

VaccinationCenterApplication.java

```
package com.vaccination;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication

public class VaccinationCenterApplication {

    public static void main(String[] args) {

        SpringApplication.run(VaccinationCenterApplication.class, args);

    }

}
```

AdminUser.java

```
package com.vaccination.entity;

import javax.persistence.Entity;
import javax.persistence.Id;

@Entity
public class AdminUser {
    @Id
    private String username;
    private String password;
    private String email;
    public String getUsername() {
        return username;
    }
    public void setUsername(String username) {
        this.username = username;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
}

}
```

Citizen.java

```
package com.vaccination.entity;
```

```
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
@Entity
public class Citizen {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;
    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    private String citizenName;
    private int doses;
    @ManyToOne
    @JoinColumn(name = "center_id")
    private VaccinationCenter center;
    public String getCitizenName() {
        return citizenName;
    }
    public void setCitizenName(String citizenName) {
        this.citizenName = citizenName;
    }
    public int getDoses() {
        return doses;
    }
}
```

```

    }

    public void setDoses(int doses) {
        this.doses = doses;
    }

    public VaccinationCenter getCenter() {
        return center;
    }

    public void setCenter(VaccinationCenter center) {
        this.center = center;
    }
}

```

City.java

```

package com.vaccination.entity;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class City {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

    private String cityname;

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getCityname() {
        return cityname;
    }
}

```

```

    }

    public void setCityname(String cityname) {
        this.cityname = cityname;
    }
}

```

VaccinationCenter.java

```

package com.vaccination.entity;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
@Entity
public class VaccinationCenter {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;
    private String centerName;
    private String city;

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getCenterName() {
        return centerName;
    }

    public void setCenterName(String centerName) {
        this.centerName = centerName;
    }

    public String getCity() {

```

```

        return city;
    }

    public void setCity(String city) {
        this.city = city;
    }
}

```

AdminController.java

```

package com.vaccination.controller;

import java.util.logging.Logger;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

import com.vaccination.entity.AdminUser;
import com.vaccination.service.AdminUserService;

@Controller
public class AdminController {

    @Autowired
    AdminUserService adminService;

    @RequestMapping("/")
    public ModelAndView home(HttpServletRequest request, HttpServletResponse response) {
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.setViewName("/home");
        response.setStatus(response.getStatus());
        return modelAndView;
    }

    @PostMapping("/login")

```

```

        public ModelAndView adminLogin(HttpServletRequest request, HttpServletResponse
response) {

            String username = request.getParameter("username");

            String password = request.getParameter("password");

            ModelAndView modelAndView = new ModelAndView();

            AdminUser user1 = adminService.getByUserName(username);

            if (user1 == null) {

                modelAndView.setViewName("/loginUser404");

                return modelAndView;

            }

            AdminUser user2 = adminService.getByUserNamePwd(username, password);

            if (user2 == null) {

                modelAndView.setViewName("/loginError");

            } else {

                HttpSession session = request.getSession();

                session.setAttribute("username", username);

                modelAndView.addObject("user", user2);

                modelAndView.setViewName("adminDashboard");

            }

            return modelAndView;

        }

        @PostMapping("/register")

        public ModelAndView adminRegister(HttpServletRequest request, HttpServletResponse
response) {

            Logger log = Logger.getAnonymousLogger();

            AdminUser user = new AdminUser();

            log.info("inside reg - method");

            user.setUsername(request.getParameter("username"));

            user.setEmail(request.getParameter("email"));

            user.setPassword(request.getParameter("password"));

            log.info(request.getParameter("username") + request.getParameter("email") +
request.getParameter("password"));

```

```

        ModelAndView modelAndView = new ModelAndView();

        String check = adminService.registerUser(user);

        log.info(check);

        if (check.equals("Duplicate username") || check.equals("Duplicate email")) {

            modelAndView.addObject("errorMsg", check);

            modelAndView.setViewName("/registerError");

        } else {

            modelAndView.setViewName("/registerSuccess");

        }

        return modelAndView;

    }

}

```

CitizenController.java

```

package com.vaccination.controller;

import java.util.List;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

import com.vaccination.entity.Citizen;
import com.vaccination.entity.City;
import com.vaccination.entity.VaccinationCenter;
import com.vaccination.service.CitizenService;
import com.vaccination.service.CityService;
import com.vaccination.service.VaccinationCenterService;

@Controller
@RequestMapping("/citizens")

public class CitizenController {

```

```

@Autowired
VaccinationCenterService centerService;

@Autowired
CitizenService citizenService;

@Autowired
CityService cityService;

@RequestMapping("/")
public ModelAndView getCitizens(HttpServletRequest request, HttpServletResponse
response) {

    ModelAndView modelAndView = new ModelAndView();

    modelAndView.setViewName("citizens");

    List<Citizen> citizens = citizenService.getAllCitizens();

    modelAndView.addObject("citizens", citizens);

    return modelAndView;

}

@RequestMapping("/add")
public ModelAndView addCitizen(HttpServletRequest request, HttpServletResponse
response) {

    ModelAndView modelAndView = new ModelAndView();

    modelAndView.setViewName("addCitizen");

    List<City> cities = cityService.getAllCities();

    modelAndView.addObject("cities", cities);

    return modelAndView;

}

@PostMapping("/add-getcenter")
public ModelAndView intermed(HttpServletRequest request, HttpServletResponse response)
{

    ModelAndView modelAndView = new ModelAndView();

    modelAndView.setViewName("add-Citizen");

    List<City> cities = cityService.getAllCities();

    modelAndView.addObject("citizenName", request.getParameter("citizenName"));

```



```

        modelAndView.addObject("cities", cities);

        String selectedCity = request.getParameter("city");
        modelAndView.addObject("selectedCity", selectedCity);

        List<VaccinationCenter> centers = centerService.getCentersByCity(selectedCity);
        modelAndView.addObject("centers", centers);

        modelAndView.addObject("doses", request.getParameter("doses"));

        return modelAndView;
    }

    @PostMapping("/addCitizen")

    public ModelAndView addCenter(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("redirect:/citizens/");

        Citizen citizen = new Citizen();

        citizen.setCitizenName(request.getParameter("citizenName"));

        citizen.setDoses(Integer.parseInt(request.getParameter("doses")));

        citizen.setCenter(centerService.getCenterById(Integer.parseInt(request.getParameter("cente
r"))));

        if (citizenService.addCitizen(citizen) != null)

            return modelAndView;

        else {

            modelAndView.setViewName("errorOper");

            return modelAndView;

        }

    }

    @RequestMapping("/view")

    public ModelAndView viewCitizen(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("viewCitizen");

        int citizenId = Integer.parseInt(request.getParameter("id"));

```

```

        Citizen citizen = citizenService.getCitizenById(citizenId);

        modelAndView.addObject("citizen", citizen);

        return modelAndView;
    }

    @RequestMapping("/edit")

    public ModelAndView getForEdit(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("/editCitizen");

        Citizen citizen =
citizenService.getCitizenById(Integer.parseInt(request.getParameter("id")));

        List<City> cities = cityService.getAllCities();

        modelAndView.addObject("cities", cities);

        modelAndView.addObject("citizen", citizen);

        return modelAndView;
    }

    @PostMapping("/edit-getcenter")

    public ModelAndView intermedEdit(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("/edit-Citizen");

        List<City> cities = cityService.getAllCities();

        modelAndView.addObject("citizenId", Integer.parseInt(request.getParameter("id")));

        modelAndView.addObject("citizenName", request.getParameter("citizenName"));

        modelAndView.addObject("cities", cities);

        String selectedCity = request.getParameter("city");

        modelAndView.addObject("selectedCity", selectedCity);

        List<VaccinationCenter> centers = centerService.getCentersByCity(selectedCity);

        modelAndView.addObject("centers", centers);

        modelAndView.addObject("doses", request.getParameter("doses"));

        return modelAndView;
    }

```

```

    }

    @PostMapping("/editCitizen")

    public ModelAndView editCitizen(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("redirect:/citizens/");

        Citizen citizen = new Citizen();

        citizen.setId(Integer.parseInt(request.getParameter("id")));

        citizen.setCitizenName(request.getParameter("citizenName"));

        citizen.setDoses(Integer.parseInt(request.getParameter("doses")));

        citizen.setCenter(centerService.getCenterById(Integer.parseInt(request.getParameter("cente
r"))));

        if (citizenService.updateCitizen(citizen) != null)

            return modelAndView;

        else {

            modelAndView.setViewName("errorOper");

            return modelAndView;

        }

    }

    @RequestMapping("delete")

    public ModelAndView delCitizen(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("redirect:/citizens/");

        citizenService.delCitizenById(Integer.parseInt(request.getParameter("id")));

        return modelAndView;

    }

}

```

VaccinationCenterController.java

```

package com.vaccination.controller;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

```

```

import javax.servlet.http.HttpServletResponse;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.servlet.ModelAndView;

import com.vaccination.entity.Citizen;

import com.vaccination.entity.City;

import com.vaccination.entity.VaccinationCenter;

import com.vaccination.service.CitizenService;

import com.vaccination.service.CityService;

import com.vaccination.service.VaccinationCenterService;

@Controller
@RequestMapping("/vaccinationcenter")

public class VaccinationCenterController {

    @Autowired

    VaccinationCenterService centerService;

    @Autowired

    CitizenService citizenService;

    @Autowired

    CityService cityService;

    @RequestMapping("/")

    public ModelAndView getVaccCenters(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("/vaccinationCenters");

        List<VaccinationCenter> centers = centerService.getAllCenters();

        modelAndView.addObject("centers", centers);

        return modelAndView;

    }

    @RequestMapping("/add")

```

```

    public ModelAndView sendCity(HttpServletRequest request, HttpServletResponse response)
    {
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.setViewName("/addCenter");

        List<City> cities = cityService.getAllCities();
        modelAndView.addObject("cities", cities);
        return modelAndView;
    }

```

```

    @PostMapping("/addCenter")

```

```

    public ModelAndView addCenter(HttpServletRequest request, HttpServletResponse
response) {
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.setViewName("redirect:/vaccinationcenter/");
        VaccinationCenter center = new VaccinationCenter();
        center.setCenterName(request.getParameter("center"));
        center.setCity(request.getParameter("city"));
        if (centerService.addCenter(center) != null)
            return modelAndView;
        else {
            modelAndView.setViewName("errorOper");
            return modelAndView;
        }
    }
}

```

```

    @RequestMapping("/view")

```

```

    public ModelAndView viewCenter(HttpServletRequest request, HttpServletResponse
response) {
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.setViewName("viewCenter");
        int centerId = Integer.parseInt(request.getParameter("id"));
        VaccinationCenter center = centerService.getCenterById(centerId);
        List<Citizen> citizens = citizenService.getCitizenByCenterId(centerId);
        modelAndView.addObject("citizens", citizens);
    }
}

```

```

        modelAndView.addObject("center", center);

        return modelAndView;
    }

    @RequestMapping("/edit")
    public ModelAndView getForEdit(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("/editCenter");

        VaccinationCenter center =
centerService.getCenterById(Integer.parseInt(request.getParameter("id")));

        List<City> cities = cityService.getAllCities();

        modelAndView.addObject("cities", cities);

        modelAndView.addObject("center", center);

        return modelAndView;
    }

    @RequestMapping("/editCenter")
    public ModelAndView editCenter(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("redirect:/vaccinationcenter/");

        VaccinationCenter center = new VaccinationCenter();

        center.setId(Integer.parseInt(request.getParameter("id")));

        center.setCenterName(request.getParameter("center"));

        center.setCity(request.getParameter("city"));

        center = centerService.updateCenter(center);

        if (center != null)

            return modelAndView;

        else {

            modelAndView.setViewName("errorOper");

            return modelAndView;

        }

    }
}

```

```

    @RequestMapping("/delete")

    public ModelAndView delCenter(HttpServletRequest request, HttpServletResponse
response) {

        ModelAndView modelAndView = new ModelAndView();

        modelAndView.setViewName("redirect:/vaccinationcenter/");

        citizenService.delCitizenByCenterId(Integer.parseInt(request.getParameter("id")));

        centerService.delCenter(Integer.parseInt(request.getParameter("id")));

        return modelAndView;

    }

}

```

AdminUserRepository.java

```

package com.vaccination.repo;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import com.vaccination.entity.AdminUser;

public interface AdminUserRepository extends JpaRepository<AdminUser, String> {

    @Query("SELECT au FROM AdminUser au WHERE au.username=?1 AND au.password=?2")
    public AdminUser findByUserNamePwd(String username, String password);

    @Query("SELECT au FROM AdminUser au WHERE au.email=?1")
    public AdminUser findByEmail(String email);

    @Query("SELECT au FROM AdminUser au WHERE au.username=?1")
    public AdminUser findByUsername(String username);

}

```

CitizenRepository.java

```

package com.vaccination.repo;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import com.vaccination.entity.Citizen;

public interface CitizenRepository extends JpaRepository<Citizen, Integer> {

```

```

        @Query("SELECT citizen FROM Citizen citizen JOIN citizen.center citizen_center WHERE
citizen_center.id = ?1")

        public List<Citizen> getByCenterId(int centerId);
    }

```

CityRepository.java

```

package com.vaccination.repo;

import org.springframework.data.jpa.repository.JpaRepository;
import com.vaccination.entity.City;

public interface CityRepository extends JpaRepository<City, Integer> {
}

```

VaccinationCenterRepository.java

```

package com.vaccination.repo;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import com.vaccination.entity.VaccinationCenter;

public interface VaccinationCenterRepository extends JpaRepository<VaccinationCenter, Integer> {

    @Query("SELECT center FROM VaccinationCenter center WHERE center.id=?1")
    public VaccinationCenter getCenterById(int id);

    @Query("SELECT center FROM VaccinationCenter center WHERE center.city=?1")
    public List<VaccinationCenter> getCenterByCity(String cityName);
}

```

AdminUserService.java

```

package com.vaccination.service;

import com.vaccination.entity.AdminUser;

public interface AdminUserService {

    public AdminUser getByUserNamePwd(String username, String password);

    public String registerUser(AdminUser user);

    public AdminUser getByUserName(String username);
}

```


CitizenService.java

```
package com.vaccination.service;

import java.util.List;

import com.vaccination.entity.Citizen;

public interface CitizenService {

    public List<Citizen> getAllCitizens();

    public List<Citizen> getCitizenByCenterId(int centerId);

    public void delCitizenByCenterId(int centerId);

    public Citizen addCitizen(Citizen citizen);

    public Citizen getCitizenById(int citizenId);

    public Citizen updateCitizen(Citizen citizen);

    public void delCitizenById(int citizenId);}
```

CityService.java

```
package com.vaccination.service;

import java.util.List;

import com.vaccination.entity.City;

public interface CityService {

    public List<City> getAllCities();

}
```

VaccinationCenterService.java

```
package com.vaccination.service;

import java.util.List;

import com.vaccination.entity.VaccinationCenter;

public interface VaccinationCenterService {

    public List<VaccinationCenter> getAllCenters();

    public VaccinationCenter getCenterById(int id);

    public VaccinationCenter updateCenter(VaccinationCenter center);

    public VaccinationCenter addCenter(VaccinationCenter center);

    public void delCenter(int id);

    public List<VaccinationCenter> getCentersByCity(String cityName);}
```

```
}
```

AdminUserServiceImpl.java

```
package com.vaccination.service_impl;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.vaccination.entity.AdminUser;
import com.vaccination.repo.AdminUserRepository;
import com.vaccination.service.AdminUserService;

@Service
public class AdminUserServiceImpl implements AdminUserService {

    @Autowired
    AdminUserRepository adminRepo;

    public AdminUser getByUserNamePwd(String username, String password) {
        return (adminRepo.findByUserNamePwd(username, password));
    }

    public String registerUser(AdminUser user) {
        AdminUser checkUser1 = adminRepo.findByUsername(user.getUsername());
        if (checkUser1 != null)
            return "Duplicate username";

        AdminUser checkUser2 = adminRepo.findByEmail(user.getEmail());
        if (checkUser2 != null)
            return "Duplicate email";

        adminRepo.save(user);
        return "User added successfully";
    }

    public AdminUser getByUserName(String username) {
        return adminRepo.findByUsername(username);
    }
}
```

CitizenServiceImpl.java

```
package com.vaccination.service_impl;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.vaccination.entity.Citizen;
import com.vaccination.repo.CitizenRepository;
import com.vaccination.service.CitizenService;

@Service

public class CitizenServiceImpl implements CitizenService {

    @Autowired
    CitizenRepository citizenRepo;

    public List<Citizen> getAllCitizens() {
        return citizenRepo.findAll();
    }

    public List<Citizen> getCitizenByCenterId(int centerId) {
        return citizenRepo.getByCenterId(centerId);
    }

    public void delCitizenByCenterId(int centerId) {
        citizenRepo.deleteAll(citizenRepo.getByCenterId(centerId));
    }

    public Citizen addCitizen(Citizen citizen) {
        return citizenRepo.save(citizen);
    }

    public Citizen getCitizenById(int citizenId) {
        return citizenRepo.findById(citizenId).orElse(null);
    }

    public Citizen updateCitizen(Citizen citizen) {
        return citizenRepo.save(citizen);
    }

    public void delCitizenById(int citizenId) {
        citizenRepo.deleteById(citizenId);
    }
}
```

```
    }  
}
```

CityServiceImpl.java

```
package com.vaccination.service_impl;  
  
import java.util.List;  
  
import org.springframework.beans.factory.annotation.Autowired;  
  
import org.springframework.stereotype.Service;  
  
import com.vaccination.entity.City;  
  
import com.vaccination.repo.CityRepository;  
  
import com.vaccination.service.CityService;  
  
@Service  
  
public class CityServiceImpl implements CityService {  
  
    @Autowired  
  
    CityRepository cityRepo;  
  
    public List<City> getAllCities() {  
        return cityRepo.findAll();  
    }  
}
```

VaccinationCenterServiceImpl.java

```
package com.vaccination.service_impl;  
  
import java.util.List;  
  
import org.springframework.beans.factory.annotation.Autowired;  
  
import org.springframework.stereotype.Service;  
  
import com.vaccination.entity.VaccinationCenter;  
  
import com.vaccination.repo.VaccinationCenterRepository;  
  
import com.vaccination.service.VaccinationCenterService;  
  
@Service  
  
public class VaccinationCenterServiceImpl implements VaccinationCenterService {  
  
    @Autowired  
  
    VaccinationCenterRepository centerRepo;
```

```

    public List<VaccinationCenter> getAllCenters() {
        return centerRepo.findAll();
    }

    public VaccinationCenter getCenterById(int id) {
        return centerRepo.getCenterById(id);
    }

    public VaccinationCenter updateCenter(VaccinationCenter center) {
        return centerRepo.save(center);
    }

    public VaccinationCenter addCenter(VaccinationCenter center) {
        return centerRepo.save(center);
    }

    public void delCenter(int id) {
        centerRepo.deleteById(id);
    }

    public List<VaccinationCenter> getCentersByCity(String cityName) {
        return centerRepo.getCenterByCity(cityName);
    }
}

```

addCentre.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page import="com.vaccination.entity.*"%>
<%@page import="java.util.*"%>
<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Add New Center</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 500px;
    margin: 0 auto;
    text-align: center;
}
.menu-box a {

```

```

        display: block;
        margin-bottom: 10px;
    }
    table {
        width: 100%;
        border-collapse: collapse;
    }

    th, td {
        padding: 8px;
        border: 1px solid #ccc;
    }

    th {
        background-color: #f2f2f2;
    }
</style>
</head>
<body>

    <br><br>
    <div class="menu-box">
        <h1>Add new Vaccination Center</h1>
        <form action="addCenter" method="post" >
            <table>
                <tr>
                    <td>Center Name</td>
                    <td><input type="text" name="center"></td>
                </tr>
                <tr>
                    <td>Center City</td>
                    <td>
                        <select name="city" >
                            <% List<City> cities = (List<City>)
request.getAttribute("cities");
                            for(City city: cities){
                                <%>
                                    <option
value="<%=city.getCityname()%>"><%=city.getCityname() %></option>
                                <%> %>
                                </select>
                            </td>
                        </tr>
                        <tr>
                            <td colspan="2"><input type="submit" value="Submit"></td>
                        </tr>
                    </table>
                </form>
            </div>
</body>
</html>

```

addCitizen.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page import="com.vaccination.entity.*"%>
<%@page import="java.util.*"%>
<%@include file="welcomeHeader.jsp"%>

```

```

<%@include file="security.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Add New Citizen</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 500px;
    margin: 0 auto;
    text-align: center;
}

.menu-box a {
    display: block;
    margin-bottom: 10px;
}

table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 8px;
    border: 1px solid #ccc;
}

th {
    background-color: #f2f2f2;
}

</style>
</head>
<body>
<br><br>
    <div class="menu-box">
        <h1>Add New Citizen</h1>
        <form action="add-getcenter" method="post">
            <table>
                <tr>
                    <td>Citizen Name</td>
                    <td><input type="text" name="citizenName"></td>
                </tr>
                <tr>
                    <td>No. of Doses</td>
                    <td>
                        <select name="doses">
                            <option value="0">0</option>
                            <option value="1">1</option>
                            <option value="2">2</option>
                        </select>
                    </td>
                </tr>
                <tr>
                    <td>City Name</td>
                    <td>

```

```

onchange="this.form.submit()")>
<select name="city" id="city"
<option value="">Select City</option>
<%
List<City> cities = (List<City>)
for (City city : cities) {
<option value=""<%=
city.getCityname() %>"><%= city.getCityname() %></option>
}
%>
</select>
</td>
</tr>
<tr>
<td>Center Name</td>
<td>
<select name="center" >
</select>
</td>
</tr>
<tr>
<td colspan="2"><input type="submit"
value="Submit"></td>
</tr>
</table>
</form>
</div>
</body>
</html>

```

add-Citizen.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page import="com.vaccination.entity.*"%>
<%@page import="java.util.*"%>
<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Add New Citizen</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 500px;
    margin: 0 auto;
    text-align: center;
}

.menu-box a {
    display: block;
    margin-bottom: 10px;

```


[illegible]

```

                                <option
value="<%= (String)request.getAttribute("selectedCity") %>"
selected><%= (String)request.getAttribute("selectedCity") %></option>
                                </select></td>
                                </tr>
                                <tr>
                                    <td>Center Name</td>
                                    <td>
                                        <select name="center" >
                                            <% List<VaccinationCenter> centers =
(List<VaccinationCenter>) request.getAttribute("centers");
                                            for(VaccinationCenter center: centers){
                                                <%
                                <option
value="<%=center.getId() %>"><%=center.getCenterName() %></option>
                                                <%} %>
                                </select>
                                    </td>
                                    </tr>
                                    <tr>
                                        <td colspan="2"><input type="submit"
value="Submit"></td>
                                    </tr>
                                </table>
                                </form>
                                <i>Go Back, if you wish to change city</i>
                            </div>
</body></html>

```

adminDashboard.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Dashboard</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 500px;
    margin: 0 auto;
    text-align: center;
}
</style>
</head>
<body>
<br><br>
    <div class="menu-box">
        <h2>Welcome to Vaccination Center Application</h2>
        <br><br>
        <h3>Select any of the above options to perform operations</h3>
    </div>
</body>
</html>

```

Citizens.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<%@page import="java.util.*" %>
<%@page import="com.vaccination.entity.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Citizens</title>
<style>
table {
    width: 100%;
    border-collapse: collapse;
    text-align: center;
}

th, td {
width:14%;
    border: 1px solid black;
    padding: 8px;
}

th {
    background-color: #f2f2f2;
    height:40px;
}

.add-center-btn {
    float: right;
}

.button-width-2 {
    width: 30%;
    margin: 0 auto;
    text-align: center;
}

</style>
</head>
<body>
<br><br>
<h2 align="left">Citizens</h2>
<%
List<Citizen> citizens = (List<Citizen>)request.getAttribute("citizens");
int count = 0;
%>
<table>
    <tr>
        <td colspan="7"><a href="add" class="add-center-btn"><button>Add New
Citizen</button></a></td>
    </tr>
    <tr>
        <th>ID</th>
        <th>Name</th>
```

```

        <th>City</th>
        <th>No. Of Doses</th>
        <th>Vaccination Status</th>
        <th>Vaccination Center</th>
        <th>Action</th>
    </tr>
    <%
    for (Citizen citizen : citizens) {
    %>
    <tr>
        <td><%=citizen.getId()%></td>
        <td><%=citizen.getCitizenName()%></td>
        <td><%=citizen.getCenter().getCity()%></td>
        <td><%=citizen.getDoses()%></td>
        <td>
            <%
            if (citizen.getDoses() == 0) {
            %> Not Vaccinated <%
            }
            if (citizen.getDoses() == 1) {
            %> Partially Vaccinated <%
            }
            if (citizen.getDoses() == 2) {
            %> Fully Vaccinated <%
            }
            %>
        </td>
        <td><%=citizen.getCenter().getCenterName()%></td>
        <td class="action-buttons">
            <a href="view?id=<%=citizen.getId()%>"><button class="button-
width-2">View</button></a>
            <a href="edit?id=<%=citizen.getId()%>"><button class="button-
width-2">Edit</button></a>
            <a href="delete?id=<%=citizen.getId()%>"><button
class="button-width-2">Delete</button></a>
        </td>
    </tr>
    <%
    count++;
    }
    %>
    <tr>
        <td colspan="7">Total <%=count%> citizens found.</td>
    </tr>
</table>
</body>
</html>

```

editCentre.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ page import="com.vaccination.*"%>
<%@ page import="java.util.*"%>
<%@page import="com.vaccination.entity.*"%>
<%@include file="security.jsp"%>
<%@include file="welcomeHeader.jsp"%>
<!DOCTYPE html>
<html>
<head>

```

```
<meta charset="ISO-8859-1">
<title>Edit Center</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 300px;
    margin: 0 auto;
    text-align: center;
}
table {
    width: 100%;
    border-collapse: collapse;
}
th, td {
    padding: 8px;
    border: 1px solid #ccc;
}
th {
    background-color: #f2f2f2;
}
</style>
</head>
<body>
<br><br>
<div class="menu-box">
    <h1>Center Information</h1>
    <%
        VaccinationCenter center = (VaccinationCenter)
request.getAttribute("center");
        List<City> cities = (List<City>) request.getAttribute("cities");
    %>
    <form action="editCenter">
        <table>
            <tr>
                <th colspan="2">Edit <%= center.getCenterName()
%></th>
            </tr>
            <tr>
                <td>Center Name</td>
                <td><input type="text" name="center" value="<%=
center.getCenterName() %>"></td>
            </tr>
            <tr>
                <td>Center City</td>
                <td>
                    <select name="city">
                        <%
                            for (City city : cities) {
                                if
(city.getCityname().equals(center.getCity())) {
                                    %>
                                    <option value="<%=
city.getCityname() %>" selected><%= city.getCityname()%></option>
                                    <%
                                } else {
                                    %>
                                }
                            }
                        %>
                    </select>
                </td>
            </tr>
        </table>
    </form>
</div>
</body>
</html>
```

```

                                <option value="<%=
city.getCityname() %>"><%= city.getCityname() %></option>
                                <%
                                }
                                }
                                %>
                                </select>
                                </td>
                                </tr>
                                <tr>
                                <td colspan="2"><input type="submit"
value="Submit"></td>
                                </tr>
                                </table>
                                <input type="hidden" name="id" value="<%= center.getId() %>">
                                </form>
                                </div>
</body>
</html>

```

editCitizen.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="com.vaccination.*"%>
<%@ page import="java.util.*"%>
<%@page import="com.vaccination.entity.*"%>
<%@include file="security.jsp"%>
<%@include file="welcomeHeader.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Edit Citizen</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 500px;
    margin: 0 auto;
    text-align: center;
}

table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 8px;
    border: 1px solid #ccc;
}

th {
    background-color: #f2f2f2;
    height: 40px;
}
</style>
</head>
<body>

```

```

<br><br>
<div class="menu-box">
    <h1>Citizen Information</h1>
    <%
        Citizen citizen = (Citizen) request.getAttribute("citizen");
        List<City> cities = (List<City>) request.getAttribute("cities");
    %>
    <form action="edit-getcenter" method="post">
        <table>
            <tr>
                <th colspan="2"><b>Edit Citizen</b></th>
            </tr>
            <tr>
                <td>Citizen Name</td>
                <td><input type="text" name="citizenName"

value="<%=citizen.getCitizenName()%>"></td>
            </tr>
            <tr>
                <td>Citizen City</td>
                <td><select name="city" id="city"
                    onchange="this.form.submit()">

                    <%
                        for (City city : cities) {
                            if
(city.getCityname().equals(citizen.getCenter().getCity())) {
                                <%
                                    <option
value="<%=city.getCityname()%>" selected><%=city.getCityname()%></option>
                                <%
                                    } else {
                                        <%
                                            <option
value="<%=city.getCityname()%>"><%=city.getCityname()%></option>
                                        <%
                                            }
                                        }
                                <%
                                    }
                                }
                            <%
                                }
                            }
                        }
                    %>
                </select></td>
            </tr>
            <tr>
                <td>No. of Doses</td>
                <td><select name="doses">
                    <%
                        for (int count = 0; count <= 2;
count++) {
                            if (count ==
citizen.getDoses()) {
                                <%
                                    <option value="<%=count%>"
selected><%=count%></option>
                                <%
                                    } else {
                                        <%
                                            <option
value="<%=count%>"><%=count%></option>
                                        <%
                                            }
                                        }
                                    <%
                                        }
                                    }
                                <%
                                    }
                                }
                            <%
                                }
                            }
                        }
                    %>
                </select></td>
            </tr>
        </table>
    </form>

```

```

        }
        %>
    </select></td>
</tr>
<tr>
    <td>Vaccination Center</td>
    <td><select name="center">
        <option
value="<%=citizen.getCenter().getId()%>"
selected><%=citizen.getCenter().getCenterName()%></option>
        </select></td>
</tr>
<tr>
    <td colspan="2"><input type="submit"
value="Submit"></td>
</tr>
</table>
<input type="hidden" name="id" value="<%= citizen.getId() %>">
</form>
</div>
</body>
</html>

```

errorOper.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error in performing Operation</title>
</head>
<body>
    <h1>Something went wrong! Try Again...</h1>
</body>
</html>

```

home.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Home</title>
<style>
.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 300px;
    margin: 0 auto;
    text-align: center;
}

.menu-box a {
    display: block;
    margin-bottom: 10px;

```



```

}
</style>
</head>
<body>
    <div class="menu-box">

        <form action="/Login" method="post">

            <table>
                <tr>
                    <td><b>Admin Login</b></td>
                    <td></td>
                </tr>
                <tr>
                    <td>Username</td>
                    <td><input type="text" name="username"
required></td>
                </tr>
                <tr>
                    <td>Password</td>
                    <td><input type="password" name="password"
required></td>
                </tr>
                <tr>
                    <td><input type="submit" value="Login"></td>
                    <td></td>
                </tr>
            </table>

            </form>
            <br> <b>New User? Register here </b><br> <a
href="/pages/register.jsp"><button>Registration</button></a>
        </div>
</body>
</html>

```

loginError.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login Error</title>
</head>
<body>
    <h1 align="center"> Invalid Credentials! </h1>
    <h3 align="center"> Please Try Again</h3>
    <%@include file="/pages/home.jsp"%>
</body>
</html>

```

loginUser404.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>404 - Username does not exist</title>
</head>
<body>
    <h1 align="center"> Username does not exist! </h1>
    <h3 align="center"> Please Check the username</h3>
    <%@include file="/pages/home.jsp"%>
</body>
</html>

```

logout.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@include file="security.jsp"%>
<!DOCTYPE html>
<html>
<body>
    <%
        response.setHeader("Cache-Control", "no-cache, no-store, must-revalidate");
        response.setHeader("Pragma", "no-cache");
        response.setDateHeader("Expires", 0);
    %>
    <%
        session.invalidate();
    %>
    <h2 align="center">Logged out successfully!</h2>
    <%@include file="/pages/home.jsp"%>
</body>
</html>

```

register.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Registration</title>
</head>
<style>
table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 8px;
    border: 1px solid #ccc;
}

th {
    background-color: #f2f2f2;
}

```

```

.menu-box {
    border: 1px solid #ccc;
    padding: 10px;
    width: 300px;
    margin: 0 auto;
    text-align: center;
}

.menu-box a {
    display: block;
    margin-bottom: 10px;
}
</style>
<body>
    <h1>Admin Registration</h1>
    <div class="menu-box">
        <form action="/register" method="post">

            <table>
                <tr>
                    <td><h3 align="center">Registration</h3></td>
                </tr>
                <tr>
                    <td>
                        <table>
                            <tr>
                                <td>Username</td>
                                <td><input type="text" name="username" required></td>
                            </tr>
                            <tr>
                                <td>Email</td>
                                <td><input type="email" name="email" required></td>
                            </tr>
                            <tr>
                                <td>Password</td>
                                <td><input type="password" name="password"
required></td>
                            </tr>
                        </table>
                    </td>
                </tr>
                <tr>
                    <td><input type="submit" value="Register"></td>
                </tr>
            </table>
        </form>
    </div>
</body>
</html>

```

registerError.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

```

        pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Registration Error</title>
</head>
<body>
    <h1 align="center">
        <%
            if (request.getAttribute("errorMsg").equals("Duplicate username")){
        %>
            Username Already exists! Please use a different Username.
        <%}
            if (request.getAttribute("errorMsg").equals("Duplicate email")){
        %>
            Email ID Already exists! Please use a different email ID.
        <%}%>
    </h1>
    <%@include file="/pages/register.jsp"%>
</body>
</html>

```

registerSuccess.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Successfully Registered</title>
</head>
<body>
    <h1 align="center">Account created Successfully!</h1>
    <%@include file="/pages/home.jsp" %>
</body>
</html>

```

Security.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Successfully Registered</title>
</head>
<body>
<%
response.setHeader("Cache-Control", "no-cache, no-store, must-revalidate");
response.setHeader("Pragma", "no-cache");
response.setDateHeader("Expires", 0);
%>
    <%
        if (session.getAttribute("username") == null) {
            response.sendRedirect("/pages/home.jsp");
        }
    %>

```

```
</body>
</html>
```

vaccinationCentres.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<%@page import="java.util.*" %>
<%@page import="com.vaccination.entity.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Vaccination Centers</title>
<style>
table {
    width: 100%;
    border-collapse: collapse;
    text-align: center;
}

th, td {

    border: 1px solid black;
}

th {
    background-color: #f2f2f2;
    height: 40px;
}
.add-center-btn {
    float: right;
}
.button-width-2 {
    width: 30%;
    margin: 0 auto;
    text-align: center;
}
</style>
</head>
<body >
<br><br>
<h2 align="left">Centers</h2>
<%
    List<VaccinationCenter> centers =
(List<VaccinationCenter>)request.getAttribute("centers");
    int count = 0;
    %>
    <table>
        <tr>
            <td colspan="4"><a href="add" class="add-center-
btn"><button>Add New Center</button></a></td>
        </tr>
        <tr>
            <th>ID</th>
            <th>Name</th>
            <th>City</th>
```

```

        <th>Action</th>
    </tr>
    <%
    for (VaccinationCenter center : centers) {
    %>
    <tr>
        <td><%=center.getId()%></td>
        <td><%=center.getCenterName()%></td>
        <td><%=center.getCity()%></td>
        <td>
            <a href="view?id=<%=center.getId() %>" ><button
class="button-width-2">View</button></a>
            <a href="edit?id=<%=center.getId() %>"><button
class="button-width-2">Edit</button></a>
            <a href="delete?id=<%=center.getId() %>"><button
class="button-width-2">Delete</button></a>
        </td>
    </tr>
    <%
    count++;
    }
    %>
    <tr>
        <td colspan="4">Total <%=count %> Vaccination Centers
found.</td>
    </tr>
</table>
</body>
</html>

```

viewCentre.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<%@page import="java.util.*" %>
<%@page import="com.vaccination.entity.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Vaccination Center</title>
<style>
table {
    border-collapse: collapse;
    text-align: center;
}
th, td {
    border: 1px solid black;
}
th {
    background-color: #f2f2f2;
    height:40px;
}
.add-center-btn {

```

```

        float: right;
    }
.button-width-2 {
    width: 30%;
    margin: 0 auto;
    text-align: center;
}
</style>
</head>
<body >
<br><br>
    <%VaccinationCenter center =
(VaccinationCenter)request.getAttribute("center");
    List<Citizen> citizens = (List<Citizen>)request.getAttribute("citizens");{
    %>
    <h2 align="left">Center Information</h2>
    <table>
        <tr>
            <th colspan="2" ><b><%=center.getCenterName()%></b></th>
        </tr>
        <tr>
            <td>ID</td>
            <td><%=center.getId() %></td>
        </tr>
        <tr>
            <td>City</td>
            <td><%=center.getCity() %></td>
        </tr>
    </table>
    <hr>
    <h2 align="left">All Citizens of this center</h2>
    <table>
        <tr>
            <th><b>ID</b></th>
            <th><b>Name</b></th>
            <th><b>Action</b></th>
        </tr>
        <%for (Citizen citizen:citizens){%>
        <tr>
            <td><%=citizen.getId() %></td>
            <td><%=citizen.getCitizenName() %></td>
            <td><a href="/citizens/view?id=<%=citizen.getId()%>">View</a>
        </tr>
        <%} %>
    </table>
    <%} %>
</body>
</html>

```

ViewCitizen.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@include file="welcomeHeader.jsp"%>
<%@include file="security.jsp"%>
<%@page import="java.util.*" %>
<%@page import="com.vaccination.entity.*"%>
<!DOCTYPE html>
<html>
<head>

```

```

<meta charset="ISO-8859-1">
<title>Citizen</title>
<style>
table {
    border-collapse: collapse;
    text-align: center;
}
th, td {

    border: 1px solid black;

}
th {
    background-color: #f2f2f2;
    height:40px;
}
</style>
</head>
<body >
<br><br>
    <%Citizen citizen = (Citizen)request.getAttribute("citizen"); {
    %>
    <h2 align="left">Citizen Information</h2>
    <table>
        <tr>
            <th colspan="2" ><b><%=citizen.getCitizenName()%></b></th>
        </tr>
        <tr>
            <td>ID</td>
            <td><%=citizen.getId() %></td>
        </tr>
        <tr>
            <td>City</td>
            <td><%=citizen.getCenter().getCity() %></td>
        </tr>
        <tr>
            <td>Number of Vaccines</td>
            <td><%=citizen.getDoses()%></td>
        </tr>
        <tr>
            <td>Vaccination Status</td>
            <td><%
            if (citizen.getDoses() == 0) {
            %> Not Vaccinated <%
            }
            if (citizen.getDoses() == 1) {
            %> Partially Vaccinated <%
            }
            if (citizen.getDoses() == 2) {
            %> Fully Vaccinated <%
            }
            %></td>
        </tr>
        <tr>
            <td>Allocated Vaccination Center</td>
            <td><a href =
            "/vaccinationcenter/view?id=<%=citizen.getCenter().getId()%>"><%=citizen.getCenter
            ().getCenterName() %></a></td>
        </tr>
    </table>
    %>
    %>

```



```

        </table>
    <%} %>
</body>
</html>

```

welcomeHeader.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<style>
table {
    width: 100%;
    border-collapse: collapse;
}
th, td {
    height: 20px;
    width: 25%;
    padding: 8px;
    border: 2px solid #ccc;
}

.center-text {
    width: 100%;
    margin: 0 auto;
    text-align: center;
}
</style>
</head>
<body>
    <table>
        <tr>
            <td><a href="/citizens/"> Citizens</a></td>
            <td><a href="/vaccinationcenter/">Vaccination
Centers</a></td>
            <td><a href="/pages/Logout.jsp">Logout</a></td>
            <td><p class="center-text"><b>Welcome,
<%=session.getAttribute("username")%></b></p></td>
        </tr>
    </table>
</body>
</html>

```

Application.properties

```

server.port=8080
spring.jpa.hibernate.ddl-auto=update
spring.jpa.hibernate.dialect=org.hibernate.dialect.MySQLDialect
spring.jpa.show-sql = true
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/vaccination_center_app
spring.datasource.username=root
spring.datasource.password=Madan@223004118
spring.mvc.view.suffix=.jsp
spring.mvc.view.prefix=/pages/

```