestParam("vaccineCenterId") Long vaccineCenterId) {
VaccineCenter vaccineCenter =
vaccineCenterService.getVaccineCenterBvId(vaccineCenterId);
citizen.setVaccinationCenter(vaccineCenter);
citizenService.addCitizen(citizen);
return "redirect:/citizens";
@GetMapping("/{id}/edit")
public String showEditCitizenForm(@PathVariable("id") Long id, Model model)
Citizen citizen = citizenService.getCitizenById(id);
if (citizen != null) {
List<VaccineCenter> vaccineCenters =
vaccineCenterService.getAllVaccineCenters();
model.addAttribute("citizen", citizen);
model.addAttribute("vaccineCenters", vaccineCenters);
return "edit-citizen";
} else {
// Citizen not found, handle the error scenario
return "redirect:/citizens";
}
@PostMapping("/{id}/edit")
public String updateCitizen(@PathVariable("id") Long id,
@ModelAttribute("citizen") Citizen updatedCitizen,
@RequestParam("vaccineCenterId") Long vaccineCenterId) {
VaccineCenter vaccineCenter =
vaccineCenterService.getVaccineCenterBvId(vaccineCenterId);
Citizen citizen = citizenService.getCitizenById(id);
if (citizen != null && vaccineCenter != null) {
citizen.setName(updatedCitizen.getName());
citizen.setCity(updatedCitizen.getCity());
citizen.setNoOfDoses(updatedCitizen.getNoOfDoses());
citizen.setVaccinationStatus(updatedCitizen.getVaccinationStatus());
citizen.setVaccinationCenter(vaccineCenter);
// Update other fields as needed
citizenService.updateCitizen(citizen);
return "redirect:/citizens";
@GetMapping("/{id}/delete")
public String deleteCitizen(@PathVariable("id") Long id) {
citizenService.deleteCitizen(id);
return "redirect:/citizens";
```

```
package com.ecommerce.controller;
import org.springframework.http.ResponseEntity;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import com.ecommerce.entity.User;
import com.ecommerce.repository.UserRepository;
import com.ecommerce.service.UserService;
@Controller
@RequestMapping("/")
public class UserController {
private final UserService userService;
private final UserRepository userRepository;
public UserController(UserService userService, UserRepository userRepository)
this.userService = userService;
this.userRepository = userRepository;
@GetMapping
public String showRLoginPage() {
return "redirect:/login.html";
}
@PostMapping("/login")
public String processLogin(@RequestParam("username") String username,
@RequestParam("password") String password) {
User user = userRepository.findByUsername(username);
if (user != null && user.getPassword().equals(password)) {
return "redirect:/vaccine-centers";
} else {
return "redirect:/errorpage.html";
}
}
@GetMapping("/register")
```

```
public String showRegisterPage() {
return "redirect:/register.html";
@PostMapping("/register")
public ResponseEntity<String> registerUser(@RequestParam("username")
String username,
@RequestParam("email") String email, @RequestParam("password") String
password) {
User user = new User(username, email, password);
userService.registerUser(user);
return ResponseEntity.ok("User registered successfully");
}
package com.ecommerce.controller;
import java.util.List;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import com.ecommerce.entity.Citizen;
import com.ecommerce.entity.VaccineCenter;
import com.ecommerce.service.CitizenService;
import com.ecommerce.service.VaccineCenterService;
@Controller
@RequestMapping("/vaccine-centers")
public class VaccineCenterController {
private final VaccineCenterService vaccineCenterService;
private final CitizenService citizenService;
public VaccineCenterController(VaccineCenterService vaccineCenterService,
CitizenService citizenService) {
this.vaccineCenterService = vaccineCenterService;
this.citizenService = citizenService;
@GetMapping
```

```
public String getAllVaccineCenters(Model model) {
List<VaccineCenter> vaccineCenters =
vaccineCenterService.getAllVaccineCenters();
model.addAttribute("vaccineCenters", vaccineCenters);
return "vaccine-center-details";
@GetMapping("/add")
public String showAddVaccineCenterForm(Model model) {
model.addAttribute("vaccineCenter", new VaccineCenter());
return "add-vaccine-center";
}
@PostMapping("/add")
public String addVaccineCenter(@ModelAttribute("vaccineCenter")
VaccineCenter vaccineCenter) {
vaccineCenterService.addVaccineCenter(vaccineCenter);
return "redirect:/vaccine-centers";
@GetMapping("/{id}")
public String viewVaccineCenter(@PathVariable("id") Long id, Model model) {
VaccineCenter vaccineCenter = vaccineCenterService.getVaccineCenterById(id);
List<Citizen> citizens =
citizenService.getCitizensByVaccinationCenter(vaccineCenter);
model.addAttribute("vaccineCenter", vaccineCenter);
model.addAttribute("citizens", citizens);
return "vaccine-center-view";
@GetMapping("/{id}/edit")
public String showEditVaccineCenterForm(@PathVariable("id") Long id,
Model model) {
VaccineCenter vaccineCenter = vaccineCenterService.getVaccineCenterById(id);
if (vaccineCenter != null) {
model.addAttribute("vaccineCenter", vaccineCenter);
return "edit-vaccine-center";
} else {
return "redirect:/vaccine-centers";
@PostMapping("/{id}/edit")
public String updateVaccineCenter(@PathVariable("id") Long id,
@ModelAttribute("vaccineCenter") VaccineCenter updatedVaccineCenter) {
VaccineCenter vaccineCenter = vaccineCenterService.getVaccineCenterById(id);
if (vaccineCenter != null) {
vaccineCenter.setCenter(updatedVaccineCenter.getCenter());
vaccineCenter.setCity(updatedVaccineCenter.getCity());
```

```
vaccineCenterService.updateVaccineCenter(vaccineCenter);
return "redirect:/vaccine-centers";
@GetMapping("/{id}/delete")
public String deleteVaccineCenter(@PathVariable("id") Long id) {
vaccineCenterService.deleteVaccineCenter(id);
return "redirect:/vaccine-centers";
}
package com.ecommerce.entity;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.FetchType;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.JoinColumn;
import jakarta.persistence.ManyToOne;
import jakarta.persistence.Table;
@Entity
@Table(name = "citizens")
public class Citizen {
@Id
@GeneratedValue(strategy = GenerationType.IDENTITY)
private Long id;
@Column(name = "name")
private String name;
@Column(name = "city")
private String city;
@Column(name = "no of doses")
private int noOfDoses;
@Column(name = "vaccination status")
private String vaccinationStatus;
(a)ManyToOne(fetch = FetchType.LAZY)
@JoinColumn(name = "vaccination center")
private VaccineCenter vaccinationCenter;
// Constructors, getters, setters, and other properties
public Long getId() {
return id;
public void setId(Long id) {
this.id = id;
```

```
}
public String getName() {
return name;
}
public void setName(String name) {
this.name = name;
public String getCity() {
return city;
public void setCity(String city) {
this.city = city;
public int getNoOfDoses() {
return noOfDoses;
public void setNoOfDoses(int noOfDoses) {
this.noOfDoses = noOfDoses;
public String getVaccinationStatus() {
return vaccinationStatus;
public void setVaccinationStatus(String vaccinationStatus) {
this.vaccinationStatus = vaccinationStatus;
public VaccineCenter getVaccinationCenter() {
return vaccinationCenter;
public void setVaccinationCenter(VaccineCenter vaccinationCenter) {
this.vaccinationCenter = vaccinationCenter;
}
package com.ecommerce.entity;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.Table;
@Entity
@Table(name = "users")
public class User {
@Id
@GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
private Long id;
@Column(nullable = false, unique = true)
private String username;
@Column(nullable = false, unique = true)
private String email;
@Column(nullable = false)
private String password;
public User() {
public User(String username, String email, String password) {
this.username = username;
this.password = password;
this.email = email;
public Long getId() {
return id;
}
public void setId(Long id) {
this.id = id;
public String getUsername() {
return username;
public void setUsername(String username) {
this.username = username;
public String getEmail() {
return email;
public void setEmail(String email) {
this.email = email;
public String getPassword() {
return password;
public void setPassword(String password) {
this.password = password;
}
package com.ecommerce.entity;
import jakarta.persistence.Column;
```

import jakarta.persistence.Entity;

```
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.Table;
@Entity
@Table(name = "vaccine centers")
public class VaccineCenter {
@GeneratedValue(strategy = GenerationType.IDENTITY)
private Long id;
@Column(name = "center")
private String center;
@Column(name = "city")
private String city;
public VaccineCenter() {
// Default constructor required by JPA
public VaccineCenter(String center, String city) {
this.center = center;
this.city = city;
public Long getId() {
return id;
public void setId(Long id) {
this.id = id;
public String getCenter() {
return center;
}
public void setCenter(String center) {
this.center = center;
public String getCity() {
return city;
public void setCity(String city) {
this.city = city;
}
}
```

package com.ecommerce.repository;

```
import java.util.List;
import org.springframework.data.jpa.repository.JpaRepository;
import com.ecommerce.entity.Citizen;
import com.ecommerce.entity.VaccineCenter;
public interface CitizenRepository extends JpaRepository<Citizen, Long> {
List<Citizen> findByVaccinationCenter(VaccineCenter vaccinationCenter);
package com.ecommerce.repository;
import org.springframework.data.jpa.repository.JpaRepository;
import com.ecommerce.entity.User;
public interface UserRepository extends JpaRepository<User, Long> {
User findByUsername(String username);
}
package com.ecommerce.repository;
import org.springframework.data.jpa.repository.JpaRepository;
import com.ecommerce.entity.VaccineCenter;
public interface VaccineCenterRepository extends
JpaRepository<VaccineCenter, Long> {
// Add custom query methods if needed
package com.ecommerce.service;
import java.util.List;
import com.ecommerce.entity.Citizen;
import com.ecommerce.entity.VaccineCenter;
public interface CitizenService {
void addCitizen(Citizen citizen);
void updateCitizen(Citizen citizen);
void deleteCitizen(Long id);
```

```
Citizen getCitizenById(Long id);
List<Citizen> getAllCitizens();
List<Citizen> getCitizensByVaccinationCenter(VaccineCenter vaccineCenter);
package com.ecommerce.service;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.ecommerce.entity.Citizen;
import com.ecommerce.entity.VaccineCenter;
import com.ecommerce.repository.CitizenRepository;
@Service
public class CitizenServiceImpl implements CitizenService {
       @Autowired
       private CitizenRepository citizenRepository;
       @Override
       public void addCitizen(Citizen citizen) {
              citizenRepository.save(citizen);
       @Override
       public void updateCitizen(Citizen citizen) {
              citizenRepository.save(citizen);
       @Override
       public void deleteCitizen(Long id) {
              citizenRepository.deleteById(id);
       @Override
       public Citizen getCitizenById(Long id) {
              return citizenRepository.findById(id).orElseThrow(() -> new
NotFoundException("Citizen not found"));
       @Override
       public List<Citizen> getAllCitizens() {
              return citizenRepository.findAll();
```

```
}
       @Override
       public List<Citizen> getCitizensByVaccinationCenter(VaccineCenter
vaccineCenter) {
              return citizenRepository.findByVaccinationCenter(vaccineCenter);
       public class NotFoundException extends RuntimeException {
              public NotFoundException(String message) {
                     super(message);
       }
}
package com.ecommerce.service;
import org.springframework.stereotype.Service;
import com.ecommerce.entity.User;
import com.ecommerce.repository.UserRepository;
@Service
public class UserService {
private final UserRepository userRepository;
public UserService(UserRepository userRepository) {
this.userRepository = userRepository;
public void registerUser(User user) {
userRepository.save(user);
}
}
package com.ecommerce.service;
import java.util.List;
import com.ecommerce.entity.VaccineCenter;
public interface VaccineCenterService {
VaccineCenter addVaccineCenter(VaccineCenter vaccineCenter);
void updateVaccineCenter(VaccineCenter updatedVaccineCenter);
```

```
void deleteVaccineCenter(Long id);
VaccineCenter getVaccineCenterById(Long id);
List<VaccineCenter> getAllVaccineCenters();
package com.ecommerce.service;
import java.util.List;
import org.springframework.stereotype.Service;
import com.ecommerce.entity.VaccineCenter;
import com.ecommerce.repository.VaccineCenterRepository;
@Service
public class VaccineCenterServiceImpl implements VaccineCenterService {
private final VaccineCenterRepository vaccineCenterRepository;
public VaccineCenterServiceImpl(VaccineCenterRepository vaccineCenterRepository)
this.vaccineCenterRepository = vaccineCenterRepository;
@Override
public VaccineCenter addVaccineCenter(VaccineCenter vaccineCenter) {
return vaccineCenterRepository.save(vaccineCenter);
}
@Override
public void updateVaccineCenter(VaccineCenter updatedVaccineCenter) {
VaccineCenter existingCenter =
vaccineCenterRepository.findById(updatedVaccineCenter.getId())
.orElseThrow(() -> new NotFoundException("Vaccine center not found"));
existingCenter.setCenter(updatedVaccineCenter.getCenter());
existingCenter.setCity(updatedVaccineCenter.getCity());
vaccineCenterRepository.save(existingCenter);
}
@Override
public void deleteVaccineCenter(Long id) {
VaccineCenter existingCenter = vaccineCenterRepository.findById(id)
.orElseThrow(() -> new NotFoundException("Vaccine center not found"));
vaccineCenterRepository.delete(existingCenter);
```

```
@Override
public VaccineCenter getVaccineCenterById(Long id) {
return vaccineCenterRepository.findById(id)
.orElseThrow(() -> new NotFoundException("Vaccine center not found"));
}

@Override
public List<VaccineCenter> getAllVaccineCenters() {
return vaccineCenterRepository.findAll();
}

public class NotFoundException extends RuntimeException {
public NotFoundException(String message) {
super(message);
}
}
}
```

## 

```
<!DOCTYPE html>
<html>
<head>
<title>Login - Vaccination Project</title>
</head>
<body>
<div class="container" style="padding-left: 40%;">
<h1 class="mt-4">ADMIN-LOGIN</h1>
 form action="/login" method="POST">
 <div class="form-group">
 <label for="username">Username:</label>
 input type="text" class="form-control" id="username" name="username" required>
 </div>
 div class="form-group">
 slabel for="password">Password:</label>
 input type="password" class="form-control" id="password" name="password"
required>
</div>
 Sbutton type="submit" class="btn btn-primary">Login</button>
 </form>
class="mt-3">Don't have an account? <a href="/register">Register here</a>.
 </div>
 <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
 script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@1.16.1/dist/umd/popper.min.js"></
script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
</body>
</html>
 <!DOCTYPE html>
<html>
<head>
<title>Register - Vaccination Project</title>
</head>
<body>
```

```
<div class="container" style="padding-left: 40%;">
<h1 class="mt-4">Register</h1>
form action="/register" method="POST">
<div class="form-group">
<label for="username">Username:</label>
 input type="text" class="form-control" id="username" name="username" required>
\sqrt{\text{div}}
<div class="form-group">
<label for="email">Email:</label>
 input type="email" class="form-control" id="email" name="email" required>
</div>
<div class="form-group">
<label for="password">Password:</label>
input type="password" class="form-control" id="password" name="password"
required>
</div>
button type="submit" class="btn btn-primary">Register</button>
</form>
 p class="mt-3">Already have an account? <a href="/">Login here</a>.
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@1.16.1/dist/umd/popper.min.js"><
script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
</body>
</html>
<!DOCTYPE html>
<html>
<head>
<title>Error - Vaccination Project</title>
</head>
<br/>body>
<div class="container">
<h1 class="mt-4">Error</h1>
<div class="alert alert-danger" role="alert">
Invalid username or password. Please try again or register.
<a href="/register" class="btn btn-primary">Register</a>
<a href="/" class="btn btn-secondary">Try Again</a>
</div>
```

```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script</pre>
</body>
</html>
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
<title>Add Citizen</title>
</head>
<body>
div class="container" style="padding-left: 10%;">
<h1 class="mt-4">Add Citizen</h1>
form action="/citizens/add" method="POST">
div class="form-group">
<label for="name">Name:</label>
input type="text" class="form-control" id="name" name="name" required>
</div>
div class="form-group">
<label for="city">City:</label>
input type="text" class="form-control" id="city" name="city" required>
</div>
<div class="form-group">
th><label for="noOfDoses">No. of Doses:</label>
<select class="form-control" id="noOfDoses" name="noOfDoses" required>
coption value="0">0</option>
Soption value="1">1</option>
<option value="2">2</option>
</select>
</div>
<div class="form-group">
<label for="vaccinationStatus">Vaccination Status:</label>
input type="text" class="form-control" id="vaccinationStatus"
name="vaccinationStatus" required
readonly>
</div>
<script>
const noOfDosesSelect = document.getElementById('noOfDoses');
```

```
const vaccinationStatusInput = document.getElementById('vaccinationStatus');
noOfDosesSelect.addEventListener('change', function () {
const selectedDoses = parseInt(noOfDosesSelect.value);
if (selectedDoses === 0) {
vaccinationStatusInput.value = 'Not Vaccinated';
} else if (selectedDoses === 1) {
vaccinationStatusInput.value = 'One Vaccinated';
} else if (selectedDoses === 2) {
vaccinationStatusInput.value = 'Fully Vaccinated';
});
</script>
<div class="form-group">
 th> label for="vaccineCenterId"> Vaccine Center:</label>
 select class="form-control" id="vaccineCenterId" name="vaccineCenterId"
required>
<!-- Populate the options with available Vaccine Centers -->
 coption th:each="vaccineCenter: ${vaccineCenters}"
th:value="${vaccineCenter.id}"
th:text="${vaccineCenter.center}"></option>
</select>
</div>
 <button type="submit" class="btn btn-primary">Add Citizen</button>
 </form>
<a href="/citizens" class="btn btn-secondary">Back</a>
</div>
</body>
</html>
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Add Vaccination Center</title>
</head>
<body>
 div class="container" style="padding-left: 40%;">
<a href="ht-4">Add Vaccination Center</h1></a>
 form th:action="@{/vaccine-centers/add}" method="POST">
<div class="form-group">
<label for="center">Center:</label>
<input type="text" class="form-control" id="center" name="center" required>
```

```
</div>
div class="form-group">
<label for="city">City:</label>
input type="text" class="form-control" id="city" name="city" required>
\sqrt{div}
Submit class="btn btn-primary">Submit</button>
</form>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
</body>
</html>
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Citizen Details</title>
</head>
<body>
<div class="container">
<h1 class="mt-4">Citizen Details</h1>
a href="/citizens/add" class="btn btn-success">Add Citizen</a>
a href="/vaccine-centers" class="btn btn-secondary">Back to Home</a><br>
<thead>
<th>ID</th>
Name
City
No. of Doses
Vaccination Status
Vaccination Center
Actions
</thead>
```

```
<a th:href="@{/citizens/{id}(id=${citizen.id})}" class="btn btn-primary">View</a>
 <a th:href="@{/citizens/{id}/edit(id=${citizen.id})}" class="btn btn-</pre>
secondary">Edit</a>
<a th:href="@{/citizens/{id}/delete(id=${citizen.id})}" class="btn btn-</pre>
danger">Delete</a>
<h4 style="text-align:left;"><strong>Total </strong><strong</pre>
th:text="${#lists.size(citizens)}
"></strong><strong> Citizens found</strong></h4>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
 script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
</html>
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Edit Citizen</title>
</head>
<body>
 <div class="container" style="padding-left:40%;">
 <h1 class="mt-4">Edit Citizen</h1>
 form th:action="@{/citizens/{id}/edit(id=${citizen.id})}" method="POST">
<div class="form-group">
 label for="name">Name:</label>
 input type="text" class="form-control" id="name" name="name"
th:value="${citizen.name}" required>
</div>
<div class="form-group">
 <label for="city">City:</label>
 input type="text" class="form-control" id="city" name="city"
th:value="${citizen.city}" required>
</div>
 <div class="form-group">
 (label for="noOfDoses">No. of Doses:</label>
 select class="form-control" id="noOfDoses" name="noOfDoses" required>
 <option value="0" th:selected="${citizen.noOfDoses == 0}">0</option>
 <option value="1" th:selected="${citizen.noOfDoses == 1}">1</option>
<option value="2" th:selected="${citizen.noOfDoses == 2}">2</option>
```

```
</div>
<div class="form-group">
<label for="vaccinationStatus">Vaccination Status:</label>
input type="text" class="form-control" id="vaccinationStatus"
name="vaccinationStatus"
th:value="${citizen.vaccinationStatus}" required readonly>
</div>
<div class="form-group">
<label for="vaccineCenterId">Vaccine Center:</label>
select class="form-control" id="vaccineCenterId" name="vaccineCenterId"
required>
<option th:each="vaccineCenter: ${vaccineCenters}"</pre>
th:value="${vaccineCenter.id}"
th:text="${vaccineCenter.center}" th:selected="${vaccineCenter.id ==
citizen.vaccinationCenter.id}"></option>
</select>
</div>
 button type="submit" class="btn btn-primary">Update Citizen</button>
 a href="/citizens" class="btn btn-secondary">Back</a>
</form>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
 script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
<script>
const noOfDosesSelect = document.getElementById('noOfDoses');
const vaccinationStatusInput = document.getElementById('vaccinationStatus');
noOfDosesSelect.addEventListener('change', function () {
const selectedDoses = parseInt(noOfDosesSelect.value);
if (selectedDoses === 0) {
vaccinationStatusInput.value = 'Not Vaccinated';
} else if (selectedDoses === 1) {
vaccinationStatusInput.value = 'One Vaccinated';
} else if (selectedDoses === 2) {
vaccinationStatusInput.value = 'Fully Vaccinated';
});
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
<title>Edit Vaccine Center</title>
```

```
</head>
 <body>
 <div class="container" style="padding-left: 40%;">
  <a href="https://www.states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.com/html/states.co
  form th:action="@{/vaccine-centers/{id}/edit(id=${vaccineCenter.id})}"
method="POST">
 <div class="form-group">
 <a>label for="center">Center:</label></a>
  input type="text" class="form-control" id="center"
th:field="${vaccineCenter.center}" required>
 </div>
 <div class="form-group">
 <label for="city">City:</label>
  input type="text" class="form-control" id="city" th:field="${vaccineCenter.city}"
required>
 </div>
  Sbutton type="submit" class="btn btn-primary">Update Vaccine Center</button>
 </form>
  </div>
  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
  script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
 </body>
  <!DOCTYPE html>
  <a href="http://www.thymeleaf.org">
  head>
  <title>Vaccination Center Details</title>
 <style>
 </style>
  <body>
  <div class="container">
  <a href="h1 class="mt-4">Welcome to Vaccination Center</h1></a>
  stable border="2" style="width: 100%;">
  <a href="/citizens" style="color: #007bff;">Citizens</a>
  th style="height: 10%;"><a href="/" style="color: #dc3545;">Logout</a>
  th style="height: 10%;"><a th:href="@{/vaccine-centers/add}" class="btn btn-
primary mb-4">Add Vaccination
Center</a>
 Welcome ADMIN
 <hr>>
<h2 class="mt-4">Vaccination Center Details</h2>
```

```
<thead>
ID
Center
City
Actions
</thead>
!-- Loop through the vaccination centers and display their details -->
<a th:href="@{/vaccine-centers/{id}(id=${vaccineCenter.id})}">View</a>
<a th:href="@{/vaccine-centers/{id}/edit(id=${vaccineCenter.id})}">Edit</a>
<a th:href="@{/vaccine-centers/{id}/delete(id=${vaccineCenter.id})}">Delete</a>
<h3 style="text-align:left;"><strong>Total </strong><strong
th:text="${#lists.size(vaccineCenters)} "></strong><strong> Vaccination Center
found</strong></h3>
</div>
</body>
</html>
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Vaccination Center Details</title>
```

</head>

```
<body>
<div class="container">
h1 class="mt-4">Vaccination Center Details</h1>
<hr>>
<h2 class="mt-4">Vaccination Center</h2>
<thead>
ID
Center
City
</thead>
<h2 class="mt-4">Associated Citizens</h2>
<thead>
ID
Name
City
No. of Doses
Vaccination Status
</thead>
<a href="/vaccine-centers" class="btn btn-secondary">Back to Vaccination</a>
Centers</a>
</div>
</body>
</html>
```

```
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
<title>View Citizen</title>
</head>
<div class="container">
<h1 class="mt-4">Citizen Details</h1>
<div class="card">
div class="card-body">
5 class="card-title">Name: <span th:text="${citizen.name}"></span></h5
<a href="https://www.city.com/subtitle-mb-2-text-muted">City: <span</a>
th:text="${citizen.city}"></span></h6>
No. of Doses: <span</pre>
th:text="${citizen.noOfDoses}"></span>
Vaccination Status: <span</pre>
th:text="${citizen.vaccinationStatus}"></span>
class="card-text">Vaccine Center: <span</pre>
th:text="${citizen.vaccinationCenter.center}"></span>
</div>
<a href="/citizens" class="btn btn-primary mt-4">Back</a>
</div>
</body>
</html>
```

## APPLICATION.PROPERITES

spring.datasource.url=jdbc:mysql://localhost:3306/test spring.datasource.username=root spring.datasource.password=root

## spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

spring.jpa.show-sql=true spring.jpa.hibernate.ddl-auto=update server.port=8080