**JSP Pages**

Index Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Login</title>

</head>

<body>

<div style="text-align:*center*;border:*1px solid black*">

<center><h2>Login Page</h2></center>

<form action=*"adminlogin"* method=*"get"*>

<div id=*"lable"*>

<label for=*"username"*>Username :</label>

<input type=*"text"* name=*"username"* placeholder=*"Username"* autofocus=*"autofocus"*>

</div><br><br>

<div id=*"lable"*>

<label for=*"Password"*>Password :</label>

<input type=*"password"* name=*"password"* placeholder=*"Password"* >

</div><br><br>

<div id=*"lable"*>

<button>Login</button>

</div><br>

<a href=*"register"*>Register</a><br><br>

</form>

<p style="color:*green*">${message}</p>

</div>

</body>

</html>

Admin Index Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Admin Index</title>

</head>

<body>

<%@ include file=*"header.jsp"* %>

<h2>Welcome Admin: <%

out.print(session.getAttribute("username"));

%></h2>

</body>

</html>

Header File

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/sql"* prefix=*"sql"*%>

<style>

**a**{

color:*blue*;

}

</style>

<%

**if**(session.getAttribute("username")==**null** ){

response.sendRedirect("index");

}

%>

<a href=*"adminindex"*>Home</a>&nbsp;&nbsp;&nbsp;

<a href=*"citizens"*>Citizens</a>&nbsp;&nbsp;&nbsp;

<a href=*"vaccinationCenter"*>Vaccination Center</a>&nbsp;&nbsp;&nbsp;

<a href=*"logout"*>Logout</a>&nbsp;&nbsp;&nbsp;

<a>Welcome,admin <% out.println(session.getAttribute("username")); %></a><br><br>

Registration Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Register Page</title>

</head>

<body>

<div style="text-align:*center*;border:*1px solid black*">

<center><h2>Register Page</h2></center>

<form action=*"adminregister"* method=*"post"*>

<div id=*"lable"*>

<label for=*"username"*>Username :</label>

<input type=*"text"* name=*"username"* placeholder=*"Username"* autofocus=*"autofocus"*>

</div><br><br>

<div id=*"lable"*>

<label for=*"Email"*>Email :</label>

<input type=*"email"* name=*"Email"* placeholder=*"Email"*>

</div><br><br>

<div id=*"lable"*>

<label for=*"Password"*>Password :</label>

<input type=*"password"* name=*"password"* placeholder=*"Password"*>

</div><br>

<div id=*"lable"*>

<button>Register</button>

</div><br>

</form>

<a href=*"login"*>Login Page</a>

</div>

</body>

</html>

Citizen Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Citizens</title>

</head>

<body>

<%@ include file=*"header.jsp"* %><br>

<table border=*1* style="text-align:*center*">

<tr>

<

<th><a href=*"Add-citizens"*>Add Citizens</a></th>

</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>

<c:forEach var=*"data"* items=*"*${Data}*"*>

<tr>

<td>${data.id}</td>

<td>${data.name}</td>

<td>${data.city}</td>

<td>${data.doses}</td>

<c:choose>

<c:when test=*"*${data.doses==2}*"*>

<td>Fully Vaccinated</td>

</c:when>

<c:otherwise>

<td>Not Vaccinated</td>

</c:otherwise>

</c:choose>

<td>${data.getVaccinationCenter\_Id().getName()}</td>

<th>

<a href=*"citizen-view?id=*${data.id}*&name=*${data.name}*&city=*${data.city}*&doses=*${data.doses}*"*>View</a>&nbsp;&nbsp;

<a href=*"citizen-Edit?id=*${data.id}*&name=*${data.name}*&city=*${data.city}*&doses=*${data.doses}*"*>Edit</a>&nbsp;&nbsp;

<a href=*"citizen-delete?id=*${data.id}*"*>Delete</a>

</th>

</tr>

</c:forEach>

</table>

</body>

</html>

Citizen view Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>View Citizens</title>

</head>

<body>

<%@include file=*"header.jsp"* %><br>

<div style="border:*2px solid black*;width:*60vh*;padding: *30px*; margin:*20px*">

<%

String Username = request.getParameter("name");

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

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

**int** doses = Integer.parseInt(request.getParameter("doses"));

%>

<h1>

<%out.print(Username);%>

</h1><hr><br>

<p><b>ID: </b><%out.print(id); %></p>

<p><b>City: </b><%out.print(City); %></p>

<p><b>Number Of Doses: </b><%out.print(doses); %></p>

<p><b>Vaccination Status: </b><% **if**(doses==2){

out.print("Fully Vaccinated");

}**else**{

out.print("Not Vaccinated");

}%></p>

</div>

</body>

</html>

Citizen Edit Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>citizen-Edit</title>

</head>

<body>

<%@ include file=*"header.jsp"* %><br>

<%

String Username = request.getParameter("name");

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

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

**int** doses = Integer.parseInt(request.getParameter("doses"));

%>

<div style="border:*1px solid black*;text-align:*center*">

<h2>Edit Citizen</h2>

<form action=*"editcitizen"* method=*"get"*>

<input type=*"hidden"* name=*"id"* value=*"*<%out.print(id);%>*"*>

<div>

<label for=*"username"*>Username</label>

<input type=*"text"* name=*"name"* placeholder=*"username"* value=*"*<%out.print(Username);%>*"*>

</div><br><br>

<div>

<label for=*"city"*>City :</label>

<select name=*"city"*>

<option value=*"*<%out.print(City);%>*"*><%out.print(City);%></option>

<option value=*"Andhra Pradesh"*>Amaravati</option>

<option value=*"Arunachal Pradesh"*>Itanagar</option>

<option value=*"Assam"*>Dispur</option>

<option value=*"Bihar"*>Patna</option>

<option value=*"Chhattisgarh"*>Raipur</option>

<option value=*"Goa"*>Panaji</option>

<option value=*"Gujarat"*>Gandhinagar</option>

<option value=*"Haryana"*>Chandigarh</option>

<option value=*"Himachal Pradesh"*>Shimla</option>

<option value=*"Jharkhand"*>Ranchi</option>

<option value=*"Karnataka"*>Bengaluru</option>

<option value=*"Kerala"*>Thiruvananthapuram</option>

<option value=*"Madhya Pradesh"*>Bhopal</option>

<option value=*"Maharashtra"*>Mumbai</option>

<option value=*"Manipur"*>Imphal</option>

<option value=*"Meghalaya"*>Shillong</option>

<option value=*"Mizoram"*>Aizawl</option>

<option value=*"Nagaland"*>Kohima</option>

<option value=*"Odisha"*>Bhubaneswar</option>

<option value=*"Punjab"*>Chandigarh</option>

<option value=*"Rajasthan"*>Jaipur</option>

<option value=*"Sikkim"*>Gangtok</option>

<option value=*"Tamil Nadu"*>Chennai</option>

<option value=*"Telangana"*>Hyderabad</option>

<option value=*"Tripura"*>Agartala</option>

<option value=*"Uttar Pradesh"*>Lucknow</option>

<option value=*"Uttarakhand"*>Dehradun</option>

<option value=*"West Bengal"*>Kolkata</option>

<option value=*"Jammu and Kashmir"*>Srinagar (summer), Jammu (winter)</option>

<option value=*"Ladakh"*>Leh</option>

</select>

</div><br><br>

<div>

<label for=*"doses"*>doses</label>

<select name=*"doses"*>

<option value=*"*<%out.print(doses);%>*"*><%out.print(doses);%></option>

<%

**if**(doses ==0){

%>

<option value=*"1"*>1</option>

<option value=*"2"*>2</option>

<%

}**else** **if**(doses ==1){

%>

<option value=*"0"*>0</option>

<option value=*"2"*>2</option>

<%

}**else** **if**(doses ==2){

%>

<option value=*"0"*>0</option>

<option value=*"1"*>1</option>

<%

}

%>

</select>

</div><br><br>

<div>

<label for=*" vaccination\_center\_id"*>Vaccination center</label>

<select name=*"vaccination\_center\_id"*>

<option value=*"0"*>None</option>

<c:forEach var=*"data"* items=*"*${vacceinationcenterdata}*"*>

<option value=*"*${data.getId()}*"*>${data.getName()}</option>

</c:forEach>

</select>

</div><br><br>

<button>Add Citizen</button><br><br>

</form>

${message}

</div>

</body>

</html>

Vaccination Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<%@ include file=*"header.jsp"*%><br>

<table border=*1*>

<tr>

<th></th>

<th></th>

<th></th>

<th><a href=*"add-new-center"*>Add New Center</a></th>

</tr>

<tr>

<th>ID</th>

<th>Name</th>

<th>City</th>

<th>Action</th>

</tr>

<c:forEach var=*"data"* items=*"*${Data}*"*>

<tr>

<td>${data.id}</td>

<td>${data.name}</td>

<td>${data.city}</td>

<td>

<a href=*"view-vaccination-center?id=*${data.id}*"*>View</a>&nbsp;&nbsp;

<a href=*"edit-vaccination-center?id=*${data.id}*&name=*${data.name}*"*>Edit</a>&nbsp;&nbsp;

<a href=*"delete-vaccination-center?id=*${data.id}*"*>Delete</a>

</td>

</tr>

</c:forEach>

</table>

</body>

</html>

Vaccination View Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<%@ include file=*"header.jsp"*%><br>

<h1>Center Information</h1>

<div style="border:*2px solid black*;width:*60vh*;padding: *10px*;text-aalign:*center*; margin:*40px*">

<c:forEach var=*"data1"* items=*"*${data}*"* begin=*"0"* end=*"0"*>

<div>

<h2>${data1.getVaccinationCenter\_Id().getName()}</h2>

</div><hr>

<div>

<h3><b>ID : |</b>${data1.getVaccinationCenter\_Id().getId()}</h3>

<h3><b>City: |</b>${data1.getVaccinationCenter\_Id().getCity()}</h3>

</div>

</c:forEach>

</div>

<hr><br>

<h2>All Citizens Of The Center</h2>

<table border=*1* style="text-align:*center*; margin:*40px*">

<tr>

<td>ID</td>

<td>NAME</td>

<td>ACTION</td>

</tr>

<c:forEach var=*"data"* items=*"*${data}*"*>

<tr>

<td>${data.id}</td>

<td>${data.name}</td>

<td><a href=*"citizen-view?id=*${data.id}*&name=*${data.name}*&city=*${data.city}*&doses=*${data.doses}*"*>View</a></td>

</tr>

</c:forEach>

</table>

</body>

</html>

Vaccnation center Edit Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<%@ include file=*"header.jsp"*%><br>

<h1>Center Information</h1>

<div style="border:*2px solid black*;width:*60vh*;padding: *10px*;text-aalign:*center*; margin:*40px*">

<c:forEach var=*"data1"* items=*"*${data}*"* begin=*"0"* end=*"0"*>

<div>

<h2>${data1.getVaccinationCenter\_Id().getName()}</h2>

</div><hr>

<div>

<h3><b>ID : |</b>${data1.getVaccinationCenter\_Id().getId()}</h3>

<h3><b>City: |</b>${data1.getVaccinationCenter\_Id().getCity()}</h3>

</div>

</c:forEach>

</div>

<hr><br>

<h2>All Citizens Of The Center</h2>

<table border=*1* style="text-align:*center*; margin:*40px*">

<tr>

<td>ID</td>

<td>NAME</td>

<td>ACTION</td>

</tr>

<c:forEach var=*"data"* items=*"*${data}*"*>

<tr>

<td>${data.id}</td>

<td>${data.name}</td>

<td><a href=*"citizen-view?id=*${data.id}*&name=*${data.name}*&city=*${data.city}*&doses=*${data.doses}*"*>View</a></td>

</tr>

</c:forEach>

</table>

</body>

</html>

Vaccination Edit Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Edit Vaccination Center</title>

</head>

<body>

<%@ include file=*"header.jsp"* %><br>

<div style="text-align:*center*;border:*1px solid black*">

<center><h2>Login Page</h2></center>

<form action=*"editnewcenter"* method=*"post"*>

<div id=*"lable"*>

<label for=*"Center name"*>Center name :</label>

<input type=*"text"* name=*"name"* placeholder=*"Center name"* autofocus=*"autofocus"* value=*"*<%out.print(request.getParameter("name"));%>*"*>

<input type=*"hidden"* name=*"id"* value=*"*<%out.print(request.getParameter("id"));%>*"*>

</div><br><br>

<div id=*"lable"*>

<label for=*"city"*>City :</label>

<select name=*"city"*>

<option value=*"null"*>None</option>

<option value=*"Adilabad"*>Adilabad</option>

<option value=*"Bhadradri Kothagudem"*>Bhadradri Kothagudem</option>

<option value=*"Hyderabad"*>Hyderabad</option>

<option value=*"Jagtial"*>Jagtial</option>

<option value=*"Jangaon"*>Jangaon</option>

<option value=*"Jayashankar Bhupalapally"*>Jayashankar Bhupalapally</option>

<option value=*"Jogulamba Gadwal"*>Jogulamba Gadwal</option>

<option value=*"Kamareddy"*>Kamareddy</option>

<option value=*"Karimnagar"*>Karimnagar</option>

<option value=*"Khammam"*>Khammam</option>

<option value=*"Komaram Bheem"*>Komaram Bheem</option>

<option value=*"Mahabubabad"*>Mahabubabad</option>

<option value=*"Mahbubnagar"*>Mahbubnagar</option>

<option value=*"Mahbubnagar"*>Mahbubnagar</option>

<option value=*"Mancherial"*>Mancherial</option>

<option value=*"Medak"*>Medak</option>

<option value=*"Medchal–Malkajgiri"*>Medchal–Malkajgiri</option>

<option value=*"Nagarkurnool"*>Nagarkurnool</option>

<option value=*"Nalgonda"*>Nalgonda</option>

<option value=*"Nirmal"*>Nirmal</option>

<option value=*"Nizamabad"*>Nizamabad</option>

<option value=*"Peddapalli"*>Peddapalli</option>

<option value=*"Rajanna Sircilla"*>Rajanna Sircilla</option>

<option value=*"Ranga Reddy"*>Ranga Reddy</option>

<option value=*"Sangareddy"*>Sangareddy</option>

<option value=*"Siddipet"*>Siddipet</option>

<option value=*"Suryapet"*>Suryapet</option>

<option value=*"Vikarabad"*>Vikarabad</option>

<option value=*"Wanaparthy"*>Wanaparthy</option>

<option value=*"Warangal Rural"*>Warangal Rural</option>

<option value=*"Warangal Urban"*>Warangal Urban</option>

<option value=*"Yadadri Bhuvanagiri"*>Yadadri Bhuvanagiri</option>

</select>

</div><br><br>

<div id=*"lable"*>

<button>Click To Change Center</button>

</div><br>

</form>

<p style="color:*green*">${message}</p>

</div>

</body>

</html>

Add citizen Page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Add Centers</title>

</head>

<body>

<%@ include file=*"header.jsp"* %><br>

<div style="text-align:*center*;border:*1px solid black*">

<center><h2>Login Page</h2></center>

<form action=*"addnewcenter"* method=*"post"*>

<div id=*"lable"*>

<label for=*"Center name"*>Center name :</label>

<input type=*"text"* name=*"name"* placeholder=*"Center name"* autofocus=*"autofocus"*>

</div><br><br>

<div id=*"lable"*>

<label for=*"city"*>City :</label>

<select name=*"city"*>

<option value=*"null"*>None</option>

<option value=*"Adilabad"*>Adilabad</option>

<option value=*"Bhadradri Kothagudem"*>Bhadradri Kothagudem</option>

<option value=*"Hyderabad"*>Hyderabad</option>

<option value=*"Jagtial"*>Jagtial</option>

<option value=*"Jangaon"*>Jangaon</option>

<option value=*"Jayashankar Bhupalapally"*>Jayashankar Bhupalapally</option>

<option value=*"Jogulamba Gadwal"*>Jogulamba Gadwal</option>

<option value=*"Kamareddy"*>Kamareddy</option>

<option value=*"Karimnagar"*>Karimnagar</option>

<option value=*"Khammam"*>Khammam</option>

<option value=*"Komaram Bheem"*>Komaram Bheem</option>

<option value=*"Mahabubabad"*>Mahabubabad</option>

<option value=*"Mahbubnagar"*>Mahbubnagar</option>

<option value=*"Mahbubnagar"*>Mahbubnagar</option>

<option value=*"Mancherial"*>Mancherial</option>

<option value=*"Medak"*>Medak</option>

<option value=*"Medchal–Malkajgiri"*>Medchal–Malkajgiri</option>

<option value=*"Nagarkurnool"*>Nagarkurnool</option>

<option value=*"Nalgonda"*>Nalgonda</option>

<option value=*"Nirmal"*>Nirmal</option>

<option value=*"Nizamabad"*>Nizamabad</option>

<option value=*"Peddapalli"*>Peddapalli</option>

<option value=*"Rajanna Sircilla"*>Rajanna Sircilla</option>

<option value=*"Ranga Reddy"*>Ranga Reddy</option>

<option value=*"Sangareddy"*>Sangareddy</option>

<option value=*"Siddipet"*>Siddipet</option>

<option value=*"Suryapet"*>Suryapet</option>

<option value=*"Vikarabad"*>Vikarabad</option>

<option value=*"Wanaparthy"*>Wanaparthy</option>

<option value=*"Warangal Rural"*>Warangal Rural</option>

<option value=*"Warangal Urban"*>Warangal Urban</option>

<option value=*"Yadadri Bhuvanagiri"*>Yadadri Bhuvanagiri</option>

</select>

</div><br><br>

<div id=*"lable"*>

<button>Add Center</button>

</div><br>

</form>

<p style="color:*green*">${message}</p>

</div>

</body>

</html>

Add vaccination center page

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Add-citizens</title>

</head>

<body>

<%@ include file=*"header.jsp"*%><br>

<div style="border:*1px solid black*;text-align:*center*">

<h2>Add Citizen</h2>

<form action=*"addcitizen"* method=*"post"*>

<div>

<label for=*"username"*>Username</label>

<input type=*"text"* name=*"name"* placeholder=*"username"*>

</div><br><br>

<div>

<label for=*"city"*>City :</label>

<select name=*"city"*>

<option value=*"none"*>None</option>

<option value=*"Andhra Pradesh"*>Amaravati</option>

<option value=*"Arunachal Pradesh"*>Itanagar</option>

<option value=*"Assam"*>Dispur</option>

<option value=*"Bihar"*>Patna</option>

<option value=*"Chhattisgarh"*>Raipur</option>

<option value=*"Goa"*>Panaji</option>

<option value=*"Gujarat"*>Gandhinagar</option>

<option value=*"Haryana"*>Chandigarh</option>

<option value=*"Himachal Pradesh"*>Shimla</option>

<option value=*"Jharkhand"*>Ranchi</option>

<option value=*"Karnataka"*>Bengaluru</option>

<option value=*"Kerala"*>Thiruvananthapuram</option>

<option value=*"Madhya Pradesh"*>Bhopal</option>

<option value=*"Maharashtra"*>Mumbai</option>

<option value=*"Manipur"*>Imphal</option>

<option value=*"Meghalaya"*>Shillong</option>

<option value=*"Mizoram"*>Aizawl</option>

<option value=*"Nagaland"*>Kohima</option>

<option value=*"Odisha"*>Bhubaneswar</option>

<option value=*"Punjab"*>Chandigarh</option>

<option value=*"Rajasthan"*>Jaipur</option>

<option value=*"Sikkim"*>Gangtok</option>

<option value=*"Tamil Nadu"*>Chennai</option>

<option value=*"Telangana"*>Hyderabad</option>

<option value=*"Tripura"*>Agartala</option>

<option value=*"Uttar Pradesh"*>Lucknow</option>

<option value=*"Uttarakhand"*>Dehradun</option>

<option value=*"West Bengal"*>Kolkata</option>

<option value=*"Jammu and Kashmir"*>Srinagar (summer), Jammu (winter)</option>

<option value=*"Ladakh"*>Leh</option>

</select>

</div><br><br>

<div>

<label for=*"doses"*>doses</label>

<select name=*"doses"*>

<option value=*"0"*>0</option>

<option value=*"1"*>1</option>

<option value=*"2"*>2</option>

</select>

</div><br><br>

<div>

<label for=*" vaccination\_center\_id"*>Vaccination center</label>

<select name=*"vaccinationCenter\_id"*>

<option value=*"0"*>None</option>

<c:forEach var=*"data"* items=*"*${vacceinationcenterdata}*"*>

<option value=*"*${data.id}*"*>${data.name}</option>

</c:forEach>

</select>

</div><br><br>

<button>Add Citizen</button><br><br>

</form>

${message}

</div>

</body>

</html>

Entity Admin

package com.example.demo.entity;

import jakarta.persistence.Column;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

import jakarta.persistence.Table;

@Entity

@Table(name="admin")

public class Admin {

/\*

\* column names and attributes

\*/

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

@Column(name="id")

private long id;

@Column(name="username")

private String username;

@Column(name="password")

private String password;

@Column(name="email")

private String email;

public long getId() {

return id;

}

/\*

\* getters and setters

\*

\*/

public void setId(long id) {

this.id = id;

}

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;

}

}

Citizens Class

package com.example.demo.entity;

import jakarta.persistence.Column;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

import jakarta.persistence.JoinColumn;

import jakarta.persistence.ManyToOne;

import jakarta.persistence.Table;

@Entity

@Table(name="citizen")

public class Citizens {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

@Column(name="id")

private long id;

@Column(name="name")

private String name;

@Column(name="city")

private String city;

@Column(name="doses")

private short doses;

@ManyToOne

@JoinColumn(name="vaccination\_center\_id")

private VaccinationCenter vaccinationCenter\_id;

public long getId() {

return id;

}

public void setId(long id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getCity() {

return city;

}

public void setCity(String city) {

this.city = city;

}

public short getDoses() {

return doses;

}

public void setDoses(short doses) {

this.doses = doses;

}

public VaccinationCenter getVaccinationCenter\_Id() { return vaccinationCenter\_id; }

public void setVaccinationCenter\_Id(VaccinationCenter vaccinationCenter) {

this.vaccinationCenter\_id = vaccinationCenter;

}

@Override

public String toString() {

return "Citizens [id=" + id + ", name=" + name + ", city=" + city + ", doses=" + doses

+ ", vaccinationCenter\_id=" + vaccinationCenter\_id + "]";

}

}

Vaccenation Center Class

package com.example.demo.entity;

import java.util.List;

import jakarta.persistence.CascadeType;

import jakarta.persistence.Column;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

import jakarta.persistence.OneToMany;

import jakarta.persistence.Table;

@Entity

@Table(name="vaccinationcenter")

public class VaccinationCenter {

public VaccinationCenter() {

}

public VaccinationCenter(long id) {

this.id=id;

}

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

@Column(name="id")

private long id;

@Column(name="center\_name")

private String name;

@Column(name="center\_city")

private String city;

@OneToMany(mappedBy = "vaccinationCenter\_id", cascade = CascadeType.ALL)

private List<Citizens> citizens;

public List<Citizens> getCitizens() {

return citizens;

}

public void setCitizens(List<Citizens> citizens) {

this.citizens = citizens;

}

public long getId() {

return id;

}

public void setId(long id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getCity() {

return city;

}

public void setCity(String city) {

this.city = city;

}

}

Admin reposit

package com.example.demo.repo;

import java.util.List;

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

import org.springframework.data.repository.CrudRepository;

import org.springframework.stereotype.Repository;

import com.example.demo.entity.Admin;

@Repository

public interface AdminRepo extends CrudRepository<Admin, Long> {

@Query("from Admin where username=?1 and password=?2")

List<Admin> login(String username, String password);

}

Citizen repository

package com.example.demo.repo;

import java.util.List;

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

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

import org.springframework.stereotype.Repository;

import com.example.demo.entity.Citizens;

import com.example.demo.entity.VaccinationCenter;

@Repository

public interface CitizensRepo extends JpaRepository<Citizens, Long> {

@Query("from Citizens where vaccinationCenter\_id=?1")

List<Citizens> CitizensOnVaccinationCenter(VaccinationCenter vaccinationCenter);

}

Vaccination center Page

package com.example.demo.repo;

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

import org.springframework.stereotype.Repository;

import com.example.demo.entity.VaccinationCenter;

@Repository

public interface VaccinationCenterRepo extends JpaRepository<VaccinationCenter, Long> {

}

package com.example.demo.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.example.demo.entity.Admin;

import com.example.demo.entity.Citizens;

import com.example.demo.entity.VaccinationCenter;

import com.example.demo.repo.AdminRepo;

import com.example.demo.repo.CitizensRepo;

import com.example.demo.repo.VaccinationCenterRepo;

@Service

public class ApplicationServices {

@Autowired

AdminRepo adminRepo;

@Autowired

VaccinationCenterRepo vaccinationCenterRepo;

@Autowired

CitizensRepo citizensRepo;

public Admin AddAdmin(Admin admin) {

return adminRepo.save(admin);

}

public boolean login(String username, String password) {

List<Admin> userlist= adminRepo.login(username, password);

if(userlist.size() ==1) {

return true;

}else {

return false;

}

}

public List<VaccinationCenter> AllVaccinationCenter(){

List<VaccinationCenter> list = vaccinationCenterRepo.findAll();

return list;

}

//view-vaccination-center service

public void view\_vaccination\_center\_data(long id) {

}

//getting all Citizens

public List<Citizens> AllCitizens() {

return citizensRepo.findAll();

}

//center Center

public VaccinationCenter savecenter(VaccinationCenter vaccinationCenter) {

VaccinationCenter vaccinationCenter1 = vaccinationCenterRepo.save(vaccinationCenter);

return vaccinationCenter1;

}

//Center Edit

public VaccinationCenter editcenter(VaccinationCenter vaccinationCenter) {

VaccinationCenter exesting = vaccinationCenterRepo.findById(vaccinationCenter.getId()).get();

exesting.setName(vaccinationCenter.getName());

exesting.setCity(vaccinationCenter.getCity());

return vaccinationCenterRepo.save(exesting);

}

//center Deleting

public void delete(long id) {

vaccinationCenterRepo.deleteById(id);

}

public List<Citizens> findVaccinationCenter(VaccinationCenter vaccinationCenter) {

List<Citizens> citizens = citizensRepo.CitizensOnVaccinationCenter(vaccinationCenter);

return citizens;

}

public List<VaccinationCenter> getIDOfVacc() {

List<VaccinationCenter> list = vaccinationCenterRepo.findAll();

return list;

}

public Citizens SaveCitizens(String name, String city, short doses, long vaccination\_center\_id) {

Citizens citizens = new Citizens();

citizens.setName(name);

citizens.setCity(city);

citizens.setDoses(doses);

VaccinationCenter VaccinationCenter = new VaccinationCenter(vaccination\_center\_id);

citizens.setVaccinationCenter\_Id(VaccinationCenter);

citizens = citizensRepo.save(citizens);

return citizens;

}

//Editing Citizens

public Citizens editCitizen(Citizens cit) {

Citizens q = citizensRepo.save(cit);

return q;

}

public void deleteCitizen(long id) {

citizensRepo.deleteById(id);

}

}

package com.example.demo.controller;

import java.util.List;

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

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotation.DeleteMapping;

import org.springframework.web.bind.annotation.GetMapping;

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

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.servlet.ModelAndView;

import com.example.demo.entity.Admin;

import com.example.demo.entity.Citizens;

import com.example.demo.entity.VaccinationCenter;

import com.example.demo.service.ApplicationServices;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

@Controller

public class ApplicationController {

@Autowired

ApplicationServices applicationServices;

@PostMapping("adminregister")

public ModelAndView adminregister(Admin admin) {

ModelAndView mv = new ModelAndView("index");

if(!admin.getUsername().equals("") && !admin.getEmail().equals("") && !admin.getPassword().equals("")) {

Admin subadmin =applicationServices.AddAdmin(admin);

mv.addObject("message"," Successfully Register With Id "+subadmin.getId());

return mv;

}else {

mv.addObject("message"," Fail To Register");

return mv;

}

}

@GetMapping("adminlogin")

public ModelAndView adminlogin(@RequestParam("username") String username, @RequestParam("password") String password,HttpServletRequest request) {

ModelAndView mv=null;

HttpSession session = request.getSession();

if(!username.equals("") && !password.equals("")) {

if(applicationServices.login(username, password)) {

session.setAttribute("username", username);

mv= new ModelAndView("adminindex");

return mv;

}else {

mv= new ModelAndView("index");

mv.addObject("message", "Invalid Username and Password");

return mv;

}

}else {

mv= new ModelAndView("index");

mv.addObject("message", "Empty Username or password");

return mv;

}

}

//Admin LogOut

@GetMapping("logout")

public String logout(HttpServletRequest request, HttpServletResponse response) {

HttpSession session = request.getSession(true);

session.setAttribute("username", null);

session.invalidate();

return "index";

}

//vaccinationCenter

@GetMapping("/vaccinationCenter")

public String vaccinationCenter(ModelMap map,HttpServletRequest request) {

HttpSession se = request.getSession(true);

if(se.getAttribute("username")== null){

return "index";

}

List<VaccinationCenter> v\_list = applicationServices.AllVaccinationCenter();

map.addAttribute("Data", v\_list);

return "vaccinationCenter";

}

//Displaying The All the citizens

@GetMapping("/citizens")

public String View\_All\_Citizens(ModelMap map,HttpServletRequest request) {

HttpSession se = request.getSession(true);

if(se.getAttribute("username")== null){

return "index";

}

List<Citizens> citizensList = applicationServices.AllCitizens();

map.addAttribute("Data", citizensList);

return "citizens";

}

//Adding vaccination centers

@PostMapping("addnewcenter")

public String addnewcenter(ModelMap map,VaccinationCenter vaccinationCenter, HttpServletRequest request) {

HttpSession se = request.getSession(true);

if(se.getAttribute("username")== null){

return "index";

}

System.out.println(vaccinationCenter.getCity());

if(!vaccinationCenter.getName().equals("") && !vaccinationCenter.getCity().equals("null")) {

VaccinationCenter vc = applicationServices.savecenter(vaccinationCenter);

if(vc.getId()>0) {

map.addAttribute("message", "Sucessfully Add Center With Id: "+vc.getId()+" <a href='vaccinationCenter'>VaccinationCenter</a>");

}else {

map.addAttribute("message", "Fail To Add Center");

}

}else {

map.addAttribute("message", "Fail To Add Center Empty filds");

}

return "add-new-center";

}

@PostMapping("editnewcenter")

public String editnewcenter(ModelMap map, VaccinationCenter vaccinationCenter, HttpServletRequest request) {

HttpSession se = request.getSession(true);

if(se.getAttribute("username")== null){

return "index";

}

if(!vaccinationCenter.getName().equals("") && !vaccinationCenter.getCity().equals("null")) {

VaccinationCenter vc =applicationServices.editcenter(vaccinationCenter);

if(vc.getId()>0) {

map.addAttribute("message", "Sucessfully Updated Center <a href='vaccinationCenter'>VaccinationCenter</a>");

}else {

map.addAttribute("message", "Fail To Update Center");

}

}else {

map.addAttribute("message", "Fail To Edit Center Empty filds");

}

return "edit-vaccination-center";

}

@GetMapping("/delete-vaccination-center")

public ModelAndView deletecenter(@RequestParam("id") long id, HttpServletRequest request) {

HttpSession se = request.getSession(true);

ModelAndView mv = new ModelAndView();

if(se.getAttribute("username")== null){

mv.setViewName("index");

return mv;

}else {

mv.setViewName("vaccinationCenter");

if(id>0) {

applicationServices.delete(id);

}

return mv;

}

}

@GetMapping("view-vaccination-center")

public String gopageviewvaccination(ModelMap map,VaccinationCenter vaccinationCenter) {

List<Citizens> citizenslist = applicationServices.findVaccinationCenter(vaccinationCenter);

map.addAttribute("data", citizenslist);

return"view-vaccination-center";

}

// Navigating to add citizens

@GetMapping("Add-citizens")

public String gotpageAdd\_citizens(ModelMap map) {

List<VaccinationCenter> list = applicationServices.getIDOfVacc();

map.addAttribute("vacceinationcenterdata",list);

return "Add-citizens";

}

//Adding Citizens

@PostMapping("addcitizen")

public String AddCitizens(ModelMap map, @RequestParam("name") String name, @RequestParam("city") String city,

@RequestParam("doses") short doses, @RequestParam("vaccinationCenter\_id") long vaccination\_center\_id) {

if(!name.equals("")&&!city.equals("")&&doses !=0 && vaccination\_center\_id != 0) {

Citizens citizens = applicationServices.SaveCitizens(name, city, doses, vaccination\_center\_id);

map.addAttribute("message", "Added Successfully With Id: "+citizens.getId()+" Name"+citizens.getName()+" <a href='citizens'>Go To citizens</a>");

return "Add-citizens";

}else {

map.addAttribute("message", "Fail TO Add Empty Fildes");

return "Add-citizens";

}

}

//Navegating to Citizens page

@GetMapping("citizen-view")

public String citizen\_view(@RequestParam("id") long id, @RequestParam("name") String name, @RequestParam("city") String city, @RequestParam("doses") String doses){

return "citizen-view";

}

//Navegating To citizen-edit

@GetMapping("citizen-Edit")

public String citizen\_edit(ModelMap map) {

List<VaccinationCenter> list = applicationServices.getIDOfVacc();

map.addAttribute("vacceinationcenterdata", list);

return "citizen-Edit";

}

//Editing Citizens

@GetMapping("editcitizen")

public ModelAndView Edit\_citizens(ModelMap map,

@RequestParam("id") long id,

@RequestParam("name") String name,

@RequestParam("city") String city,

@RequestParam("doses") short doses,

@RequestParam("vaccination\_center\_id") long vaccination\_center\_id) {

ModelAndView mv = new ModelAndView("citizen-Edit");

if(id !=0 && !name.equals("") && !city.equals("") && doses != 0 && vaccination\_center\_id != 0) {

Citizens cit = new Citizens();

VaccinationCenter va = new VaccinationCenter(vaccination\_center\_id);

cit.setId(id);

cit.setName(name);

cit.setCity(city);

cit.setDoses(doses);

cit.setVaccinationCenter\_Id(va);

Citizens citizens = applicationServices.editCitizen(cit);

map.addAttribute("message", "Edited Successfuly With Name "+citizens.getName()+" <a href='citizens'>citizens Page</a>");

}else {

map.addAttribute("message", "Fail To Edit <a href='citizens'>citizens Page</a>");

}

return mv;

}

@GetMapping("/citizen-delete")

public ModelAndView deletecitizen(@RequestParam("id") long id) {

ModelAndView mv = new ModelAndView("/citizens");

applicationServices.deleteCitizen(id);

return mv;

}

}

package com.example.demo.controller;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.GetMapping;

import com.example.demo.entity.VaccinationCenter;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

@Controller

public class ApplicationController2 {

@GetMapping("register")

public String goPageRegister() {

return "register";

}

@GetMapping("login")

public String goPagelogin() {

return "index";

}

@GetMapping("index")

public String goPagelogin1() {

return "index";

}

//nav to adding page for vaccination centers

@GetMapping("add-new-center")

public String addnewcenters() {

return "add-new-center";

}

@GetMapping("adminindex")

public String goPageAdmin(HttpServletRequest request, HttpServletResponse response) {

HttpSession se = request.getSession(true);

if(se.getAttribute("username")== null){

return "index";

}

return "adminindex";

}

@GetMapping("edit-vaccination-center")

public String gopageeditvaacinationcenter(VaccinationCenter vaccinationCenter) {

return "edit-vaccination-center";

}

}

package com.example.demo;

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);

}

}

Application Propertyes

server.port=8086

spring.mvc.view.prefix=/WEB-INF/

spring.mvc.view.suffix=.jsp

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.datasource.url=jdbc:mysql://localhost:3306/phase3endproject

spring.datasource.username=root

spring.datasource.password=Root

spring.jpa.generate-ddl=true

spring.jpa.hibernate.ddl-auto=create