

Task :

Create A Few Web Pages Using Spring & Hibernate

1. Employee Registration Page With Following Fields:

Name, Date Of Birth, Gender, Address, City, State, Login id And Password

2. Login Page

3. List Welcome Page With Hello Message To Logged In User With His Name.

Note: The only Tools that You can use are:-

Tomcat

Mysql

JSP Java, JDBC

Hibernate

Spring

Java11 Or JAVA 7

IntelliJ or Eclipse

U Need To Share The Screenshots Of The Outputs

1. Registration Page,

2. Log In Page,

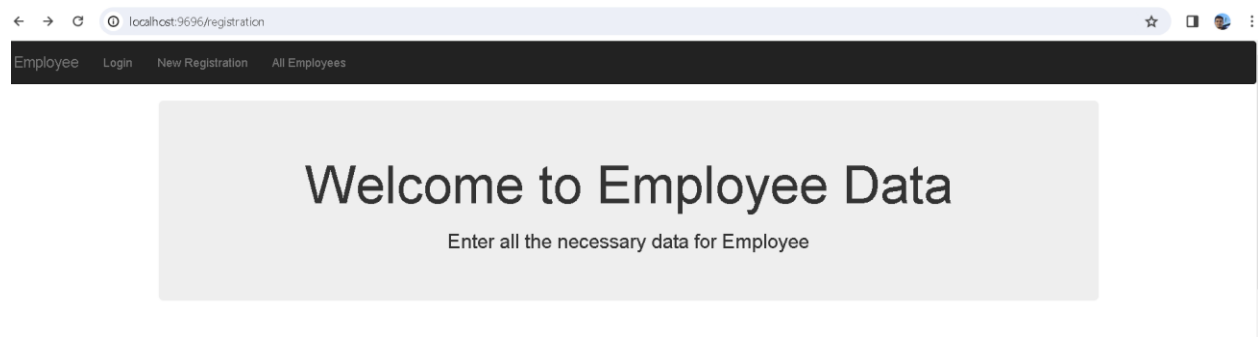
3. Welcome Page,(List Of All Users Registered)

4. Database Page(List Of All Users Registered)

5. Codes Screenshots

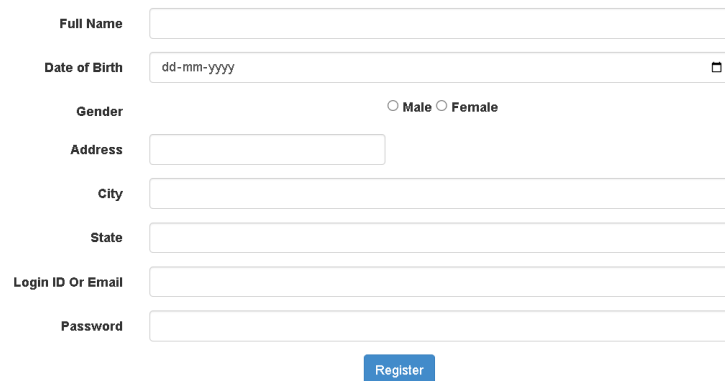
The Above Task is Completed by using Spring Boot,JSP,MySQL Database

Welcome Page



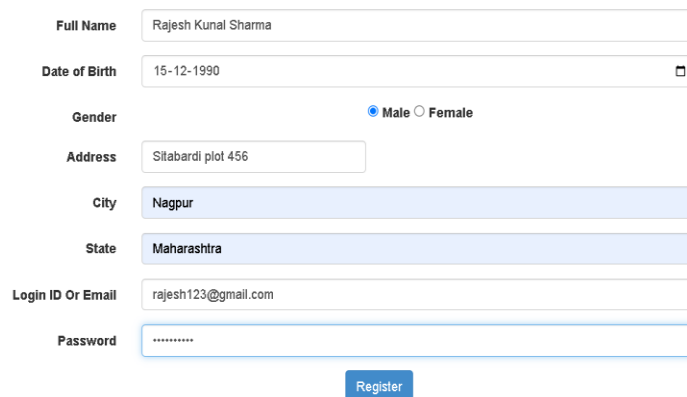
A screenshot of a web browser showing the 'Welcome Page'. The browser's address bar displays 'localhost:9696/registration'. The page has a dark navigation bar with links: 'Employee', 'Login', 'New Registration', and 'All Employees'. The main content area features a large light gray box with the heading 'Welcome to Employee Data' and the instruction 'Enter all the necessary data for Employee'.

New Registration




A 'New Registration' form with the following fields: 'Full Name' (text input), 'Date of Birth' (date picker showing 'dd-mm-yyyy'), 'Gender' (radio buttons for 'Male' and 'Female'), 'Address' (text input), 'City' (text input), 'State' (text input), 'Login ID Or Email' (text input), and 'Password' (text input). A blue 'Register' button is located at the bottom right of the form.

New Registration




A 'New Registration' form with the following pre-filled data: 'Full Name' is 'Rajesh Kunal Sharma', 'Date of Birth' is '15-12-1990', 'Gender' has 'Male' selected, 'Address' is 'Sitabardi plot 456', 'City' is 'Nagpur', 'State' is 'Maharashtra', 'Login ID Or Email' is 'rajesh123@gmail.com', and 'Password' is masked with dots. A blue 'Register' button is located at the bottom right of the form.

All Employee

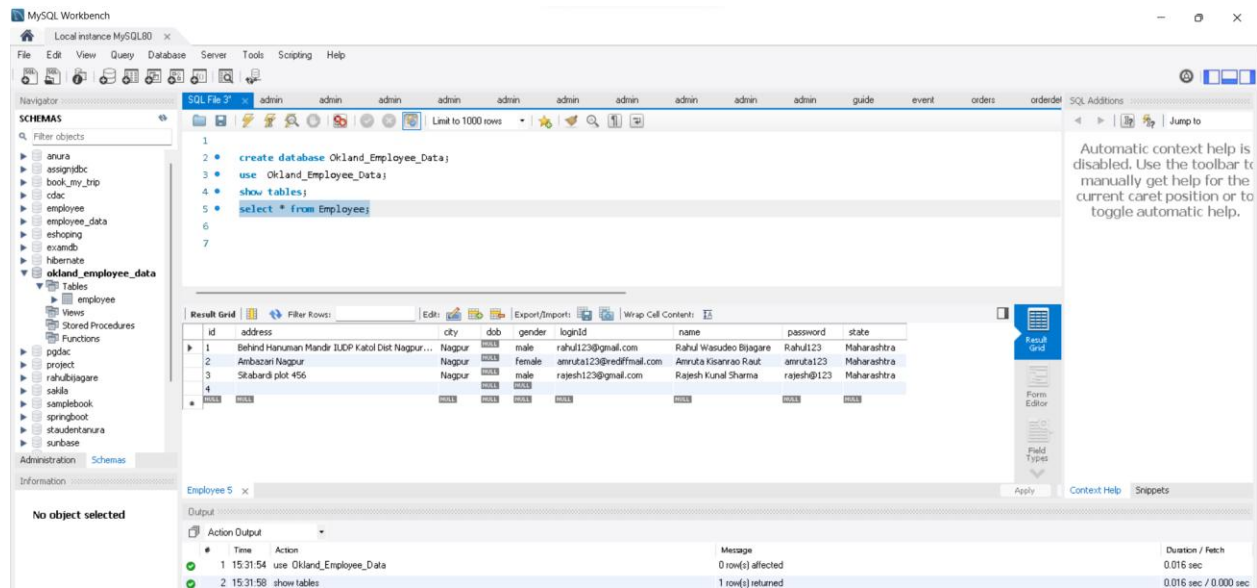
Id	Name	Date Of Birth	Gender	Address	City	State	Login Id Or Email	Password		
3	Rajesh Kunal Sharma		male	Sitabardi plot 456	Nagpur	Maharashtra	rajesh123@gmail.com	rajesh@123		

Update Employee

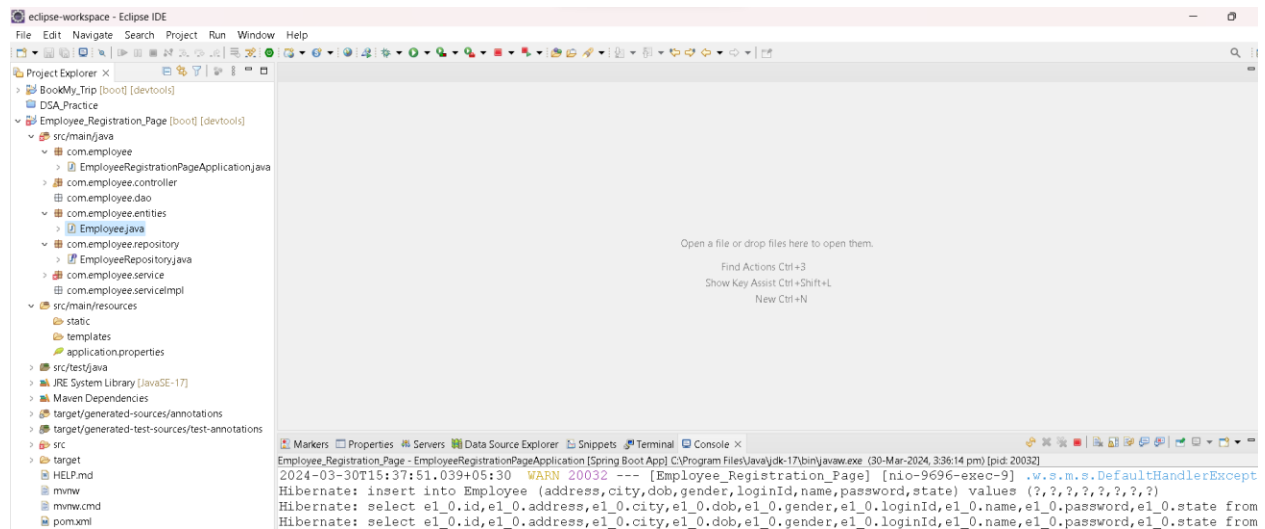
Full Name	<input type="text" value="Rajesh Kunal Sharma"/>
Date of Birth	<input type="text" value="dd-mm-yyyy"/> 
Gender	<input type="radio"/> Male <input type="radio"/> Female
Address	<input type="text" value="Sitabardi plot 456"/>
City	<input type="text" value="Nagpur"/>
State	<input type="text" value="Maharashtra"/>
Login Id Or Email	<input type="text" value="rajesh123@gmail.com"/>
Password	<input type="password" value="*****"/>
<input type="button" value="Update"/>	

Employee Login

LoginId Or Email	<input type="text" value="rajesh123@gmail.com"/>
Password	<input type="password" value="*****"/>
<input type="button" value="Login"/>	



Code Screen Shot



```
EmployeeRegistrationPageApplication.java X
1 package com.employee;
2
3 import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
6 public class EmployeeRegistrationPageApplication {
7
8     public static void main(String[] args) {
9         SpringApplication.run(EmployeeRegistrationPageApplication.class, args);
10     }
11 }
12
13 }
14
```

Home Controller

```
EmployeeRegistrationPageApplication.java X HomeController.java X
1 package com.employee.controller;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @Controller
6 public class HomeController {
7
8     @Autowired
9     EmployeeService employeeService;
10
11     @RequestMapping("/welcome")
12     public String Welcome(HttpServletRequest request) {
13         request.setAttribute("mode", "MODE_HOME");
14         return "welcome";
15     }
16
17     @RequestMapping("/registration")
18     public String registration(HttpServletRequest request) {
19         request.setAttribute("mode", "MODE_REGISTER");
20         return "welcome";
21     }
22
23     @PostMapping("/saveEmployee")
24     public String registerUser(@ModelAttribute Employee employee, BindingResult bindingResult, HttpServletRequest request) {
25         employeeService.saveMyEmployee(employee);
26         request.setAttribute("mode", "MODE_HOME");
27         return "welcome";
28     }
29
30     @GetMapping("/showEmployee")
31     public String showAllUsers(HttpServletRequest request) {
32         request.setAttribute("users", employeeService.showAllEmployees());
33         request.setAttribute("mode", "ALLEMPLOYEE");
34         return "welcome";
35     }
36 }
37
```

```

45         return "welcome";
46     }
47
48     @RequestMapping("/deleteemployee")
49     public String deleteEmployee(@RequestParam int id, HttpServletRequest request) {
50         employeeService.deleteMyEmployee(id);
51         request.setAttribute("users", employeeService.showAllEmployees());
52         request.setAttribute("mode", "ALLEMPLOYEE");
53         return "welcome";
54     }
55
56     @RequestMapping("/editemployee")
57     public String editEmployee(@RequestParam int id, HttpServletRequest request) {
58         request.setAttribute("employee", employeeService.editEmployee(id));
59         request.setAttribute("mode", "MODE_UPDATE");
60         return "welcome";
61     }
62
63     @RequestMapping("/login")
64     public String login(HttpServletRequest request) {
65         request.setAttribute("mode", "MODE_LOGIN");
66         return "welcome";
67     }
68
69     @RequestMapping("/loginemployee")
70     public String loginUser(@ModelAttribute Employee employee, HttpServletRequest request) {
71         if (employeeService.findByLoginIdAndPassword(employee.getEmployee(), employee.getPassword()) != null) {
72             return "home";
73         }
74         else {
75             request.setAttribute("error", "Invalid LoginId or Password");
76             request.setAttribute("mode", "MODE_LOGIN");
77             return "welcome";
78         }
79     }
80 }
81
82
83 }
84

```

Markers Properties Servers Data Source Explorer Snippets Terminal Console x
 Employee_Registration_Page - EmployeeRegistrationPageApplication [Spring Boot App] C:\Program Files\Java\jdk-17\bin\javaw.exe (30-Mar-2024, 3:36:14 pm) [pid: 20032]
 2024-03-30T15:37:51.300+05:30 WARN 20032 Employee_Registration_Page [id: 0x606, exec: 0] java.lang.DefaultHandlerException

RestController

```
1 package com.employee.controller;
2
3 import java.util.Date;
4
5 @Controller
6 public class RestController {
7
8     @Autowired
9     private EmployeeService employeeService;
10
11     @GetMapping("/")
12     public String home()
13     {
14         return "Home Page";
15     }
16
17     @GetMapping("/saveEmployee")
18     public String saveEmployee(@RequestParam String name,@RequestParam Date dob,@RequestParam String gender,
19                               @RequestParam String address,@RequestParam String city,@RequestParam String state,@RequestParam String log
20                               @RequestParam String password)
21     {
22         Employee employee= new Employee(0, name,dob,gender,address,city,state,loginId,password);
23         employeeService.saveMyEmployee(employee);
24         return "Employee is Succesfully saved...";
25     }
26
27 }
```

Employee Entities Class

```
1 package com.employee.entities;
2
3 import java.util.Date;
4
5 @Entity
6 @Table(name="Employee")
7 public class Employee {
8
9     @Id
10     @GeneratedValue(strategy = GenerationType.IDENTITY)
11     private int id;
12
13     private String name;
14     private Date dob;
15     private String gender;
16     private String address;
17     private String city;
18     private String state;
19     private String loginId;
20     private String password;
21
22     public int getId() {
23         return id;
24     }
25
26     public void setId(int id) {
27         this.id = id;
28     }
29
30     public String getName() {
31         return name;
32     }
33
34     public void setName(String name) {
35         this.name = name;
36     }
37
38     public Date getDob() {
39         return dob;
40     }
41 }
```

```

40     }
41     public void setDob(Date dob) {
42         this.dob = dob;
43     }
44     public String getGender() {
45         return gender;
46     }
47     public void setGender(String gender) {
48         this.gender = gender;
49     }
50     public String getAddress() {
51         return address;
52     }
53     public void setAddress(String address) {
54         this.address = address;
55     }
56     public String getCity() {
57         return city;
58     }
59     public void setCity(String city) {
60         this.city = city;
61     }
62     public String getState() {
63         return state;
64     }
65     public void setState(String state) {
66         this.state = state;
67     }
68     public String getLoginId() {
69         return loginId;
70     }
71     public void setLoginId(String loginId) {
72         this.loginId = loginId;
73     }
74     public void setPassword(String password) {
75         this.password = password;
76     }
77     public Employee(int id, String name, Date dob, String gender, String address, String city, String state,
78                     String loginId, String password) {
79         super();
80         this.id = id;
81         this.name = name;
82         this.dob = dob;
83         this.gender = gender;
84         this.address = address;
85         this.city = city;
86         this.state = state;
87         this.loginId = loginId;
88         this.password = password;
89     }
90     public Employee() {
91         super();
92         // TODO Auto-generated constructor stub
93     }
94     @Override
95     public String toString() {
96         return "Employee [id=" + id + ", name=" + name + ", dob=" + dob + ", gender=" + gender + ", address=" + address
97             + ", city=" + city + ", state=" + state + ", loginId=" + loginId + ", password=" + password + "]";
98     }
99     public String getEmployee() {
100         // TODO Auto-generated method stub
101     }

```



```

86         this.gender = gender;
87         this.address = address;
88         this.city = city;
89         this.state = state;
90         this.loginId = loginId;
91         this.password = password;
92     }
93     public Employee() {
94         super();
95         // TODO Auto-generated constructor stub
96     }
97     @Override
98     public String toString() {
99         return "Employee [id=" + id + ", name=" + name + ", dob=" + dob + ", gender=" + gender + ", address=" + address + ", city=" + city + ", state=" + state + ", loginId=" + loginId + ", password=" + password + "]";
100     }
101     public String getEmployee() {
102         // TODO Auto-generated method stub
103         return loginId;
104     }
105 }
106
107
108 }
109

```

Employee Crud Repository Class

```

EmployeeRegistrationPageApplication.java  HomeController.java  RestController.java  Employee.java  EmployeeRepository.java x
1  package com.employee.repository;
2
3  import org.springframework.data.repository.CrudRepository;
4
5
6
7  public interface EmployeeRepository extends CrudRepository<Employee, Integer> {
8      public Employee findByLoginIdAndPassword(String loginId, String password);
9
10
11
12
13 }
14

```

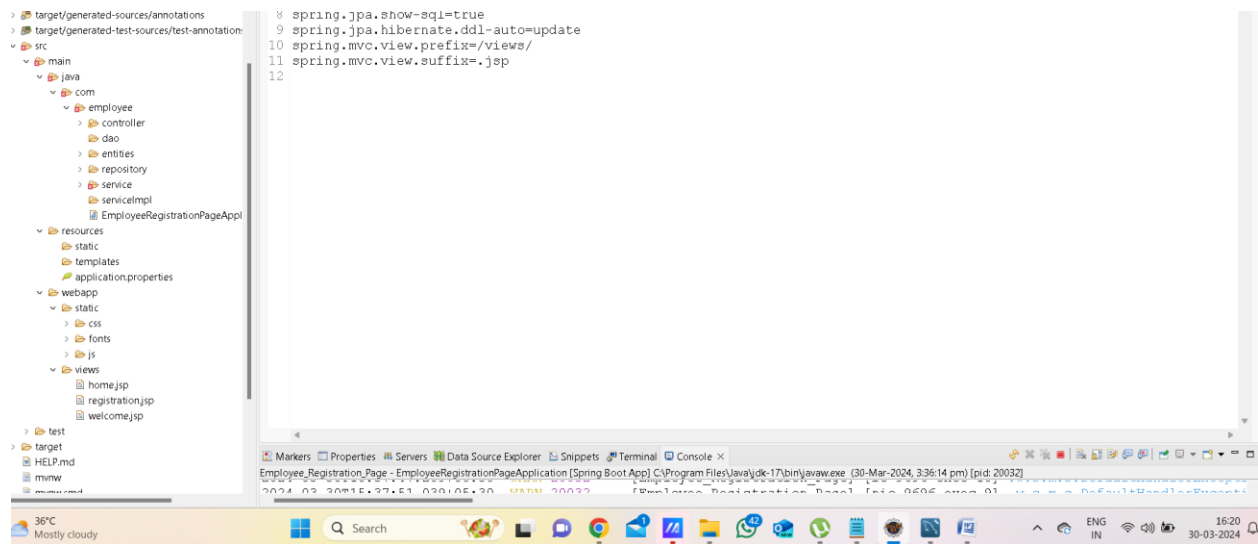
Employee Service Class

```
1 package com.employee.service;
2
3 import java.util.ArrayList;
4
5 @Service
6 @Transactional
7 public class EmployeeService {
8
9     private final EmployeeRepository employeeRepository;
10
11     public EmployeeService(EmployeeRepository employeeRepository) {
12         this.employeeRepository=employeeRepository;
13     }
14
15     public void saveMyEmployee(Employee employee)
16     {
17         employeeRepository.save(employee);
18     }
19
20     public List<Employee> showAllEmployees() {
21         List<Employee> employees = new ArrayList<Employee>();
22         for(Employee employee : employeeRepository.findAll()) {
23             employees.add(employee);
24         }
25
26         return employees;
27     }
28
29     public void deleteMyEmployee(int id) {
30         employeeRepository.deleteById(id);
31     }
32
33     public Employee editEmployee(int id) {
34         return employeeRepository.findOne(id);
35     }
36
37     public Employee findByloginIdAndPassword(String loginId, String password) {
38         return employeeRepository.findByLoginIdAndPassword(loginId, password);
39     }
40
41 }
```

Application.properties File

```
1 spring.application.name=Employee_Registration_Page
2 spring.jpa.hibernate.naming.physical-strategy=org.hibernate.boot.model.naming.PhysicalNamingStrategyStandardImpl
3 server.port=9696
4 spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
5 spring.datasource.url=jdbc:mysql://localhost:3306/Okland_Employee_Data
6 spring.datasource.username=root
7 spring.datasource.password=Rahul@1106
8 spring.jpa.show-sql=true
9 spring.jpa.hibernate.ddl-auto=update
10 spring.mvc.view.prefix=/views/
11 spring.mvc.view.suffix=.jsp
12
```

Views show



Home.jsp Page

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="utf-8">
7 <meta http-equiv="X-UA-Compatible" content="IE=edge">
8 <meta http-equiv="Pragma" content="no-cache">
9 <meta http-equiv="Cache-Control" content="no-cache">
10 <meta http-equiv="Expires" content="sat, 01 Dec 2001 00:00:00 GMT">
11 <title>tecno-tab | home</title>
12 <link href="static/css/bootstrap.min.css" rel="stylesheet">
13 <link href="static/css/style.css" rel="stylesheet">
14 <!--[if lt IE 9]>
15   <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
16   <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
17 <![endif]-->
18
19 </head>
20 <body>
21 <div role="navigation">
22   <div class="navbar navbar-inverse">
23     <a href="/welcome" class="navbar-brand">Employee Data</a>
24     <div class="navbar-collapse collapse">
25       <ul class="nav navbar-nav">
26         <li><a href="/login">Login</a></li>
27         <li><a href="/register">New Registration</a></li>
28         <li><a href="/show-users">All Employee</a></li>
29       </ul>
30     </div>
31   </div>
32 </div>
33
```

```
31     </div>
32 </div>
33
34 <div class="container" id="homediv">
35     <div class="jumbotron text-center">
36         <h1>Welcome to Employee</h1>
37         <h3>Fill Necessary all Employee Data</h3>
38     </div>
39 </div>
40
41 <div class="container text-centered">
42     <div class="alert alert-success">
43         <h4>Employee All Data</h4>
44     </div>
45     <iframe width="400" height="200"
46         src="https://www.youtube.com/embed/m0Xf6Bf6KFU" frameborder="0"
47         allow="autoplay; encrypted-media" allowfullscreen></iframe>
48
49     <p> This is the First Employee Data </p>
50     <div class="alert alert-success">
51
52     </div>
53     <iframe width="400" height="200"
54         src="https://www.youtube.com/embed/m0Xf6Bf6KFU" frameborder="0"
55         allow="autoplay; encrypted-media" allowfullscreen></iframe>
56
57     <p> This is 1st Session of the tutorial..... </p>
58     <div class="alert alert-success">
59         <h4>Session 1: Spring Boot Tutorial</h4>
60     </div>
61     <iframe width="400" height="200"
62         src="https://www.youtube.com/embed/m0Xf6Bf6KFU" frameborder="0"
63         allow="autoplay; encrypted-media" allowfullscreen></iframe>
64
65
66
67
68
69
70
71
72
73
74
75
76 <!-- Optional JavaScript -->
77 <!-- jQuery first, then Popper.js, then Bootstrap JS -->
78 <script src="static/js/jquery-1.11.1.min.js"></script>
79 <script src="static/js/bootstrap.min.js"></script>
80 </body>
81 </html>
```

Welcome ,Login and Regsitartion page

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="utf-8">
7   <meta http-equiv="X-UA-Compatible" content="IE=edge">
8   <meta http-equiv="Pragma" content="no-cache">
9   <meta http-equiv="Cache-Control" content="no-cache">
10  <meta http-equiv="Expires" content="sat, 01 Dec 2001 00:00:00 GMT">
11  <title>Employee Data | home</title>
12  <link href="static/css/bootstrap.min.css" rel="stylesheet">
13  <link href="static/css/style.css" rel="stylesheet">
14  <!--[if lt IE 9]>
15    <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
16    <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
17  <![endif]-->
18
19 </head>
20 <body>
21 <div role="navigation">
22   <div class="navbar navbar-inverse">
23     <a href="/welcome" class="navbar-brand">Employee</a>
24     <div class="navbar-collapse collapse">
25       <ul class="nav navbar-nav">
26         <li><a href="/login">Login</a></li>
27         <li><a href="/registration">New Registration</a></li>
28         <li><a href="/saveEmployee">All Employees</a></li>
29       </ul>
30     </div>
31   </div>
32 </div>
33
34 <c:choose>
```

```
31   </div>
32 </div>
33
34 <c:choose>
35   <c:when test="${mode=='MODE_HOME'}">
36     <div class="container" id="homediv">
37       <div class="jumbotron text-center">
38         <h1>Welcome to Employee Data</h1>
39         <h3>Enter all the necessary data for Employee</h3>
40       </div>
41     </div>
42   </c:when>
43
44   <c:when test="${mode=='MODE_REGISTER'}">
45     <div class="container text-center">
46       <h3>New Registration</h3>
47       <hr>
48       <form class="form-horizontal" method="POST" action="saveEmployee">
49         <input type="hidden" name="id" value="${employee.id}" />
50         <div class="form-group">
51           <label class="control-label col-md-3">Full Name</label>
52           <div class="col-md-7">
53             <input type="text" class="form-control" name="name"
54               value="${employee.name}" />
55           </div>
56         </div>
57         <div class="form-group">
58           <label class="control-label col-md-3">Date of Birth</label>
59           <div class="col-md-7">
60             <input type="date" class="form-control" name="dob"
61               value="${employee.dob}" />
62           </div>
63         </div>
64       </form>
65     </div>
```

```
63         value="{employee.dob }" />
64     </div>
65 </div>
66 <div class="form-group">
67     <label class="control-label col-md-3">Gender</label>
68     <div class="col-md-7">
69
70         <input type="radio" id="male" name="gender" value="male">
71     <label for="male">Male</label>
72     <input type="radio" id="female" name="gender" value="female">
73     <label for="female">Female</label><br>
74     </div>
75 </div>
76 <div class="form-group">
77     <label class="control-label col-md-3">Address </label>
78     <div class="col-md-7">
79         <input type="text" class="form-control" name="address"
80             value="{employee.address }" />
81     </div>
82 </div>
83 <div class="form-group">
84     <label class="control-label col-md-3">City</label>
85     <div class="col-md-7">
86         <input type="text" class="form-control" name="city"
87             value="{employee.city }" />
88     </div>
89 </div>
90 <div class="form-group">
91     <label class="control-label col-md-3">State</label>
92     <div class="col-md-7">
93         <input type="text" class="form-control" name="state"
94             value="{employee.state }" />
95     </div>
96 </div>
97 <div class="form-group">
98     <label class="control-label col-md-3">Login ID Or Email</label>
99     <div class="col-md-7">
100         <input type="email" class="form-control" name="loginId"
101             value="{employee.loginId }" />
102     </div>
103 </div>
104 <div class="form-group">
105     <label class="control-label col-md-3">Password</label>
106     <div class="col-md-7">
107         <input type="password" class="form-control" name="password"
108             value="{employee.password }" />
109     </div>
110 </div>
111
112 <div class="form-group ">
113     <input type="submit" class="btn btn-primary" value="Register" />
114 </div>
115 </form>
116 </div>
117 </c:when>
118 <c:when test="{mode=='ALL_EMPLOYEE'}">
119     <div class="container text-center" id="tasksDiv">
120         <h3>All Employee</h3>
121         <hr>
122         <div class="table-responsive">
123             <table class="table table-striped table-bordered">
124                 <thead>
125                     <tr>
126                         <th>Id</th>
127                         <th>Name</th>
128                     </tr>
129                 </thead>
130             </table>
131         </div>
132     </div>
133 </c:when>
134 </div>
```

```
94         value="{employee.state }" />
95     </div>
96 </div>
97 <div class="form-group">
98     <label class="control-label col-md-3">Login ID Or Email</label>
99     <div class="col-md-7">
100         <input type="email" class="form-control" name="loginId"
101             value="{employee.loginId }" />
102     </div>
103 </div>
104 <div class="form-group">
105     <label class="control-label col-md-3">Password</label>
106     <div class="col-md-7">
107         <input type="password" class="form-control" name="password"
108             value="{employee.password }" />
109     </div>
110 </div>
111
112 <div class="form-group ">
113     <input type="submit" class="btn btn-primary" value="Register" />
114 </div>
115 </form>
116 </div>
117 </c:when>
118 <c:when test="{mode=='ALL_EMPLOYEE'}">
119     <div class="container text-center" id="tasksDiv">
120         <h3>All Employee</h3>
121         <hr>
122         <div class="table-responsive">
123             <table class="table table-striped table-bordered">
124                 <thead>
125                     <tr>
126                         <th>Id</th>
127                         <th>Name</th>
128                     </tr>
129                 </thead>
130             </table>
131         </div>
132     </div>
133 </c:when>
134 </div>
```

```

127         <th>Name</th>
128         <th>Date Of Birth</th>
129         <th>Gender</th>
130         <th>Address</th>
131         <th>City</th>
132         <th>State</th>
133         <th>Login Id Or Email</th>
134         <th>Password</th>
135     </tr>
136 </thead>
137 <tbody>
138     <c:forEach var="employee" items="${employee }">
139         <tr>
140             <td>${employee.id}</td>
141             <td>${employee.name}</td>
142             <td>${employee.dob}</td>
143             <td>${employee.gender}</td>
144             <td>${employee.address}</td>
145             <td>${employee.city}</td>
146             <td>${employee.state}</td>
147             <td>${employee.loginId}</td>
148             <td>${employee.password}</td>
149
150             <td><a href="/delete-employee?id=${employee.id }"><span
151                 class="glyphicon glyphicon-trash"></span></a></td>
152             <td><a href="/edit-employee?id=${employee.id }"><span
153                 class="glyphicon glyphicon-pencil"></span></a></td>
154         </tr>
155     </c:forEach>
156 </tbody>
157 </table>
158 </div>
159 </div>
160

```

```

160     </div>
161 </c:when>
162
163 <c:when test="${mode=='MODE UPDATE'}">
164     <div class="container text-center">
165         <h3>Update Employee</h3>
166         <hr>
167         <form class="form-horizontal" method="POST" action="saveEmployee">
168             <input type="hidden" name="id" value="${employee.id }" />
169             <div class="form-group">
170                 <label class="control-label col-md-3">Full Name</label>
171                 <div class="col-md-7">
172                     <input type="text" class="form-control" name="name"
173                         value="${employee.name }" />
174                 </div>
175             </div>
176             <div class="form-group">
177                 <label class="control-label col-md-3">Date of Birth</label>
178                 <div class="col-md-7">
179                     <input type="date" class="form-control" name="dob"
180                         value="${employee.dob }" />
181                 </div>
182             </div>
183             <div class="form-group">
184                 <label class="control-label col-md-3">Gender</label>
185                 <div class="col-md-7">
186                     <input type="radio" id="male" name="gender" value="male">
187                     <label for="male">Male</label>
188                     <input type="radio" id="female" name="gender" value="female">
189                     <label for="female">Female</label><br>
190                 </div>
191             </div>
192         </div>
193     </div>

```



```

245         <script value= "value" /></script>
246     </div>
247 </c:if>
248 <div class="form-group">
249     <label class="control-label col-md-3">LoginId Or Email</label>
250     <div class="col-md-7">
251         <input type="email" class="form-control" name="loginId"
252             value="{employee.loginId }" />
253     </div>
254 </div>
255 <div class="form-group">
256     <label class="control-label col-md-3">Password</label>
257     <div class="col-md-7">
258         <input type="password" class="form-control" name="password"
259             value="{employee.password }" />
260     </div>
261 </div>
262 <div class="form-group">
263     <input type="submit" class="btn btn-primary" value="Login" />
264 </div>
265 </form>
266 </div>
267 </c:choose>
268
269
270 <!-- Optional JavaScript -->
271 <!-- jQuery first, then Popper.js, then Bootstrap JS -->
272 <script src="static/js/jquery-1.11.1.min.js"></script>
273 <script src="static/js/bootstrap.min.js"></script>
274
275
276 </body>
277 </html>

```

Markers Properties Servers Data Source Explorer Snippets Terminal Console x
 Employee_Registration_Page - EmployeeRegistrationPageApplication [Spring Boot App] C:\Program Files\Java\jdk-17\bin\javaw.exe (30-Mar-2024, 3:36:14 pm) [pid: 20032]