# **Phase 3 Assesment Project**

# **Vaccination center**

### **Source Code:**

```
com.ecommerce:
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);
}
}
com.ecommerce.comtroller
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.getVaccineCenterById(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";
 // 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.getVaccineCenterById(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";
}
}
com.ecommerce.entity
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.ld;
import jakarta.persistence.JoinColumn;
import jakarta.persistence.ManyToOne;
import jakarta.persistence.Table;
@Entity
@Table(name = "citizens")
public class Citizen {
@ld
@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;
@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.ld;
import jakarta.persistence.Table;
@Entity
@Table(name = "users")
public class User {
@ld
@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.ld;
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;
}
com.ecommerce.repository:
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
com.ecommerce.service
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);
}
}
HTML CODE:
error page
<!DOCTYPE html>
<html>
<head>
```

```
<title>Error - Vaccination Project</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>
<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.
</div>
<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>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
></script>
</body>
</html>
login page
<!DOCTYPE html>
<html>
<head>
<title>Login - Vaccination Project</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>
<body>
<div class="container">
<h1 class="mt-4">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">
<label for="password">Password:</label>
<input type="password" class="form-control" id="password"
name="password" required>
</div>
<button type="submit" class="btn btn-primary">Login</button>
</form>
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>
src="https://cdn.jsdelivr.net/npm/@popperjs/core@1.16.1/dist/umd/popper.
min.js"></script>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
```

```
></script>
</body>
</html>
Register page:
<!DOCTYPE html>
<html>
<head>
<title>Register - Vaccination Project</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>
<body>
<div class="container">
<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>
</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>
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>
Add Citizen Details:
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Add Citizen</title>
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
```

</head>

```
<body>
<div class="container">
<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">
<label for="noOfDoses">No. of Doses:</label>
<select class="form-control" id="noOfDoses" name="noOfDoses" required>
<option value="0">0</option>
<option 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">
<label for="vaccineCenterId">Vaccine Center:</label>
<select class="form-control" id="vaccineCenterId" name="vaccineCenterId"</pre>
required>
<!-- Populate the options with available Vaccine Centers -->
<option th:each="vaccineCenter: ${vaccineCenters}"</pre>
th:value="${vaccineCenter.id}"
th:text="${vaccineCenter.center}"></option>
</select>
</div>
<button type="submit" class="btn btn-primary">Add 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>
</body>
</html>
Add Vaccine Center
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Add Vaccination Center</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
</head>
<body>
<div class="container">
<h1 class="mt-4">Add Vaccination Center</h1>
<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>
</div>
<button type="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>
Citizen Details:
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Citizen Details</title>
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</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><br>
```

```
<thead>
ID
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
secondary">Edit</a>
<a th:href="@{/citizens/{id}/delete(id=${citizen.id})}" class="btn btn
danger">Delete</a>
<h6 style="text-align:left;"><strong>Total </strong><strong
th:text="${#lists.size(citizens)}
"></strong><strong> Citizens found</strong></h6>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
></script>
</body>
</html>
Edit Citizen:
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Edit Citizen</title>
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>
<body>
<div class="container">
<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="${citizen.noOfDoses == 2}">2</option>
</select>
</div>
<div class="form-group">
<label for="vaccinationStatus">Vaccination Status:</label>
<input type="text" class="form-control" id="vaccinationStatus"
name="vaccinationStatus"
th:value="${citizen.vaccinationStatus}" required readonly>
</div>
<div class="form-group">
<label for="vaccineCenterId">Vaccine Center:</label>
<select class="form-control" id="vaccineCenterId" name="vaccineCenterId"</pre>
required>
<!-- Populate the options with available Vaccine Centers -->
<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>
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';
```

```
}
});
</script>
</body>
</html>
Edit Vaccine Center:
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Edit Vaccine Center</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>
<body>
<div class="container">
<h1 class="mt-4">Edit Vaccine Center</h1>
<form th:action="@{/vaccine-centers/{id}/edit(id=${vaccineCenter.id})}"
method="POST">
<div class="form-group">
<label for="center">Center:</label>
<input type="text" class="form-control" id="center"
th:field="${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>
<!-- Add other fields as needed -->
<button 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>
</html>
Vaccine Center Details:
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>Vaccination Center Details</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
<style>
/* Styles here */
</style>
```

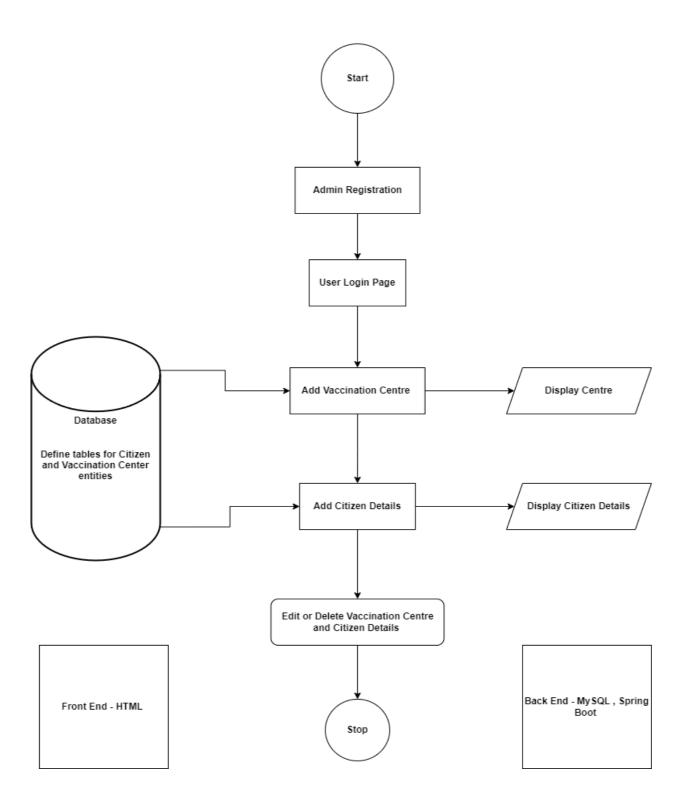
```
</head>
<body>
<div class="container">
<h1 class="mt-4">Welcome to Vaccination Center</h1>
<a href="/citizens" style="color: #007bff;">Go to Citizen Details</a>
<a href="/" style="color: #dc3545;">Logout</a>
<hr>
<h2 class="mt-4">Vaccination Center Details</h2>
<a th:href="@{/vaccine-centers/add}" class="btn btn-primary mb-4">Add
Vaccination Center</a>
<thead>
ID
Center
City
Actions
</thead>
<!-- Loop through the vaccination centers and display their details -->
<a th:href="@{/vaccine-centers/{id}(id=${vaccineCenter.id})}" class="btn btn
primary">View</a>
<a th:href="@{/vaccine-centers/{id}/edit(id=${vaccineCenter.id})}" class="btn
btn
secondary">Edit</a>
<a th:href="@{/vaccine-centers/{id}/delete(id=${vaccineCenter.id})}"
class="btn btn
danger">Delete</a>
<h6 style="text-align:left;"><strong>Total </strong><strong
th:text="${#lists.size(vaccineCenters)} "></strong> Vaccination Center
found</strong></h6>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
></script>
</body>
</html>
View Vaccine Center:
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
```

```
<title>Vaccination Center Details</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</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
Centers</a>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
></script>
</body>
</html>
```

```
View Citizen:
```

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<title>View Citizen</title>
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>
<body>
<div class="container">
<h1 class="mt-4">Citizen Details</h1>
<div class="card">
<div class="card-body">
<h5 class="card-title">Name: <span th:text="${citizen.name}"></span></h5>
<h6 class="card-subtitle mb-2 text-muted">City: <span
th:text="${citizen.city}"></span></h6>
No. of Doses: <span</pre>
th:text="${citizen.noOfDoses}"></span>
Vaccination Status: <span</pre>
th:text="${citizen.vaccinationStatus}"></span>
Vaccine Center: <span</pre>
th:text="${citizen.vaccinationCenter.center}"></span>
</div>
</div>
<a href="/citizens" class="btn btn-primary mt-4">Back</a>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
></script>
</body>
</html>
Application Properties:
spring.datasource.url=jdbc:mysql://localhost:3306/vaccination?useSSL=false
&serverTimezone=UTC
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=3008
```

# FlowChart:



# **Project Duration:**

## **Sprint 1**

- Creating a main class
- Developing a frontend using HTML
- Developing a Backend using spring Boot
- Creating a table using MySQL Database
- Developing a project according to the question

## **Sprint 2**

- Finding the error parts
- Correcting the error parts
- Debugging the code
- Snapshot the outputs

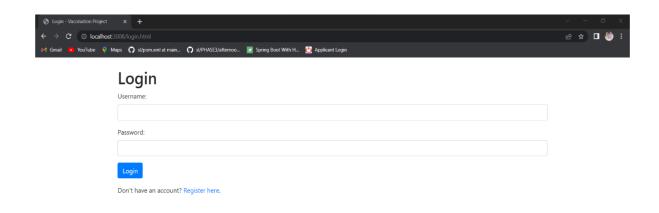
# **Phase 3 Assessment Project**

# **Vaccination Center**

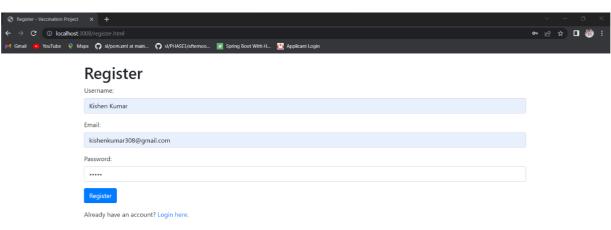
# **Source Code:**

### **OUTPUT:**

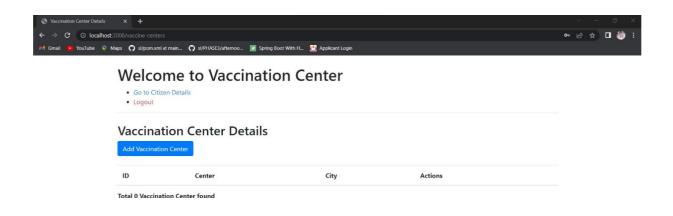
## Login screen:

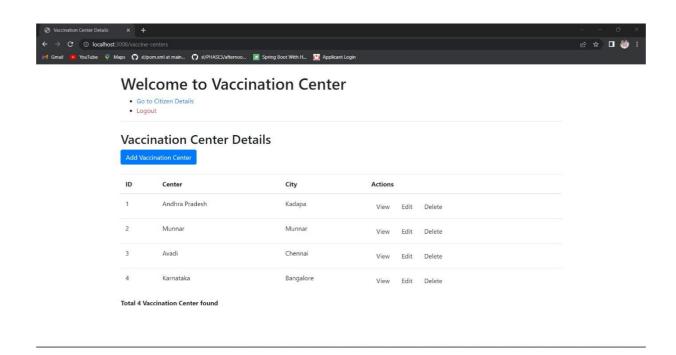


## **User Registration**

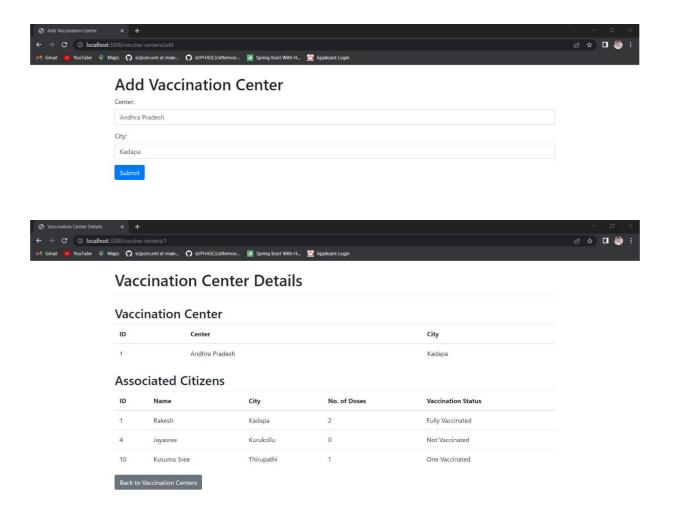


### **Vaccine Centre**

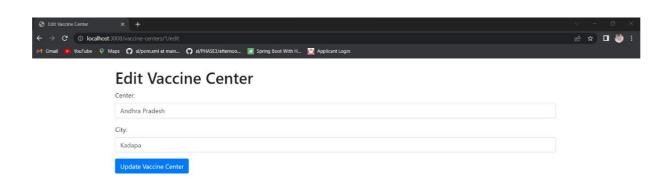




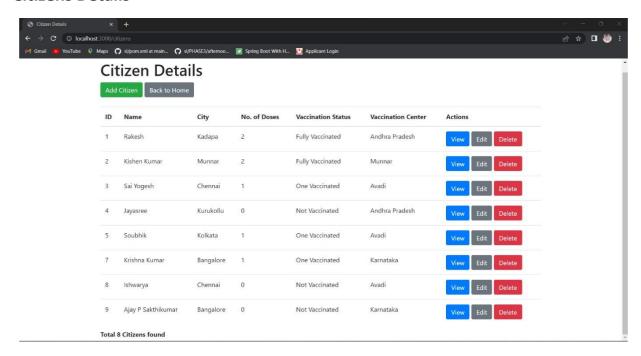
### **Add Vaccine Centre**



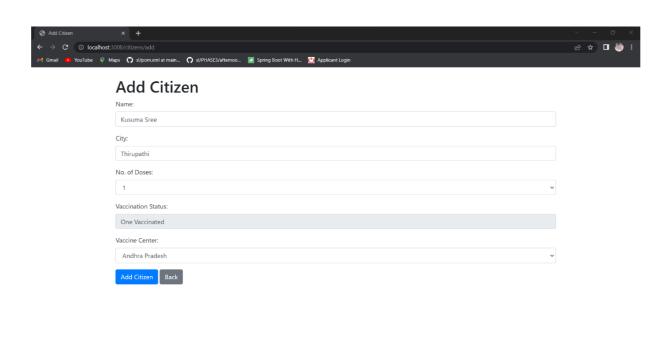
#### **Edit Vaccine Centre**



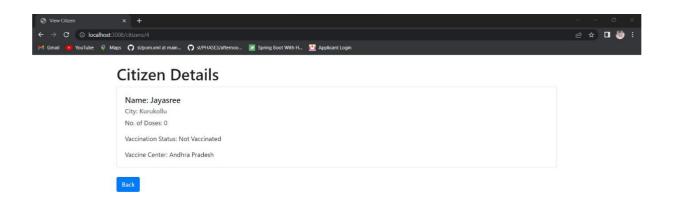
### **Citizens Details**



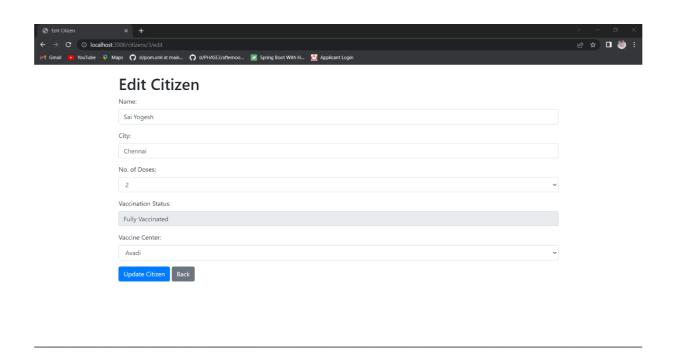
### **Add Citizen**



### **Citizen Details**



### **Edit Citizen Details:**



#### **Database Table:**

