

Source Code:

```
package com.VaccinationCenter.Controller;

import java.util.ArrayList;
import java.util.List;
import java.util.logging.Logger;

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.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;

import com.VaccinationCenter.Entities.Citizen;
import com.VaccinationCenter.Entities.VaccinationCenter;
import com.VaccinationCenter.Service.CitizenService;
import com.VaccinationCenter.Service.VaccinationCenterService;
@Controller
@RequestMapping("/admin/citizen")
public class CitizenController {
    @Autowired
    CitizenService citizenService;

    @Autowired
    VaccinationCenterService vaccinationService;

    @RequestMapping("/addCitizen")
    public ModelAndView AddNewCitizen(HttpServletRequest request,
HttpServletResponse response) {
        ModelAndView mv = new ModelAndView();
        List<VaccinationCenter> vaccinationCenters =
vaccinationService.getAllCenters();
        List<VaccinationCenter> inactiveCenters = new ArrayList<>();
        for (VaccinationCenter center : vaccinationCenters) {
            String status = center.getStatus();
            if (status == null) {
                inactiveCenters.add(center);
            }
        }
    }
}
```

```

    }
    mv.addObject("centers", inactiveCenters);
    mv.setViewName("addCitizen");
    return mv;
}

@RequestMapping("/viewCitizen")
public ModelAndView ViewCitizens(HttpServletRequest request,
HttpServletResponse response) {
    ModelAndView mv = new ModelAndView();
    List<Citizen> citizens = citizenService.getAllCitizens(); //
Retrieve all centers from the service
    int citizenCount = citizens.size();
    mv.addObject("citizens", citizens);
    mv.addObject("citizenCount", citizenCount > 0 ? citizenCount
: 0);

    mv.setViewName("viewCitizen");
    return mv;
}

@RequestMapping("/editCitizen")
public ModelAndView editCitizen(@RequestParam("id") int id
,HttpServletRequest request, HttpServletResponse response) {
    ModelAndView mv = new ModelAndView();
    Citizen citizen = citizenService.getCitizenById(id);
    List<VaccinationCenter> vaccinationCenters =
vaccinationService.getAllCenters();
    List<VaccinationCenter> inactiveCenters = new
ArrayList<>();
    for (VaccinationCenter center : vaccinationCenters) {
        String status = center.getStatus();
        if (status == null) {
            inactiveCenters.add(center);
        }
    }
    mv.addObject("centers", inactiveCenters);

    mv.addObject("citizen", citizen);
    mv.setViewName("editCitizen");
    return mv;
}

@RequestMapping("/updateCitizen")

```

```

public ModelAndView updateCitizen(
    @RequestParam("id") int id,
    @RequestParam("name") String name,
    @RequestParam("centerName") String centerName,
    @RequestParam("city") String city,
    @RequestParam("doses") int doses,
    HttpServletRequest request,
    HttpServletResponse response,
    RedirectAttributes redirectAttributes
) {
    ModelAndView mv = new ModelAndView();
    Citizen citizen = citizenService.getCitizenById(id);
    if (citizen != null) {
        citizen.setName(name);
        citizen.setCity(city);

        // Prevent changing the centerName
        if
(!centerName.equals(citizen.getCenter().getCenterName())) {
            String message = "You cannot change the clinic.";
            redirectAttributes.addFlashAttribute("message",
message);

            return mv;
        }

        citizen.setDoses(doses);

        // Update vaccination status based on doses
        if (doses == 0) {
            citizen.setVaccinationStatus("Not Vaccinated");
        } else if (doses == 1) {
            citizen.setVaccinationStatus("First Dose");
        } else if (doses == 2) {
            citizen.setVaccinationStatus("Fully Vaccinated");
        }

        citizenService.updateCitizen(citizen);
        mv.setViewName("redirect:/admin/citizen/viewCitizen");
        String message = name+" IS UPDATED";
        redirectAttributes.addFlashAttribute("message",
message);
    } else {

```

```

mv.setViewName("redirect:/admin/vaccination/editCenter?id=" + id);
    redirectAttributes.addFlashAttribute("message",
"Failed to update citizen.");
    }

    return mv;
}

@RequestMapping("/deleteCitizen")
    public ModelAndView deleteCitizen(@RequestParam("id") int id,
HttpServletRequest request, HttpServletResponse response,
RedirectAttributes redirectAttributes) {
    ;
    citizenService.deleteCitizenById(id);
    ModelAndView mv = new ModelAndView();
    mv.setViewName("redirect:/admin/citizen/viewCitizen");
    redirectAttributes.addFlashAttribute("message", "CITIZEN
DELETED");
    return mv;
}

@RequestMapping("/insertCitizen")
    public ModelAndView insertCitizen(HttpServletRequest request,
HttpServletResponse response, Model model) {
    ModelAndView mv = new ModelAndView();
    Citizen citizen = new Citizen();
    String name = request.getParameter("name");
    String city = request.getParameter("city");
    String centerName = request.getParameter("centerName");

    if (name == null || name.isEmpty() || city == null ||
city.isEmpty() || centerName == null || centerName.isEmpty()) {
        mv.setViewName("addCitizen");
        mv.addObject("message", "Invalid or fill every block ");
    } else {
        try {
            citizen.setName(name);
            citizen.setCity(city);
            String vaccinationStatus = "Not Vaccinated";

            citizen.setVaccinationStatus(vaccinationStatus);
            VaccinationCenter center = new VaccinationCenter();
            center.setCenterName(centerName);
            String status = "active";

```

```

        center.setStatus(status);
        center.setCity(city);
        citizen.setCenter(center);
        citizenService.saveCitizen(citizen);

mv.setViewName("redirect:/admin/citizen/viewCitizen");
        mv.addObject("citizen", citizen);
    } catch (Exception e) {
        mv.setViewName("addCitizen");
        mv.addObject("message", "Failed to save Citizen");
    }
}

return mv;
}

@RequestMapping("/viewCitizenById")
public ModelAndView viewCitizen(@RequestParam("id") int id) {
    ModelAndView mv = new ModelAndView();
    Citizen citizen = citizenService.getCitizenById(id);
    if (citizen != null) {
        mv.addObject("citizen", citizen);
        mv.setViewName("viewCitizenById");
    } else {
        mv.setViewName("error");
        mv.addObject("message", "Citizen not found");
    }

    return mv;
}

}

} }

package com.VaccinationCenter.Controller;

import java.util.logging.Logger;

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

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

```

```

@Controller
public class HomeController {

    Logger log = Logger.getAnonymousLogger();

    @RequestMapping("/")
    public ModelAndView basepage(HttpServletRequest request,
    HttpServletResponse response) {
        ModelAndView mv = new ModelAndView();
        log.info("login page");

        mv.setViewName("redirect:/admin/login");
        return mv;
    }
}

package com.VaccinationCenter.Controller;

import java.util.List;
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.dao.DataIntegrityViolationException;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;

import com.VaccinationCenter.Entities.Admin;
import com.VaccinationCenter.Entities.VaccinationCenter;
import com.VaccinationCenter.Service.AdminService;
import com.VaccinationCenter.Service.VaccinationCenterService;
@Controller
@RequestMapping("/admin")
public class LoginController {

    @Autowired
    AdminService service;

    @Autowired
    VaccinationCenterService vaccinationService;

```

```

    @RequestMapping("/login")
    public ModelAndView basepage(HttpServletRequest request,
        HttpServletResponse response) {
        ModelAndView mv = new ModelAndView();

        mv.setViewName("login");
        return mv;
    }

    @RequestMapping("/register")
    public ModelAndView register(HttpServletRequest request,
        HttpServletResponse response) {
        ModelAndView mv = new ModelAndView();
        mv.setViewName("register");
        return mv;
    }

    @RequestMapping("/logout")
    public ModelAndView Logout(HttpServletRequest request,
        HttpServletResponse response) {
        ModelAndView mv = new ModelAndView();
        HttpSession session = request.getSession(false); // Retrieve
the existing session (if any)

        if (session != null) {
            session.invalidate(); // Invalidate the session if it
exists
        }

        mv.addObject("message", "Your session has been logged out.");
        mv.setViewName("login");

        return mv;
    }

    @RequestMapping("/insert")
    public ModelAndView insert(HttpServletRequest request,
        HttpServletResponse response, RedirectAttributes redirectAttributes) {
        ModelAndView mv = new ModelAndView();
        Admin admin = new Admin();
        String name = request.getParameter("name");
        String email = request.getParameter("email");
        String password = request.getParameter("password");

```

```

        if (name.isEmpty() || name == null || email == null ||
password == null || email.isEmpty() || password.isEmpty()) {
            mv.setViewName("register");
            mv.addObject("message", "Invalid name or password");
        } else {
            try {
                admin.setName(name);
                admin.setEmail(email);
                admin.setPassword(password);
                service.addAdmin(admin);
                mv.setViewName("redirect:/");
                mv.addObject(admin);
            } catch (DataIntegrityViolationException e) {
                mv.setViewName("register");
                mv.addObject("message", "Email already exists");
            } catch (Exception e) {
                mv.setViewName("register");
                mv.addObject("message", "Failed to save admin");
            }
        }

        return mv;
    }
}

```

```

@RequestMapping("/dashboard")
public ModelAndView DashboardLogin(HttpServletRequest request,
HttpServletResponse response) {
    ModelAndView mv = new ModelAndView();
    String email = request.getParameter("email");
    String password = request.getParameter("password");

    if (email == null || email.isEmpty() && password.isEmpty())
    {
        mv.setViewName("redirect:/"); //homecontroller login
        String message = "invalid";
        mv.addObject("message", message);
    } else {
        //check login by email and password
        Admin authenticatedAdmin =
service.findByEmailAndPassword(email, password);
        if (authenticatedAdmin != null) {
            Admin admin = service.getAdminByEmail(email);

```



```

        mv.setViewName("dashboard");
        HttpSession httpsession = request.getSession();
        httpsession.setAttribute("userid",
admin.getName());
        mv.addObject("admin",admin);
    } else {
        mv.setViewName("login");
        String message = "Invalid email or password";
        mv.addObject("message", message);
    }
    }
    return mv;
}

@RequestMapping("viewCenter")
public ModelAndView ViewCenter(HttpServletRequest request,
HttpServletResponse response) {
    ModelAndView mv = new ModelAndView();
    List<VaccinationCenter> centers =
vaccinationService.getAllCenters(); // Retrieve all centers from the
service
    mv.addObject("centers", centers); // Pass the list of centers
to the view
    mv.setViewName("viewCenter");
    return mv;
}
}

package com.VaccinationCenter.Controller;
import java.util.ArrayList;
import java.util.List;
import java.util.logging.Logger;

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.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;

import com.VaccinationCenter.Entities.Citizen;

```

```

import com.VaccinationCenter.Entities.VaccinationCenter;
import com.VaccinationCenter.Service.CitizenService;
import com.VaccinationCenter.Service.VaccinationCenterService;

@Controller
@RequestMapping("/admin/vaccination")
public class VaccinationCenterController {

    @Autowired
    VaccinationCenterService vaccinationService;
    @Autowired
    CitizenService citizenService;

    @RequestMapping("/addCenter")
    public ModelAndView AddNewCenter(HttpServletRequest request,
    HttpServletResponse response) {
        ModelAndView mv = new ModelAndView();
        mv.setViewName("addCenter");
        return mv;
    }

    @RequestMapping("/viewCenterList")
    public ModelAndView viewCenter() {
        ModelAndView mv = new ModelAndView();

        List<VaccinationCenter> vaccinationCenters =
vaccinationService.getAllCenters();

        // Separate vaccination centers into different categories
        List<VaccinationCenter> activeCenters = new ArrayList<>();
        List<VaccinationCenter> inactiveCenters = new ArrayList<>();

        for (VaccinationCenter center : vaccinationCenters) {
            String status = center.getStatus();
            if (status == null) {
                inactiveCenters.add(center);
            }
        }
        mv.setViewName("viewCenter");
        mv.addObject("centers", inactiveCenters);
        int centerCount = inactiveCenters.size();
        mv.addObject("centerCount", centerCount > 0 ? centerCount :
0);

        return mv;
    }
}

```



```

        center.setCity(city);
        vaccinationService.AddCenter(center);

mv.setViewName("redirect:/admin/vaccination/viewCenterList");
        VaccinationCenter vaccinationCenter =
vaccinationService.getCenterByName(centerName);
        mv.addObject(vaccinationCenter);
    } catch (Exception e) {
        mv.setViewName("addCenter");
        mv.addObject("message", "Failed to save
Center");
    }
}

return mv;
}

@RequestMapping("/editCenter")
public ModelAndView editCenter(@RequestParam("id") int id
,HttpServletRequest request, HttpServletResponse response) {
    ModelAndView mv = new ModelAndView();
    VaccinationCenter center =
vaccinationService.getbyid(id);
    mv.addObject("center", center);
    mv.setViewName("editCenter");
    return mv;
}

@RequestMapping("/deleteCenter")
public ModelAndView deleteCenter(@RequestParam("id") int id,
HttpServletRequest request, HttpServletResponse
response,RedirectAttributes redirectAttributes) {
    vaccinationService.deletebyid(id);
    ModelAndView mv = new ModelAndView();

mv.setViewName("redirect:/admin/vaccination/viewCenterList");
    String message = " IS DELETED";
    redirectAttributes.addFlashAttribute(id + message);
    return mv;
}

@RequestMapping("/updateCenter")
public ModelAndView updateCenter(@RequestParam("id") int id
,@RequestParam("centerName") String centerName

```

```

, @RequestParam("city") String city, HttpServletRequest request,
HttpServletRequest response, RedirectAttributes redirectAttributes) {
    ModelAndView mv = new ModelAndView();
    VaccinationCenter center =
vaccinationService.getById(id);
    if (center != null) {
        center.setCenterName(centerName);
        center.setCity(city);
        vaccinationService.updateCenter(center);

mv.setViewName("redirect:/admin/vaccination/viewCenterList");
        String message = centerName + " IS UPDATED";
        redirectAttributes.addFlashAttribute("message" + message);
    } else {

mv.setViewName("redirect:/admin/vaccination/editCenter?id=" + id); //
Redirect to the editCenter request mapping with the id parameter
        mv.addObject("message", "Failed to Update Center");
    }
    return mv;
}

}

package com.VaccinationCenter.Entities;

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

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

@Data
@AllArgsConstructor
@NoArgsConstructor
@Entity
public class Admin {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Integer id;

    private String name;

    @Column(unique = true)

```

```

    private String email;

    @Column(nullable = false)
    private String password;

}

package com.VaccinationCenter.Entities;
import javax.persistence.CascadeType;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.OneToOne;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

@Data
@Entity
@AllArgsConstructor
@NoArgsConstructor
public class Citizen {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;
    private String name;
    private String city;
    private int doses;
    private String vaccinationStatus;

    @OneToOne(cascade = CascadeType.ALL)
    @JoinTable(name="Citizen_vaccination",
        //joinColumns relation is going to specify the present table
        identity
        joinColumns = {@JoinColumn(name="cid",referencedColumnName
        ="id")},
        //inverseJoinColumns establish the relation with the aggregate
        class - foreign key
        inverseJoinColumns =
        {@JoinColumn(name="vid",referencedColumnName ="id")})
    )

```

```

        private VaccinationCenter center;
        @Override
        public String toString() {
            return "Citizen [name=" + name + ", city=" + city + "]";
        }
    }

package com.VaccinationCenter.Entities;

import java.util.List;

import javax.persistence.CascadeType;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.OneToOne;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

@Data
@Entity
@AllArgsConstructor
@NoArgsConstructor
public class VaccinationCenter {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;
    private String centerName;
    private String city;
    //check status
    private String status;

    @OneToOne(mappedBy = "center")
    private Citizen citizen;

    @Override
    public String toString() {
        return "VaccinationCenter [centerName=" + centerName + "]";
    }
}

```

```

package com.VaccinationCenter.Repository;

import java.util.List;

//import java.util.List;

import org.springframework.data.jpa.repository.Query;
import org.springframework.data.repository.CrudRepository;
import org.springframework.data.repository.query.Param;

import com.VaccinationCenter.Entities.Admin;
public interface AdminRepository extends CrudRepository<Admin,
Integer> {

    public Admin findByName(String name);

    @Query("SELECT r FROM Admin r WHERE r.email = :email AND
r.password = :password")
    public boolean checkLoginRepo(@Param("email")String email, String
password);

    Admin findByEmailAndPassword(String email, String password);

    List<Admin> findByEmail(String email);

}

```

```

package com.VaccinationCenter.Repository;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;

import com.VaccinationCenter.Entities.Citizen;

public interface CitizenRepository extends JpaRepository<Citizen,
Integer> {

    List<Citizen> findByCenterCenterName(String centerName);

}
package com.VaccinationCenter.Repository;

import java.util.List;

```



```

import org.springframework.data.repository.CrudRepository;

import com.VaccinationCenter.Entities.VaccinationCenter;

public interface VaccinationCenterRepository extends
CrudRepository<VaccinationCenter, Integer> {

    List<VaccinationCenter> findByCenterName(String centerName);

    List<VaccinationCenter> findAll();
}
package com.VaccinationCenter.Service;

import java.util.List;
import java.util.logging.Logger;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.web.bind.annotation.RequestParam;

import com.VaccinationCenter.Entities.Admin;
import com.VaccinationCenter.Repository.AdminRepository;

@Service
public class AdminService {

    @Autowired
    AdminRepository adminRepo ;

    public void addAdmin(Admin admin){
        adminRepo.save(admin);
    }

    public boolean checkLogin(@RequestParam("email") String email ,
@RequestParam("password") String password) {
        return adminRepo.checkLoginRepo(email, password);
    }

    public Admin getAdminByEmail(String email) {
        List<Admin> admins = adminRepo.findByEmail(email);
        if (!admins.isEmpty()) {
            return admins.get(0); // Returning the first admin from
the list

```

```

    }
    return null; // No admin found with the given email
}

    public Admin findByEmailAndPassword(String email,String password)
{
    Admin authenticatedAdmin =
adminRepo.findByEmailAndPassword(email,password);

    return authenticatedAdmin;
}
}
package com.VaccinationCenter.Service;

import java.util.List;
import java.util.logging.Logger;

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

import com.VaccinationCenter.Entities.Citizen;
import com.VaccinationCenter.Entities.VaccinationCenter;
import com.VaccinationCenter.Repository.CitizenRepository;

@Service
public class CitizenService {
    @Autowired
    private CitizenRepository citizenRepository;

    public Citizen saveCitizen(Citizen citizen) {
        return citizenRepository.save(citizen);
    }

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

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

    public void addCitizen(Citizen citizen) {

```

```

        citizenRepository.save(citizen);
    }
    public Citizen getCitizenById(int id) {
        return citizenRepository.findById(id)
            .orElseThrow(() -> new
IllegalArgumentException("Invalid citizen Id:" + id));
    }

    public void deleteCitizenById(int id) {
        Citizen citizen = getCitizenById(id);
        citizenRepository.delete(citizen);
    }

    public Citizen getCitizensCenterByCenterName(String
centerName) {
        List<Citizen> citizen =
citizenRepository.findByCenterCenterName(centerName);
        if (!citizen.isEmpty()) {
            return citizen.get(0); // Returning the first admin
from the list
        }
        return null; // No admin found with the given email
    }
}
package com.VaccinationCenter.Service;

import java.util.List;
import java.util.Optional;
import java.util.logging.Logger;

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

import com.VaccinationCenter.Entities.VaccinationCenter;
import com.VaccinationCenter.Repository.VaccinationCenterRepository;

@Service
public class VaccinationCenterService {

    @Autowired
    VaccinationCenterRepository vaccinationRepo;

```

```

    public void AddCenter(VaccinationCenter center){
        vaccinationRepo.save(center);
    }
    public VaccinationCenter getCenterByName(String centerName) {
        List<VaccinationCenter> centers =
vaccinationRepo.findByCenterName(centerName);
        if (!centers.isEmpty()) {
            return centers.get(0); // Returning the first vaccination
center from the list
        }
        return null; // no vaccination center found.
    }

    public List<VaccinationCenter> getAllCenters() {
        return vaccinationRepo.findAll(); // Retrieve all centers
    }

    public VaccinationCenter getbyid(int id) {

        Optional<VaccinationCenter> optionalCenter =
vaccinationRepo.findById(id);
        return optionalCenter.orElse(null);

    }
    public void deletebyid(int id) {

        vaccinationRepo.deleteById(id);
    }
    public void updateCenter(VaccinationCenter center) {
        vaccinationRepo.save(center);
    }
}

```

```

server.port=8080
spring.jpa.hibernate.ddl-auto=update
spring.datasource.url=jdbc:mysql://localhost:3306/vaccination
spring.datasource.username=root
spring.datasource.password=Nisha@1623

```

```

logging.level.org.springframework.web: DEBUG
spring.mvc.view.prefix=/pages/
spring.mvc.view.suffix=.jsp

```

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>ADD VACCINATION CENTER</title>
</head>
<body>

<form action="insertCenter">
<h2 align="center" ><b>ADD NEW VACCINATION CENTER</b></h2>
    <table class="container">

        <tbody>

            <tr>
                <td><label for="centerName">CENTER NAME:
</label></td>
                <td><input type="text" name="centerName"
placeholder="ENTER CLINIC NAME" ><br></td>

            </tr>
            <tr>
                <td><label for="city">SELECT CITY:</label></td>
                <td><select name="city" class="box" >
                    <option value="">--Please choose an city--</option>
                    <option value="Bengalore">&u>Bangalore</option>
                    <option value="Chennai">&u>Chennai</option>
                    <option value="Hyderbad">&u>Hyderbad</option>
                    <option value="Pune">&u>Pune</option>
                    <option value="Madurai">&u>Madurai</option>
                    <option value="Punjab">&u>Punjab</option>
                    <option value="Ladak">&u>Ladak</option>
                    <option value="Coimbatore">&u>Coimbatore</option>
                </select></td>
            </tr>
        </tbody>
    </table>
    <table>
        <tr>
            <th></th>
            <th><input type="submit" value="Submit"/></th>
        </tr>
    </table>

```

```

        </tr>
    </tfoot>
</table>

</form>
<div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <title>Add citizen</title>

</head>
<body>

<form action="insertCitizen" method="POST">
    <h2 align="center"><b>ADD NEW CITIZEN</b></h2>
    <table class="container">

        <tbody>

            <tr>
                <td><label for="name">Citizen Name:</label></td>
                <td><input type="text" name="name" placeholder="ENTER
NAME"><br></td>

            </tr>
            <tr>
                <td><label for="city">CITIZEN CITY:</label></td>
                <td>
                    <select name="city" id="city">
                        <option value="">--Please choose a city--</option>
                        <option value="Bangalore">Bangalore</option>
                        <option value="Chennai">Chennai</option>
                        <option value="Hyderabad">Hyderabad</option>
                        <option value="Pune">Pune</option>
                    </select>
                </td>
            </tr>
        </tbody>
    </table>
</form>

```

```

        <option value="Madurai">Madurai</option>
        <option value="Punjab">Punjab</option>
        <option value="Ladakh">Ladakh</option>
        <option value="Coimbatore">Coimbatore</option>
    </select>
</td>
</tr>
<tr>
    <td><label for="centerName">CITIZEN CLINIC:</label></td>
    <td>
        <select name="centerName" id="centerName">
            <option value="">--Please choose a clinic--
</option>
            <c:forEach items="${centers}" var="center">
                <option
value="${center.centerName}">${center.centerName}</option>
            </c:forEach>
        </select>
    </td>
</tr>
</tbody>
<tfoot>
<tr>
    <th></th>
    <th><input type="submit" value="Submit"/></th>
</tr>
</tfoot>
</table>

<div class="error-message" align="center">
<c:if test="${not empty message}">
    <span style="color: red;">${message}</span>
</c:if>
</div>
</form>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Dashboard</title>
</head>

```

```

<body>

<div align="right">
    <% String userid = (String) session.getAttribute("userid");%>
    <p align="Right">User Name:<span style="color:#FF0066"> <%=
userid %></span><p>
    <a href="<c:url value= '/admin/logout' />">logout</a>
</div>

    <h1 align="center">VACCINATION CENTER | WELCOME</h1>

<hr><br>
    <div class="Link-container">
        <ul>
            <li><a href="<c:url value= '/admin/citizen/viewCitizen'
/>?userid=${userid}">Citizens</a></li>
            <li><a href="<c:url
value= '/admin/vaccination/viewCenterList'
/>?userid=${userid}">Vaccination Centers</a></li>
        </ul>
    </div><br>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8" %>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Edit Center</title>

</head>
<body>

    <h2 align="center" ><b>Edit
Center</b></h2>
    <form action="updateCenter" method="post">
        <input type="hidden" name="id" value="${center.id}">
        <table class="container">

            <tbody>

                <tr>
                    <td><label for="centerName">CENTER NAME:
</label></td>

```



```

        <td><input type="text" name="centerName"
value="${center.centerName}" placeholder="ENTER CLINIC NAME"
><br></td>
    </tr>
    <tr>
        <td><label for="city">SELECT CITY:</label></td>
        <td><select name="city" id="city">
            <option value="city">${center.city}</option>
            <option value="Bengalore">Bengalore</option>
            <option value="Chennai">Chennai</option>
            <option value="Hyderabad">Hyderabad</option>
            <option value="Pune">Pune</option>
            <option value="Madurai">Madurai</option>
            <option value="Punjab">Punjab</option>
            <option value="Ladak">Ladak</option>
            <option value="Coimbatore">Coimbatore</option>
        </select></td>
    </tr>
</tbody>
<tfoot>
    <tr>
        <td></td>
        <td><input type="submit" value="Update"/></td>
    </tr>
</tfoot>
</table>

</form>

<div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>

</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"
%>
<!DOCTYPE html>
<html>
<head>

```

```

<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<h1 align="center">EDIT CITIZEN</h1>
<form action="updateCitizen">
    <input type="hidden" name="id" value="${citizen.id}">

    <table class="container">

        <tbody>

            <tr>
                <td><label for="name">Citizen Name:</label></td>
                <td><input type="text" name="name"
value="${citizen.name}" placeholder="ENTER NAME" ><br></td>
            </tr>
            <tr>
                <td><label for="city">CITIZEN CITY:</label></td>
                <td><select name="city" id="city">
                    <option
value="${citizen.city}">${citizen.city}</option>
                    <option value="Bengalore">Bengalore</option>
                    <option value="Chennai">Chennai</option>
                    <option value="Hyderbad">Hyderbad</option>
                    <option value="Pune">Pune</option>
                    <option value="Madurai">Madurai</option>
                    <option value="Punjab">Punjab</option>
                    <option value="Ladak">Ladak</option>
                    <option value="Coimbatore">Coimbatore</option>
                </select></td>
            </tr>

            <tr>
                <td><label for="doses">No. Of Doses</label></td>
                <td><select name="doses" id="doses">
                    <option
value="${citizen.doses}">${citizen.doses}</option>
                    <option value="0">None</option>
                    <option value="1">1</option>
                    <option value="2">2</option>
                </select></td>
            </tr>
        </tbody>
    </table>
</form>

```

```

        </select></td>
        </tr>
        <tr>
        <td><label for="centerName">CLINIC:</label></td>
        <td>
        <select name="centerName" id="centerName">
        <option
value="${citizen.center.centerName}">${citizen.center.centerName}</opt
ion>
        <c:forEach items="${centers}" var="center">

        <option
value="${center.centerName}">${center.centerName}</option>
        </c:forEach>
        </select>
        </td>
        </tr>
    </tbody>
    <tfoot>
    <tr>
        <th></th>
        <th><input type="submit" value="Submit"/></th>

    </tr>
    </tfoot>
</table>

    <div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>
</form>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login Page</title>

</head>
<body>

```

```

<header><h1>VACCINATION CENTER LOGIN</h1></header>
<hr>
<form action="dashboard" method="post">

<h2><b>Login</b></h2>
    <table>

        <tbody>
            <tr>
                <td><label for="email">Email:</label></td>
                <td><input type="email" name="email"
placeholder="email" ><br></td>
            </tr>
            <tr>
                <td><label for="password">Enter
Password:</label></td>
                <td><input type="password" name= "password"
placeholder="Enter Password"><br></td>
            </tr>
        </tbody>
        <tfoot>
            <tr>
                <td></td><td><input type="submit" value="LOGIN"
/></td>
            </tr>
        </tfoot>
    </table>

</form>

<div class="error-message">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>

<div>
<form action="register">
    <button>REGISTER</button>
</form>
</div>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

```

```

    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Registration</title>

</head>
<body>

<form action="insert" method="post">
<h2 align="center" ><b>REGISTRATION</b></h2>
    <table class="container">

        <tbody>
            <tr>
                <td><label for="name">NAME:</label></td>
                <td><input name="name" placeholder="Your Name"
type="text"/><br></td>
            </tr>
            <tr>
                <td><label for="email">EMAIL:</label></td>
                <td><input type="email" name="email"
placeholder="email" ><br></td>
            </tr>
            <tr>
                <td><label for="password">PASSWORD:</label></td>
                <td><input type="password" name="password"
placeholder="Enter Password"><br></td>
            </tr>
        </tbody>
        <tfoot>
            <tr>
                <th></th>
                <th><input type="submit" value="Submit"/></th>
            </tr>
        </tfoot>
    </table>

</form>
<div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>

```

```

        </c:if>
    </div>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1" %>
<!DOCTYPE html>
    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<html>
<head>
<meta charset="ISO-8859-1">
<title>VIEW ALL CENTER</title>

</head>
<body>

        <%@include file="dashboard.jsp" %>

        <h2 align="center"><i>VACCINATION CENTER</i></h2>

        <table>
            <thead>
                <tr>
                    <td colspan="4">
                        <form id="form-1" action="addCenter">
                            <input type="submit" value="ADD NEW CENTER" id="button-1"
/>
                        </form>
                    </td>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <th>ID</th>
                    <th>NAME</th>
                    <th>City</th>
                    <th>Action</th>
                </tr>
                <c:forEach items="${centers}" var="center">
                    <tr>
                        <td>${center.id}</td>
                        <td>${center.centerName}</td>
                        <td>${center.city}</td>
                        <td class="view-edit-delete">
                            <a href="<c:url value='viewCenterById'
/>?id=${center.id}&centerName=${ center.centerName}">View</a>

```

```

                <a href="<c:url
value='editCenter?id=${center.id}' />">Edit</a>
                <a href="<c:url
value='deleteCenter?id=${center.id}' />">Delete</a>
            </td>
        </tr>
    </c:forEach>
</tbody>
<tfoot>
<tr>
    <td colspan="4">Total ${centerCount} Vaccination Centers
found.</td>
</tr>
</tfoot>
</table>

```

```

    <div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>
</body>
</html>

```

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1" %>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <title>VIEW CITIZEN BY ID</title>

```

```

</head>
<body>
<%@include file="dashboard.jsp" %>

```

```

<h1 class="head1" align="center">CENTER INFORMATION</h1>
<table border="1" align="center">
    <!-- Display center details -->
    <tr>
        <td>ID</td>
        <td>${center.id}</td>
    </tr>
    <tr>
        <td>Name</td>

```

```

        <td>${center.centerName}</td>
    </tr>
    <tr>
        <td>City</td>
        <td>${center.city}</td>
    </tr>
</table>
<h2 align="center">ALL CITIZEN</h2>
<table border="1" align="center">
<!-- Iterate over citizens list -->
<!-- Display citizen details -->
<c:forEach items="${citizens}" var="citizen" >
    <c:if test="${center.centerName ==
citizen.center.centerName}">
        <tr>
            <td>ID</td>
            <td>${citizen.id}</td>
        </tr>
        <tr>
            <td>Name</td>
            <td>${citizen.name}</td>
        </tr>
        <tr>
            <td>Action</td>
            <td><a href="<c:url
value='/admin/citizen/viewCitizenById?id=${citizen.id}'/>">View</a></td>
        </tr>
    </c:if>
    <br>
</c:forEach>
</table>

<!-- Error message display -->
<div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>

```



```

<head>
<meta charset="ISO-8859-1">
<title>VIEW CITIZEN</title>
</head>
<body>
    <!-- include dashboard -->
    <%@include file="dashboard.jsp" %>

    <h2 align = "center"><i>CITIZENS</i></h2>

    <table >
        <thead>
            <tr>
                <td colspan="7">
                    <form id="form-1" action="addCitizen" method="post">
                        <input type="submit" value="ADD NEW CITIZENS" id="button-
1"/>
                    </form>
                </td>
            </tr>
        </thead>
        <tbody>
            <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>
            <c:forEach items="${citizens}" var="citizen" varStatus="loop">
                <tr>
                    <td>${citizen.id}</td>
                    <td>${citizen.name}</td>
                    <td>${citizen.city}</td>
                    <td>${citizen.doses}</td>
                    <td>${citizen.vaccinationStatus}</td>
                    <td>${citizen.center.centerName}</td>
                    <td class="view-edit-delete">
                        <a href="<c:url
value='viewCitizenById?id=${citizen.id}' />">View</a>
                        <a href="<c:url
value='editCitizen?id=${citizen.id}' />">Edit</a>

```

```

                <a href="<c:url
value='deleteCitizen?id=${citizen.id}' />">Delete</a>

            </td>
        </tr>
    </c:forEach>
</tbody>
<tfoot>
<tr>
    <td colspan="7"> Total ${citizenCount} citizens
found.</td>
</tr>
</tfoot>
</table>

<div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>

</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <title>VIEW CITIZEN BY ID</title>

</head>
<body>

<%@include file="dashboard.jsp" %>

    <h1 align="center">Citizen Information</h1>
    <table >
        <tr>
            <td>ID</td>
            <td>${citizen.id}</td>

```

```

    </tr>
    <tr>
        <td>NAME</td>
        <td>${citizen.name}</td>
    </tr>
    <tr>
        <td>CITY</td>
        <td>${citizen.city}</td>
    </tr>
    <tr>
        <td>NO. OF DOSES</td>
        <td>${citizen.doses}</td>
    </tr>
    <tr>
        <td>VACCINATION STATUS</td>
        <td>${citizen.vaccinationStatus}</td>
    </tr>
    <tr>
        <td>VACCINATION CENTER</td>
        <td>
            <a href="<c:url value='/admin/vaccination/viewCenterById'
/>?id=${citizen.center.id}&centerName=${
citizen.center.centerName}">${citizen.center.centerName}</a>
        </td>
    </tr>
</table>

<div class="error-message" align="center">
    <c:if test="${not empty message}">
        <span style="color: red;">${message}</span>
    </c:if>
</div>
</body>
</html>

```