Tutorial – 4

# 

# 1) **Perform following tasks with Servlet and JDBC.**

**Task : 1 :** Create Employee table using MySQL .

**Task : 2 :** Design an Employee form using HTML into web pages section.

(You can use existing themes for html pages)

**Task : 3 :** Create an Employee POJO class within POJOs package

**Task : 4 :** Create an EmployeeDAO file within DAO package for JDBC connection and database operations.

**Task : 5 :** Create a Servlet file within servlets package and write code for fetching, creating pojo class object and printing the values entered into the html form. Also write code to call DAO method.

**Code:**

**validation.js**

$(document).ready(function(){

$("form").submit(function(){

$("#error1").remove();

var Name=$("#name").val();

var Email=$("#email").val();

var Salary=$("#salary").val();

var Age=$("#age").val();

var Department=$("#department").val();

if(Email=="" || Salary=="" || Age==""

|| Department=="" || Name=="")

{

if(Name=="")

{

$("#p6").html("Name is required");

$("#p6").css({"color":"red"});

}

if(Email=="")

{

$("#p1").html("<p id='error1'>Email is required</p>");

$("#p1").css({"color":"red"});

}

if(Salary=="")

{

$("#p2").html("Password is required");

$("#p2").css({"color":"red"});

}

if(Age=="")

{

$("#p4").html("Age is required");

$("#p4").css({"color":"red"});

}

if(Department=="")

{

$("#p5").html("Birthday is required");

$("#p5").css({"color":"red"});

}

return false;

}

else

{

return true;

}

});

$("#name").keyup(function(){

var name=$("#name").val();

if(name!="")

{

if(name.length>2)

{

$("#p6").html("Name is confirmed");

$("#p6").css({"color":"yellow"});

}

else

{

$("#p6").html("Not a valid name!");

$("#p6").css({"color":"red"});

}

}

else

{

$("#p6").html("Name is not confirmed");

$("#p6").css({"color":"red"});

}

});

$("#email").keyup(function(){

var Email=$("#email").val();

if(Email!="")

{

var regEx = /^([\w-\.]+@([\w-]+\.)+[\w-]{2,4})?$/;

var validEmail = regEx.test(Email);

if (!validEmail)

{

$("#p1").html("Email is not valid");

$("#p1").css({"color":"red"});

}

else

{

$("#p1").html("Email is Valid");

$("#p1").css({"color":"yellow"});

}

}

else

{

$("#p1").html("Email is not Valid");

$("#p1").css({"color":"red"});

}

});

$("#salary").keyup(function(){

var Salary=$("#salary").val();

if(Salary!="")

{

if(Salary.length>2)

{

$("#p2").html("Salary is confirmed");

$("#p2").css({"color":"yellow"});

}

else

{

$("#p2").html("Salary must be greater than 2 digits");

$("#p2").css({"color":"red"});

}

}

else

{

$("#p2").html("Salary is not confirmed");

$("#p2").css({"color":"red"});

}

});

$("#age").keyup(function(){

var Age=$("#age").val();

if(Age!="")

{

if(Age>=18)

{

$("#p4").html("Age is confirmed");

$("#p4").css({"color":"yellow"});

}

else

{

$("#p4").html("Age must be greater than 18");

$("#p4").css({"color":"red"});

}

}

else

{

$("#p4").html("Age is not valid");

$("#p4").css({"color":"red"});

}

});

$("#department").keyup(function(){

var Department=$("#department").val();

if(Department!="")

{

$("#p5").html("Department is confirmed");

$("#p5").css({"color":"yellow"});

}

else

{

$("#p5").html("Department is not valid");

$("#p5").css({"color":"red"});

}

});

});

**index.html**

<!DOCTYPE html>

<!--

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To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

<head>

<title>Dilip Sarvaiya</title>

<meta charset="UTF-8">

<link rel="stylesheet" href="css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="js/validation.js"></script>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

body

{

background-color: purple;

}

.container

{

padding-bottom:15px;

}

p

{

font-size: 18px;

}

h2,label

{

color:#ffffff;

}

</style>

</head>

<body >

<nav class="navbar navbar-expand-lg navbar-dark bg-primary"><h2>Tutorial-04</h2></nav>

<div class="container">

<h2>Employee Form</h2>

<form method ="post" action="EmployeeDataServlet">

<div class="form-group">

<label for="name">Name:</label>

<input type="text" class="form-control" id="name" placeholder="Enter Name" name="name" />

<p id="p6"></p>

</div>

<div class="form-group">

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

<input type="email" class="form-control" id="email" placeholder="Enter email" name="email" />

<p id="p1"></p>

</div>

<div class="form-group">

<label for="salary">Salary</label>

<input type="number" class="form-control" id="salary" placeholder="Enter salary" name="salary" />

<p id="p2"></p>

</div>

<div class="form-group">

<label for="age">Age</label>

<input type="number" class="form-control" id="age" placeholder="Choose Age" name="age">

<p id="p4"></p>

</div>

<div class="form-group">

<label for="gender">Gender</label>

<input type="radio" id="gender" checked value="Male" name="gender" /><font color="white"> Male</font>

<input type="radio" id="gender" value="Female" name="gender" /><font color="white"> Female</font>

<p id="p6"></p>

</div>

<div class="form-group">

<label for="department">Select the Department</label>

<select id="department" class="form-control" name="department">

<option>Computer Engineering</option>

<option>Electrical Engineering</option>

<option>Mechnical Engineering</option>

<option>Electronics Engineering</option>

<option>Civil Engineering</option>

</select>

<p id="p5"></p>

</div>

<div class="form-group">

<input name="submit" class="btn btn-success" type="submit" value="Submit">

</div>

</form>

</div>

</body>

</html>

**EmployeeDataServlet.java**

/\*

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\* and open the template in the editor.

\*/

import DAO.UserDetailsDAO;

import Pojo.UserDetails;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/EmployeeDataServlet"})

public class EmployeeDataServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

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

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

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

int age=Integer.parseInt(request.getParameter("age"));

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

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

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<link rel=\"stylesheet\" type=\"text/css\" href=\"css/bootstrap.min.css\">");

out.println("<title>Submmited Data</title>");

out.println("</head>");

out.println("<body>");

out.println("<nav class=\"navbar navbar-expand-lg navbar-dark bg-primary\"><h2 style=\"color:white\";>Employee Details</h2></nav>");

out.println("<div class=\"alert alert-success\" role=\"alert\">");

out.println("<h3>Name: " + name+ "</h3>");

out.println("<h3>Email: " + email+ "</h3>");

out.println("<h3>Salary: " + salary+ "</h3>");

out.println("<h3>Age: " + age + "</h3>");

out.println("<h3>Gender: " + gender + "</h3>");

out.println("<h3>Department: " + department + "</h3>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

UserDetails obj=new UserDetails(name,email,salary,age,gender,department);

//insert(obj);

//Task-3 Call the DAO method

UserDetailsDAO.insert(obj);

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**UserDetails.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package Pojo;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

public class UserDetails {

String name;

String email;

String salary;

int age;

String gender;

String department;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getSalary() {

return salary;

}

public void setSalary(String salary) {

this.salary = salary;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getGender() {

return gender;

}

public void setGender(String gender) {

this.gender = gender;

}

public String getDepartment() {

return department;

}

public void setDepartment(String department) {

this.department = department;

}

public UserDetails(String name, String email, String salary, int age, String gender, String department) {

this.name = name;

this.email = email;

this.salary = salary;

this.age = age;

this.gender = gender;

this.department = department;

}

}

**UserDetailsDAO.java**

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package DAO;

import Pojo.Employee;

import java.io.IOException;

import static java.lang.System.out;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

public class EmployeeDAO {

//Why too much code in the servlet

public static void insert(Employee obj)

throws IOException {

try

{

//Step-1 : Load the JDBC driver

Class.forName("com.mysql.jdbc.Driver"); // For MySQL

//Step-2 : Define the connection URL

String mysqlURL

= "jdbc:mysql://localhost:3307/tutorial\_4?user=root";

//Step-3 : Establish the connection

Connection con = DriverManager.getConnection(mysqlURL);

//Step-4 : Create a PreparedStatement object

String sql = "INSERT INTO emp (name,email,salary,age,gender,department) "

+ "VALUES (?, ?, ?, ?,?,?)";

//String sql = "UPDATE usersDetails " +

// "SET password=?,conf\_pass=?, age=?,branch=?,msg=?, gender=?, hobby=?" +

// "WHERE username=?";

//String sql = "DELET FROM Users " +

// "WHERE username=?";

PreparedStatement st = con.prepareStatement(sql);

st.setString(1, obj.getName());

st.setString(2, obj.getEmail());

st.setString(3, obj.getSalary());

st.setInt(4, obj.getAge());

st.setString(5, obj.getGender());

st.setString(6,obj.getDepartment());

//Step-5 : Execute a query or update

int rowsInserted = st.executeUpdate();

//Step-7 : Close the connection

con.close();

} catch (ClassNotFoundException cnfe) {

System.err.println("Error loading driver:" + cnfe);

} catch (SQLException sqle) {

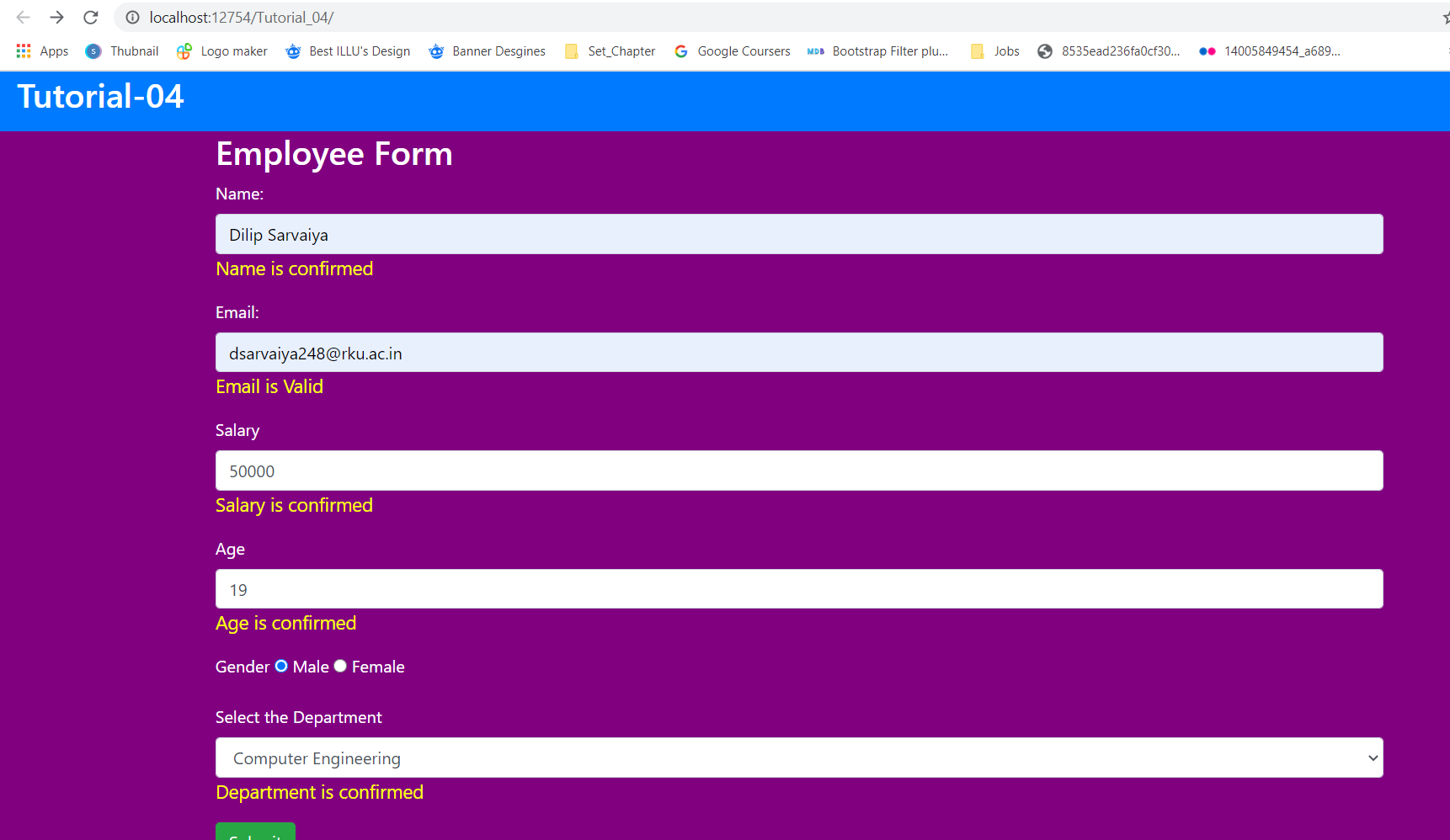
System.err.println("Error with connection:" + sqle);

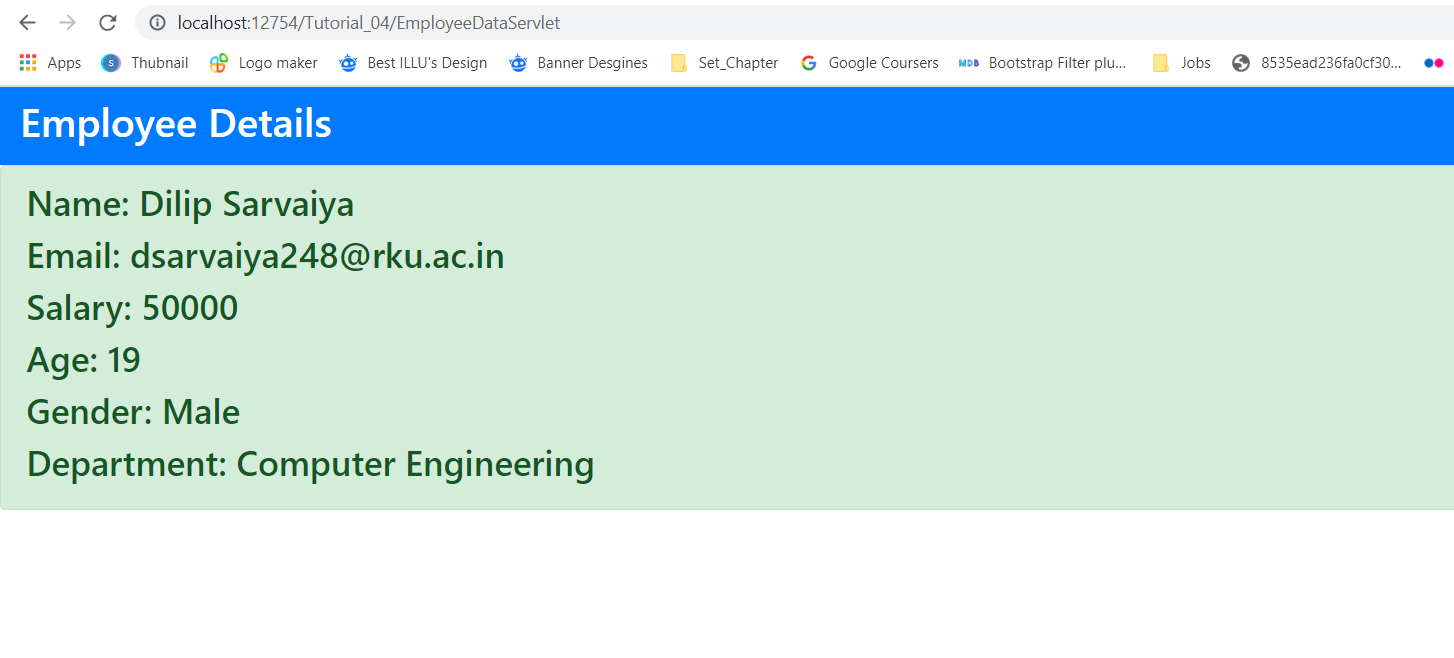
}

}

}

**Output:**

****

****

# 2) **Perform following tasks with Servlet and JDBC.**

**Task : 1 :** Create Employee table using MySQL .

**Task : 2 :** Design an Employee form using HTML into web pages section.

(You can use existing themes for html pages)

**Task : 3 :** Create an Employee POJO class within POJOs package

**Task : 4 :** Create an EmployeeDAO file within DAO package for JDBC connection and database operations.

**Task : 5 :** Create a Servlet file “ConfirmEmpServlet” within servlets package and write code for fetching, creating pojo class object and store this POJO class object into session variable (Use either HttpSession or Cookies) and print the values entered into the html form. Also add hyperlink with “Confirm” text. By pressing this link, move to next servlet i.e. “SaveEmpServlet”

**Task : 6 :** Create a Servlet file “SaveEmpServlet” within the servlets package and write code for fetching pojo class object from session variable and printing the values available in pojo class object. Also write code to call DAO method to insert this record into database table.

**Code:**

**html\_session.html**

<!DOCTYPE html>

<!--

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and open the template in the editor.

-->

<html>

<head>

<title>Dilip Sarvaiya</title>

<meta charset="UTF-8">

<link rel="stylesheet" href="css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="js/validation.js"></script>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

body

{

background-color: purple;

}

.container

{

padding-bottom:15px;

}

p

{

font-size: 18px;

}

h2,label

{

color:#ffffff;

}

</style>

</head>

<body >

<nav class="navbar navbar-expand-lg navbar-dark bg-primary"><h2>Tutorial-04</h2></nav>

<div class="container">

<h2>Employee Form</h2>

<form method ="post" action="ConfirmEmpServlet">

<div class="form-group">

<label for="name">Name:</label>

<input type="text" class="form-control" id="name" placeholder="Enter Name" name="name" />

<p id="p6"></p>

</div>

<div class="form-group">

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

<input type="email" class="form-control" id="email" placeholder="Enter email" name="email" />

<p id="p1"></p>

</div>

<div class="form-group">

<label for="salary">Salary</label>

<input type="number" class="form-control" id="salary" placeholder="Enter salary" name="salary" />

<p id="p2"></p>

</div>

<div class="form-group">

<label for="age">Age</label>

<input type="number" class="form-control" id="age" placeholder="Choose Age" name="age">

<p id="p4"></p>

</div>

<div class="form-group">

<label for="gender">Gender</label>

<input type="radio" id="gender" checked value="Male" name="gender" /><font color="white"> Male</font>

<input type="radio" id="gender" value="Female" name="gender" /><font color="white"> Female</font>

<p id="p6"></p>

</div>

<div class="form-group">

<label for="department">Select the Department</label>

<select id="department" class="form-control" name="department">

<option>Computer Engineering</option>

<option>Electrical Engineering</option>

<option>Mechnical Engineering</option>

<option>Electronics Engineering</option>

<option>Civil Engineering</option>

</select>

<p id="p5"></p>

</div>

<div class="form-group">

<input name="submit" class="btn btn-success" type="submit" value="Submit">

</div>

</form>

</div>

</body>

</html>

**validation.js**

$(document).ready(function(){

$("form").submit(function(){

$("#error1").remove();

var Name=$("#name").val();

var Email=$("#email").val();

var Salary=$("#salary").val();

var Age=$("#age").val();

var Department=$("#department").val();

if(Email=="" || Salary=="" || Age==""

|| Department=="" || Name=="")

{

if(Name=="")

{

$("#p6").html("Name is required");

$("#p6").css({"color":"red"});

}

if(Email=="")

{

$("#p1").html("<p id='error1'>Email is required</p>");

$("#p1").css({"color":"red"});

}

if(Salary=="")

{

$("#p2").html("Password is required");

$("#p2").css({"color":"red"});

}

if(Age=="")

{

$("#p4").html("Age is required");

$("#p4").css({"color":"red"});

}

if(Department=="")

{

$("#p5").html("Birthday is required");

$("#p5").css({"color":"red"});

}

return false;

}

else

{

return true;

}

});

$("#name").keyup(function(){

var name=$("#name").val();

if(name!="")

{

if(name.length>2)

{

$("#p6").html("Name is confirmed");

$("#p6").css({"color":"yellow"});

}

else

{

$("#p6").html("Not a valid name!");

$("#p6").css({"color":"red"});

}

}

else

{

$("#p6").html("Name is not confirmed");

$("#p6").css({"color":"red"});

}

});

$("#email").keyup(function(){

var Email=$("#email").val();

if(Email!="")

{

var regEx = /^([\w-\.]+@([\w-]+\.)+[\w-]{2,4})?$/;

var validEmail = regEx.test(Email);

if (!validEmail)

{

$("#p1").html("Email is not valid");

$("#p1").css({"color":"red"});

}

else

{

$("#p1").html("Email is Valid");

$("#p1").css({"color":"yellow"});

}

}

else

{

$("#p1").html("Email is not Valid");

$("#p1").css({"color":"red"});

}

});

$("#salary").keyup(function(){

var Salary=$("#salary").val();

if(Salary!="")

{

if(Salary.length>2)

{

$("#p2").html("Salary is confirmed");

$("#p2").css({"color":"yellow"});

}

else

{

$("#p2").html("Salary must be greater than 2 digits");

$("#p2").css({"color":"red"});

}

}

else

{

$("#p2").html("Salary is not confirmed");

$("#p2").css({"color":"red"});

}

});

$("#age").keyup(function(){

var Age=$("#age").val();

if(Age!="")

{

if(Age>=18)

{

$("#p4").html("Age is confirmed");

$("#p4").css({"color":"yellow"});

}

else

{

$("#p4").html("Age must be greater than 18");

$("#p4").css({"color":"red"});

}

}

else

{

$("#p4").html("Age is not valid");

$("#p4").css({"color":"red"});

}

});

$("#department").keyup(function(){

var Department=$("#department").val();

if(Department!="")

{

$("#p5").html("Department is confirmed");

$("#p5").css({"color":"yellow"});

}

else

{

$("#p5").html("Department is not valid");

$("#p5").css({"color":"red"});

}

});

});

**Employee.java**

/\*

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\* and open the template in the editor.

\*/

package Pojo;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

public class Employee {

String name;

String email;

String salary;

int age;

String gender;

String department;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getSalary() {

return salary;

}

public void setSalary(String salary) {

this.salary = salary;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getGender() {

return gender;

}

public void setGender(String gender) {

this.gender = gender;

}

public String getDepartment() {

return department;

}

public void setDepartment(String department) {

this.department = department;

}

public Employee(String name, String email, String salary, int age, String gender, String department) {

this.name = name;

this.email = email;

this.salary = salary;

this.age = age;

this.gender = gender;

this.department = department;

}

}

**EmployeeDAO.java**

/\*

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\* and open the template in the editor.

\*/

package DAO;

import Pojo.Employee;

import java.io.IOException;

import static java.lang.System.out;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

public class EmployeeDAO {

//Why too much code in the servlet

public static void insert(Employee obj)

throws IOException {

try

{

//Step-1 : Load the JDBC driver

Class.forName("com.mysql.jdbc.Driver"); // For MySQL

//Step-2 : Define the connection URL

String mysqlURL

= "jdbc:mysql://localhost:3307/tutorial\_4?user=root";

//Step-3 : Establish the connection

Connection con = DriverManager.getConnection(mysqlURL);

//Step-4 : Create a PreparedStatement object

String sql = "INSERT INTO emp (name,email,salary,age,gender,department) "

+ "VALUES (?, ?, ?, ?,?,?)";

//String sql = "UPDATE usersDetails " +

// "SET password=?,conf\_pass=?, age=?,branch=?,msg=?, gender=?, hobby=?" +

// "WHERE username=?";

//String sql = "DELET FROM Users " +

// "WHERE username=?";

PreparedStatement st = con.prepareStatement(sql);

st.setString(1, obj.getName());

st.setString(2, obj.getEmail());

st.setString(3, obj.getSalary());

st.setInt(4, obj.getAge());

st.setString(5, obj.getGender());

st.setString(6,obj.getDepartment());

//Step-5 : Execute a query or update

int rowsInserted = st.executeUpdate();

//Step-7 : Close the connection

con.close();

} catch (ClassNotFoundException cnfe) {

System.err.println("Error loading driver:" + cnfe);

} catch (SQLException sqle) {

System.err.println("Error with connection:" + sqle);

}

}

}

**ConfirmEmpServlet.java**

/\*

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\*/

import DAO.EmployeeDAO;

import Pojo.Employee;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/ConfirmEmpServlet"})

public class ConfirmEmpServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

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

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

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

int age=Integer.parseInt(request.getParameter("age"));

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

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

int id=1;

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<link rel=\"stylesheet\" type=\"text/css\" href=\"css/bootstrap.min.css\">");

out.println("<title>Submmited Data</title>");

out.println("</head>");

out.println("<body>");

out.println("<nav class=\"navbar navbar-expand-lg navbar-dark bg-primary\"><h2 style=\"color:white\";>Employee Details</h2></nav>");

out.println("<div class=\"alert alert-success\" role=\"alert\">");

out.println("<h3>Name: " + name+ "</h3>");

out.println("<h3>Email: " + email+ "</h3>");

out.println("<h3>Salary: " + salary+ "</h3>");

out.println("<h3>Age: " + age + "</h3>");

out.println("<h3>Gender: " + gender + "</h3>");

out.println("<h3>Department: " + department + "</h3>");

Employee obj=new Employee(id,name,email,salary,age,gender,department);

HttpSession session=request.getSession();

session.setAttribute("object",obj);

out.println("<a href=\"SaveEmpServlet\"><button class=\"btn btn-primary\">Confirm</button></a>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**SaveEmpServlet.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import DAO.EmployeeDAO;

import Pojo.Employee;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/SaveEmpServlet"})

public class SaveEmpServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

HttpSession session=request.getSession(false);

Employee obj=(Employee)session.getAttribute("object");

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<link rel=\"stylesheet\" type=\"text/css\" href=\"css/bootstrap.min.css\">");

out.println("<title>Submmited Data | with Session</title>");

out.println("</head>");

out.println("<body>");

out.println("<nav class=\"navbar navbar-expand-lg navbar-dark bg-primary\"><h2 style=\"color:white\";>Employee Details</h2></nav>");

out.println("<div class=\"alert alert-success\" role=\"alert\">");

out.println("<h3>Name: " + obj.getName()+ "</h3>");

out.println("<h3>Email: " + obj.getEmail()+ "</h3>");

out.println("<h3>Salary: " + obj.getAge()+ "</h3>");

out.println("<h3>Age: " + obj.getGender() + "</h3>");

out.println("<h3>Gender: " + obj.getDepartment() + "</h3>");

out.println("<a href=\"html\_session.html\"><button class=\"btn btn-primary\">Back</button></a>");

EmployeeDAO.insert(obj);

out.println("</div>");

out.println("</body>");

out.println("</html>");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

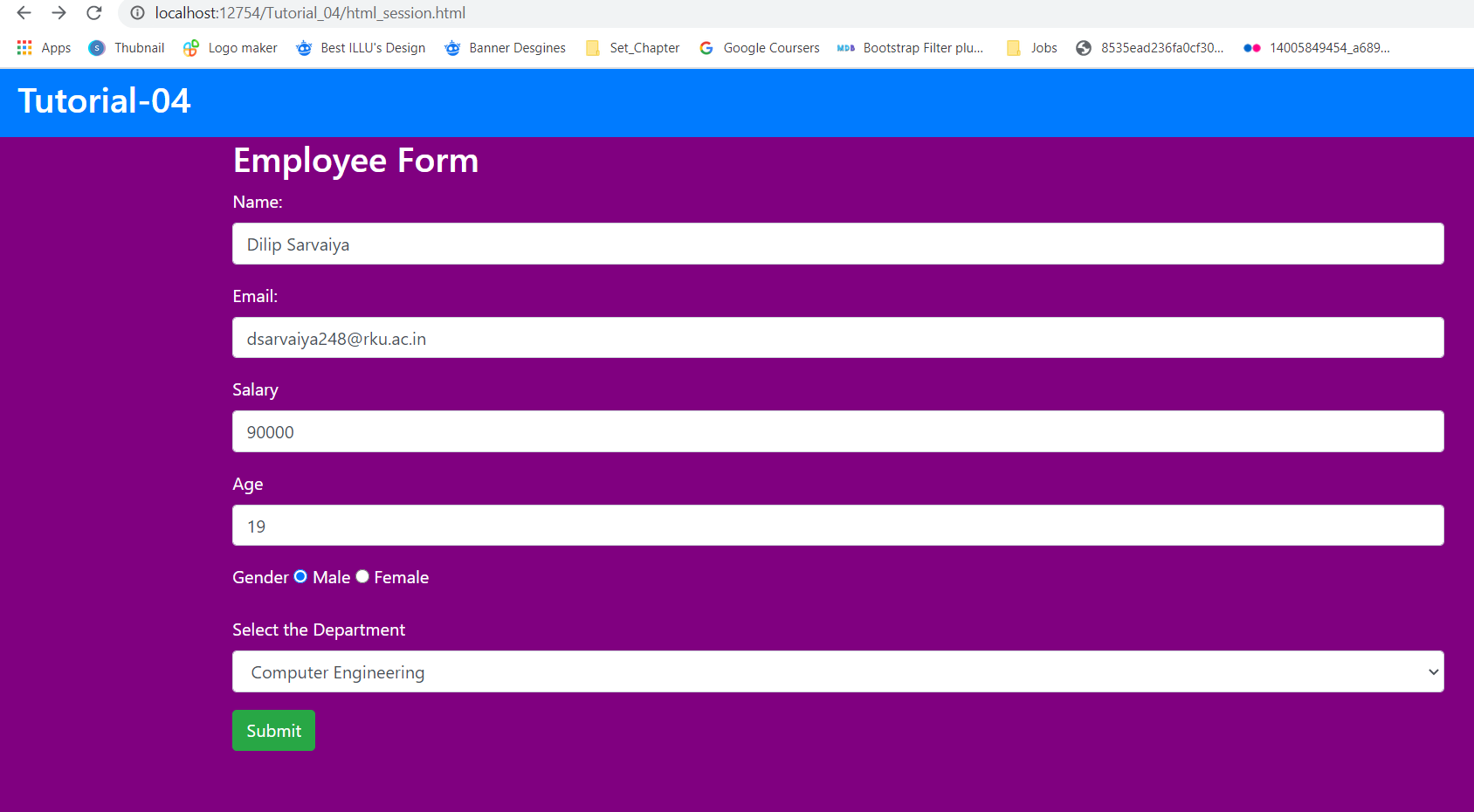
@Override

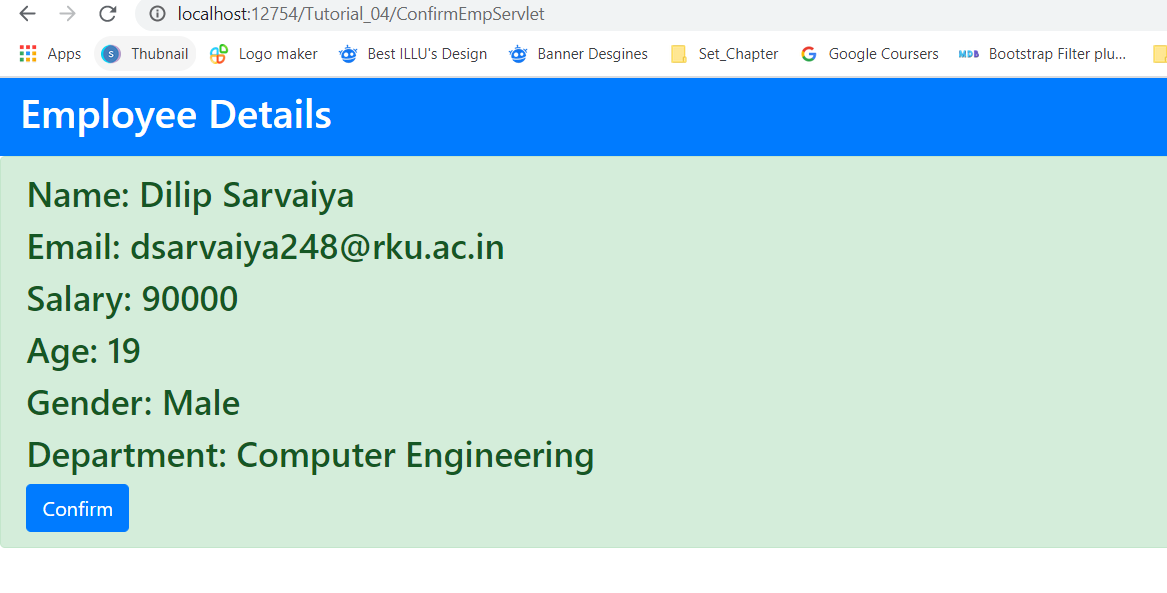
public String getServletInfo() {

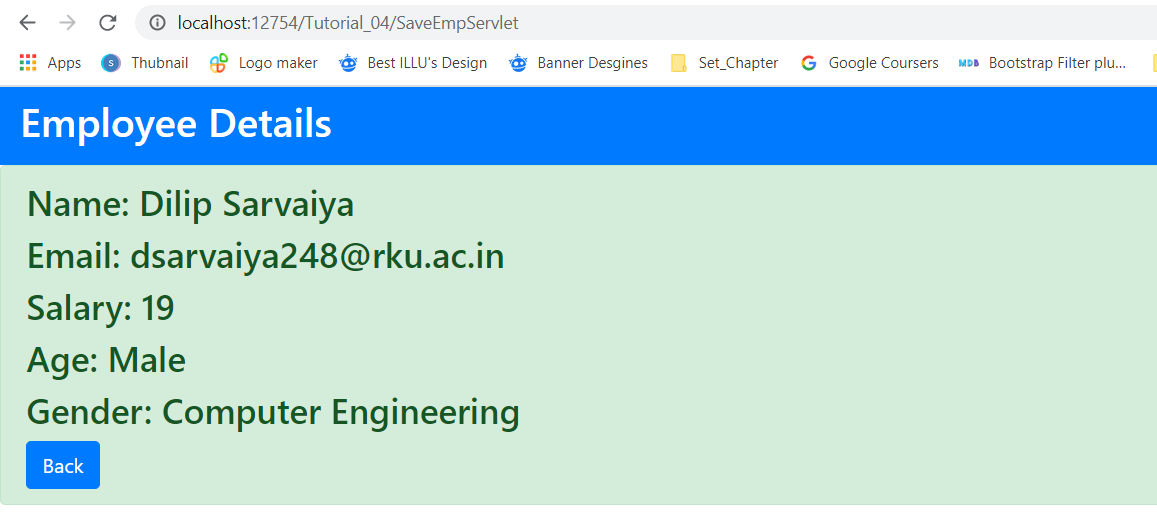
return "Short description";

}// </editor-fold>

}







# 

# 3) Consider following screenshots / tasks for your reference only. Perform tasks of your own problem. You must not create library example but you have to create your own example like product, sales, employee, stock, travels, mobiles etc. by referring below tasks.

(You can use existing themes for html pages)

**Task 1:** Create following table in your database.

CREATE TABLE e\_librarian (

ID int(11) NOT NULL AUTO\_INCREMENT,

NAME VARCHAR(100),

PASSWORD VARCHAR(100),

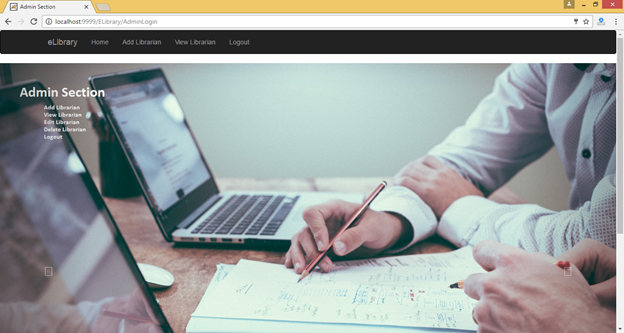
EMAIL varchar(100),

MOBILE int(11),

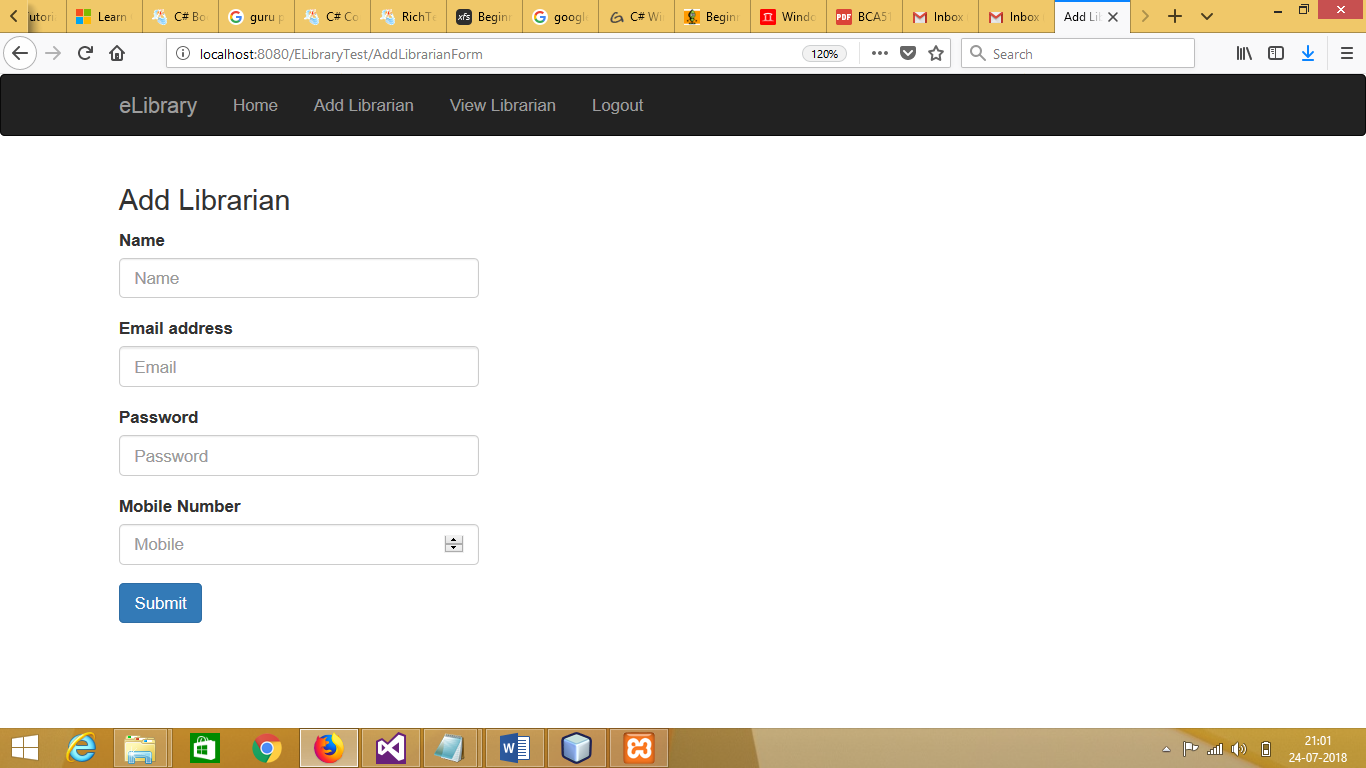
PRIMARY KEY (ID)

)

**Task 2:** Create an html page as follow (Consider this one as your “home page”).

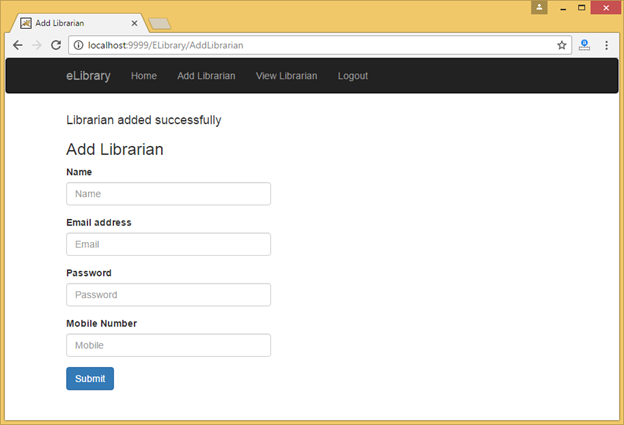


**Task 3:** Create an html page as given below.

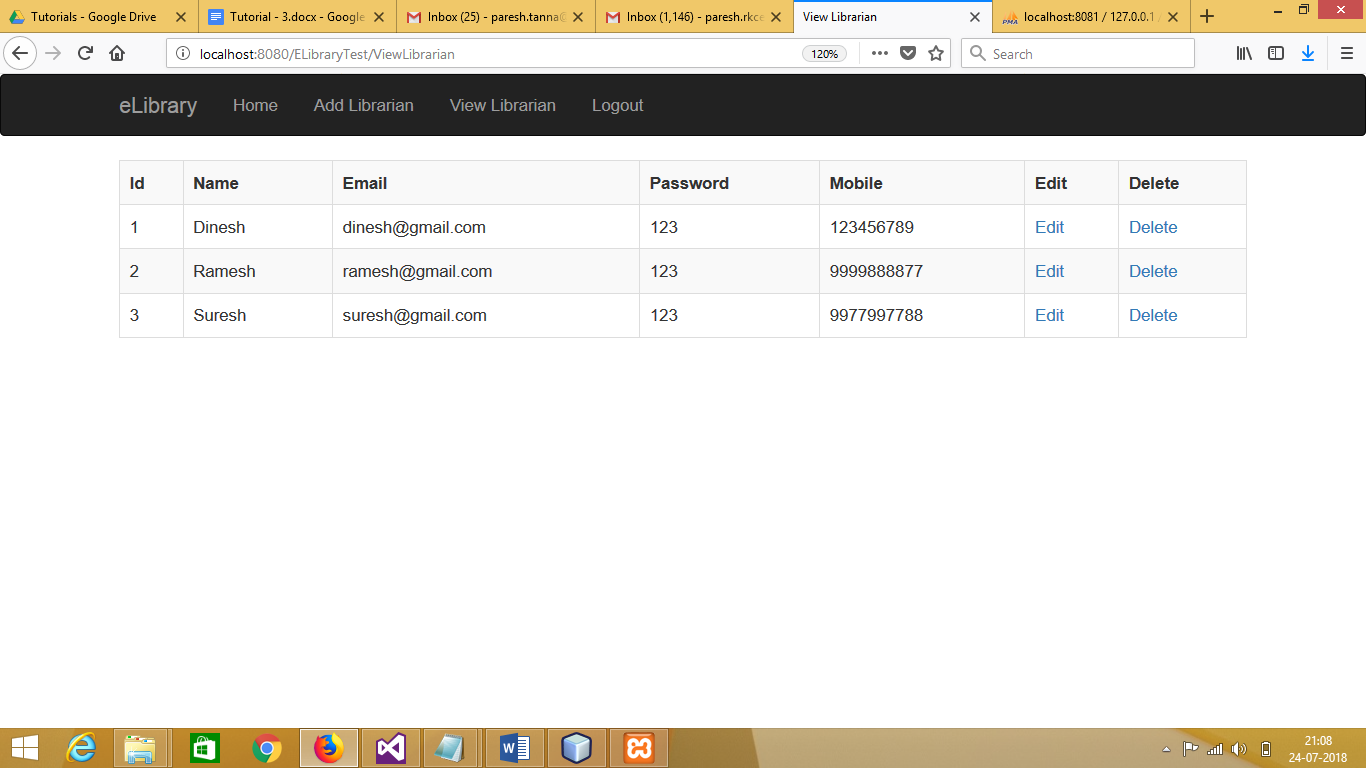


**Task 4:** Create a Servlet Page to insert all details into database table by clicking on Submit button.

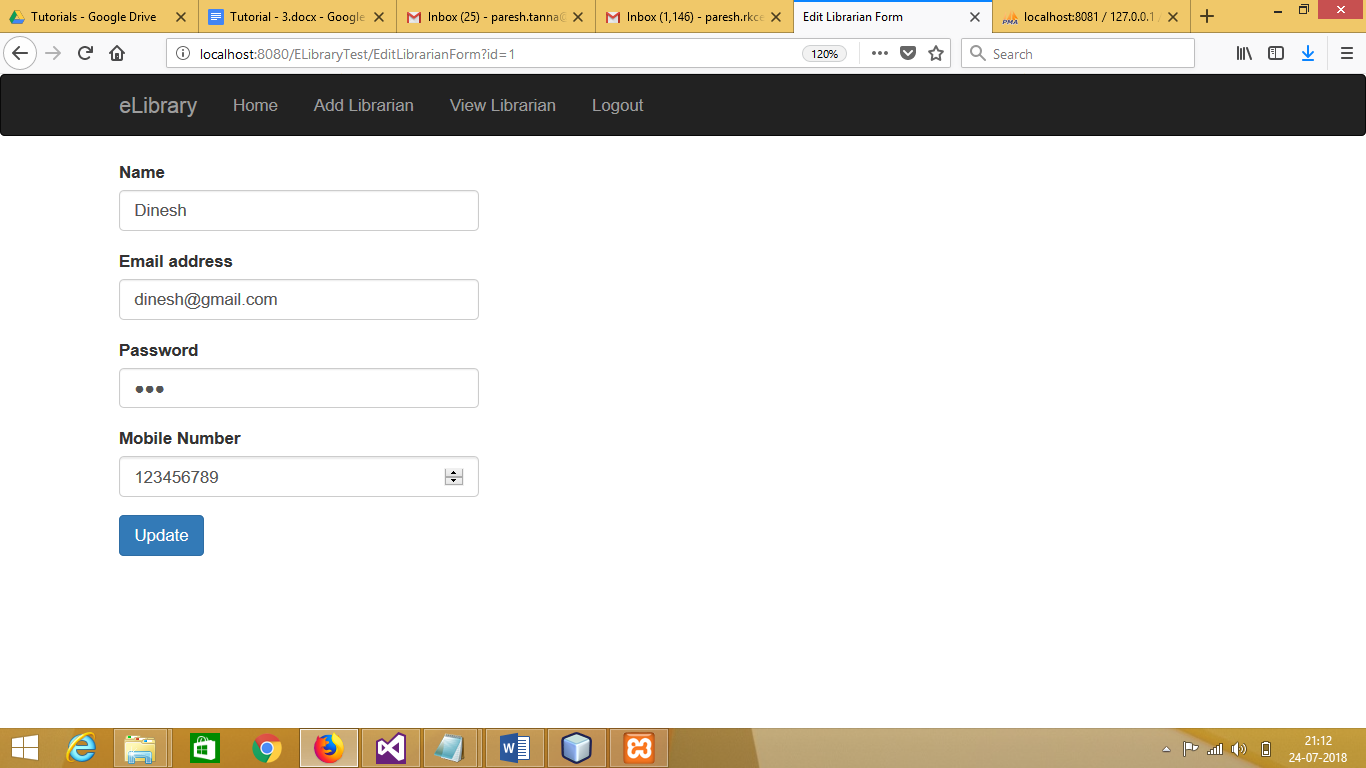
**Task 5:** After successful insertion in Task 4, following form should be displayed.



**Task 6:** Create a servlet to show output as following (This will be shown when user click on “View Librarian”).

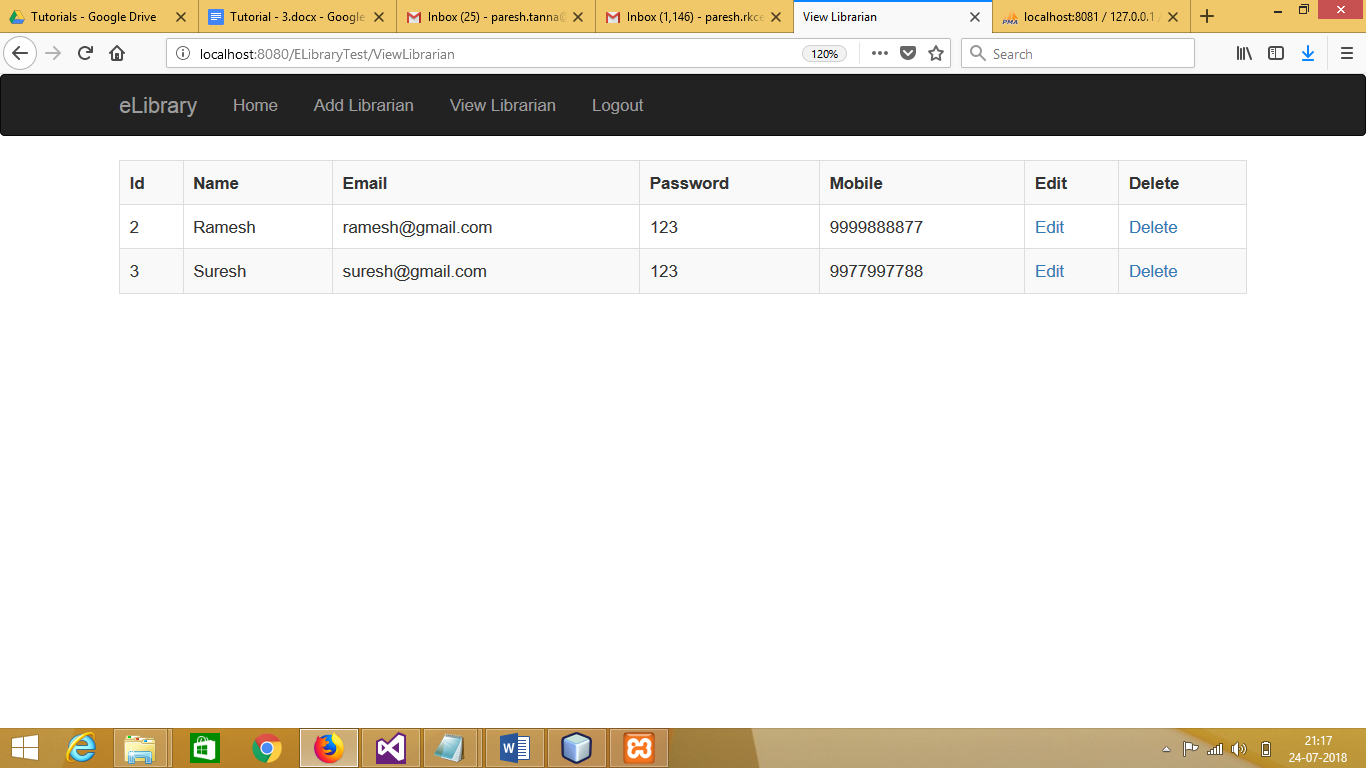


**Task 7:** By clicking on Edit button, following servlet should be display



After changing the information, click on update button that will redirect to UpdateServlet to update the information into database table.

**Task 8:** By clicking on Delete button, will redirect to DeleteServlet to delete the information from database table. After deleting record again following page should be displayed.



**Code:**

**index.html**

<!DOCTYPE html>

<!--

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To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

<head>

<title>Dilip Sarvaiya | Employee Management</title>

<meta charset="UTF-8">

<link rel="stylesheet" href="css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

.navbar-dark .navbar-nav .nav-link

{

color: white;

}

a.disabled

{

pointer-events: none;

cursor:default;

}

</style>

</head>

<body>

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

<a class="navbar-brand disabled" href="#">Employee Management</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarColor02" aria-controls="navbarColor02" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarColor02">

<ul class="navbar-nav mr-auto">

<li class="nav-item active">

<a class="nav-link" href="index.html">Home

<span class="sr-only">(current)</span>

</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ProfileServlet">Add Employee</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ProfileServlet">View Employee</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ProfileServlet">Login</a>

</li>

<li class="nav-item">

<a class="nav-link" href="Session\_logout">Logout</a>

</li>

</ul>

<form class="form-inline my-2 my-lg-0">

<input class="form-control mr-sm-2" type="text" placeholder="Search">

<button class="btn btn-secondary my-2 my-sm-0" type="submit">Search</button>

</form>

</div>

</nav>

<div class="container">

<h2>Admin Section</h2>

<div class="list-group">

<a href="ProfileServlet" class="list-group-item list-group-item-success">Add Employee</a>

<a href="ProfileServlet" class="list-group-item list-group-item-info">View Employee Details</a>

<a href="ProfileServlet" class="list-group-item list-group-item-warning">Edit Employee Details</a>

<a href="ProfileServlet" class="list-group-item list-group-item-danger">Delete Employee</a>

<a href="Session\_logout" class="list-group-item list-group-item-success">Logout</a>

</div>

</div>

</body>

</html>

**validation.js**

$(document).ready(function(){

$("form").submit(function(){

$("#error1").remove();

var Name=$("#name").val();

var Email=$("#email").val();

var Salary=$("#salary").val();

var Age=$("#age").val();

var Department=$("#department").val();

if(Email=="" || Salary=="" || Age==""

|| Department=="" || Name=="")

{

if(Name=="")

{

$("#p6").html("Name is required");

$("#p6").css({"color":"red"});

}

if(Email=="")

{

$("#p1").html("<p id='error1'>Email is required</p>");

$("#p1").css({"color":"red"});

}

if(Salary=="")

{

$("#p2").html("Password is required");

$("#p2").css({"color":"red"});

}

if(Age=="")

{

$("#p4").html("Age is required");

$("#p4").css({"color":"red"});

}

if(Department=="")

{

$("#p5").html("Birthday is required");

$("#p5").css({"color":"red"});

}

return false;

}

else

{

return true;

}

});

$("#name").keyup(function(){

var name=$("#name").val();

if(name!="")

{

if(name.length>2)

{

$("#p6").html("Name is confirmed");

$("#p6").css({"color":"yellow"});

}

else

{

$("#p6").html("Not a valid name!");

$("#p6").css({"color":"red"});

}

}

else

{

$("#p6").html("Name is not confirmed");

$("#p6").css({"color":"red"});

}

});

$("#email").keyup(function(){

var Email=$("#email").val();

if(Email!="")

{

var regEx = /^([\w-\.]+@([\w-]+\.)+[\w-]{2,4})?$/;

var validEmail = regEx.test(Email);

if (!validEmail)

{

$("#p1").html("Email is not valid");

$("#p1").css({"color":"red"});

}

else

{

$("#p1").html("Email is Valid");

$("#p1").css({"color":"yellow"});

}

}

else

{

$("#p1").html("Email is not Valid");

$("#p1").css({"color":"red"});

}

});

$("#salary").keyup(function(){

var Salary=$("#salary").val();

if(Salary!="")

{

if(Salary.length>2)

{

$("#p2").html("Salary is confirmed");

$("#p2").css({"color":"yellow"});

}

else

{

$("#p2").html("Salary must be greater than 2 digits");

$("#p2").css({"color":"red"});

}

}

else

{

$("#p2").html("Salary is not confirmed");

$("#p2").css({"color":"red"});

}

});

$("#age").keyup(function(){

var Age=$("#age").val();

if(Age!="")

{

if(Age>=18)

{

$("#p4").html("Age is confirmed");

$("#p4").css({"color":"yellow"});

}

else

{

$("#p4").html("Age must be greater than 18");

$("#p4").css({"color":"red"});

}

}

else

{

$("#p4").html("Age is not valid");

$("#p4").css({"color":"red"});

}

});

$("#department").keyup(function(){

var Department=$("#department").val();

if(Department!="")

{

$("#p5").html("Department is confirmed");

$("#p5").css({"color":"yellow"});

}

else

{

$("#p5").html("Department is not valid");

$("#p5").css({"color":"red"});

}

});

});

**add\_employee.html**

<!DOCTYPE html>

<!--

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

<head>

<title>Dilip Sarvaiya</title>

<meta charset="UTF-8">

<link rel="stylesheet" href="css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="js/validation.js"></script>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

body

{

background-color: purple;

}

.container

{

padding-bottom:15px;

}

p

{

font-size: 18px;

}

h2,label

{

color:#ffffff;

}

.navbar-dark .navbar-nav .nav-link

{

color: white;

}

a.disabled

{

pointer-events: none;

cursor:default;

}

</style>

</head>

<body>

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

<a class="navbar-brand disabled" >Employee Management</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarColor02" aria-controls="navbarColor02" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarColor02">

<ul class="navbar-nav mr-auto">

<li class="nav-item active">

<a class="nav-link" href="index.html">Home

<span class="sr-only">(current)</span>

</a>

</li>

<li class="nav-item">

<a class="nav-link" href="add\_employee.html">Add Employee</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ViewServlet">View Employee</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ProfileServlet">Login</a>

</li>

<li class="nav-item">

<a class="nav-link" href="Session\_logout">Logout</a>

</li>

</ul>

<form class="form-inline my-2 my-lg-0">

<input class="form-control mr-sm-2" type="text" placeholder="Search">

<button class="btn btn-secondary my-2 my-sm-0" type="submit">Search</button>

</form>

</div>

</nav>

<div class="container">

<h2>Employee Form</h2>

<form method ="post" action="EmployeeDataServlet">

<div class="form-group">

<label for="name">Name:</label>

<input type="text" class="form-control" id="name" placeholder="Enter Name" name="name" />

<p id="p6"></p>

</div>

<div class="form-group">

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

<input type="email" class="form-control" id="email" placeholder="Enter email" name="email" />

<p id="p1"></p>

</div>

<div class="form-group">

<label for="salary">Salary</label>

<input type="number" class="form-control" id="salary" placeholder="Enter salary" name="salary" />

<p id="p2"></p>

</div>

<div class="form-group">

<label for="age">Age</label>

<input type="number" class="form-control" id="age" placeholder="Choose Age" name="age">

<p id="p4"></p>

</div>

<div class="form-group">

<label for="gender">Gender</label>

<input type="radio" id="gender" checked value="Male" name="gender" /><font color="white"> Male</font>

<input type="radio" id="gender" value="Female" name="gender" /><font color="white"> Female</font>

<p id="p6"></p>

</div>

<div class="form-group">

<label for="department">Select the Department</label>

<select id="department" class="form-control" name="department">

<option>Computer Engineering</option>

<option>Electrical Engineering</option>

<option>Mechnical Engineering</option>

<option>Electronics Engineering</option>

<option>Civil Engineering</option>

</select>

<p id="p5"></p>

</div>

<div class="form-group">

<input name="submit" class="btn btn-success" type="submit" value="Submit">

</div>

</form>

</div>

</body>

</html>

**employee\_login.html**

<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">

<title>Login Page</title>

<style>

#form\_1

{

padding-left: 100px;

}

#form\_2

{

padding-left: 150px;

}

</style>

</head>

<body>

<table>

<tr>

<td>

<div class="container">

<form method="post" action="Employee\_login\_Servlet" id="form\_1">

<h2>Employee Login</h2>

<div class="form-group">

<b><label for="exampleInputEmail1">Email address</label></b>

<input size="40" type="email" name="email" class="form-control" aria-describedby="emailHelp" placeholder="Email"/>

</div>

<div class="form-group">

<b><label for="exampleInputPassword1">Password</label></b>

<input size="40" type="password" name="password" class="form-control" placeholder="Password">

</div>

<input type="submit" class="btn btn-primary" value="Submit" />

</form>

</div>

</td>

</tr>

</table>

</body>

</html>

**template\_crud.html**

<!DOCTYPE html>

<!--

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and open the template in the editor.

-->

<html>

<head>

<title>Dilip Sarvaiya | Employee Management</title>

<meta charset="UTF-8">

<link rel="stylesheet" href="css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

.navbar-dark .navbar-nav .nav-link

{

color: white;

}

a.disabled

{

pointer-events: none;

cursor:default;

}

</style>

</head>

<body>

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

<a class="navbar-brand disabled" href="#">Employee Management</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarColor02" aria-controls="navbarColor02" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarColor02">

<ul class="navbar-nav mr-auto">

<li class="nav-item active">

<a class="nav-link" href="index.html">Home

<span class="sr-only">(current)</span>

</a>

</li>

<li class="nav-item">

<a class="nav-link" href="add\_employee.html">Add Employee</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ViewServlet">View Employee</a>

</li>

<li class="nav-item">

<a class="nav-link" href="ProfileServlet">Login</a>

</li>

<li class="nav-item">

<a class="nav-link" href="Session\_logout">Logout</a>

</li>

</ul>

<form class="form-inline my-2 my-lg-0">

<input class="form-control mr-sm-2" type="text" placeholder="Search">

<button class="btn btn-secondary my-2 my-sm-0" type="submit">Search</button>

</form>

</div>

</nav>

<div class="container">

<h2>Admin Section</h2>

<div class="list-group">

<a href="add\_employee.html" class="list-group-item list-group-item-success">Add Employee</a>

<a href="ViewServlet" class="list-group-item list-group-item-info">View Employee Details</a>

<a href="ViewServlet" class="list-group-item list-group-item-warning">Edit Employee Details</a>

<a href="ViewServlet" class="list-group-item list-group-item-danger">Delete Employee</a>

<a href="Session\_logout" class="list-group-item list-group-item-success">Logout</a>

</div>

</div>

</body>

</html>

**Servlets**

**DeleteServlet.java**

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import DAO.EmployeeDAO;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/DeleteServlet"})

public class DeleteServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

String sid=request.getParameter("id");

int id=Integer.parseInt(sid);

EmployeeDAO.delete(id);

response.sendRedirect("ViewServlet");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**EditServlet.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import Pojo.Employee;

import DAO.EmployeeDAO;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/EditServlet"})

public class EditServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

String sid=request.getParameter("id");

int id=Integer.parseInt(sid);

Employee e=EmployeeDAO.getEmployeeById(id);

out.println("<!DOCTYPE html>\n" +

"<!--\n" +

"To change this license header, choose License Headers in Project Properties.\n" +

"To change this template file, choose Tools | Templates\n" +

"and open the template in the editor.\n" +

"-->\n" +

"<html>\n" +

" <head>\n" +

" <title>Dilip Sarvaiya</title>\n" +

" <meta charset=\"UTF-8\">\n" +

" \n" +

" <link rel=\"stylesheet\" href=\"css/bootstrap.min.css\" />\n" +

" <script src=\"https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js\"></script>\n" +

" <script src=\"js/validation.js\"></script>\n" +

" <meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">\n" +

" \n" +

" <style>\n" +

" body\n" +

" {\n" +

" background-color: purple;\n" +

" \n" +

" }\n" +

" .container\n" +

" {\n" +

" \n" +

" padding-bottom:15px;\n" +

" }\n" +

" p\n" +

" {\n" +

" font-size: 18px;\n" +

" }\n" +

" h2,label\n" +

" {\n" +

" color:#ffffff;\n" +

" }\n" +

" .navbar-dark .navbar-nav .nav-link\n"+

" {\n"+

" color: white\n" +

" }\n" +

" \n" +

" .navbar-dark .navbar-nav .nav-link\n" +

" {\n" +

" color: white; \n" +

" }\n" +

" a.disabled\n" +

" {\n" +

" pointer-events: none;\n" +

" cursor:default;\n" +

" }\n" +

" </style>\n" +

" </head>\n" +

" <body>\n" +

" <nav class=\"navbar navbar-expand-lg navbar-dark bg-dark\">\n" +

" <a class=\"navbar-brand disabled\" >Employee Management</a>\n" +

" <button class=\"navbar-toggler\" type=\"button\" data-toggle=\"collapse\" data-target=\"#navbarColor02\" aria-controls=\"navbarColor02\" aria-expanded=\"false\" aria-label=\"Toggle navigation\">\n" +

" <span class=\"navbar-toggler-icon\"></span>\n" +

" </button>\n" +

"\n" +

" <div class=\"collapse navbar-collapse\" id=\"navbarColor02\">\n" +

" <ul class=\"navbar-nav mr-auto\">\n" +

" <li class=\"nav-item active\">\n" +

" <a class=\"nav-link\" href=\"index.html\">Home\n" +

" <span class=\"sr-only\">(current)</span>\n" +

" </a>\n" +

" </li>\n" +

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"add\_employee.html\">Add Employee</a>\n" +

" </li>\n" +

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"ViewServlet\">View Employee</a>\n" +

" </li>\n" +

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"ProfileServlet\">Login</a>\n" +

" </li>"+

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"Session\_logout\">Logout</a>\n" +

" </li>\n" +

" \n" +

" </ul>\n" +

" <form class=\"form-inline my-2 my-lg-0\">\n" +

" <input class=\"form-control mr-sm-2\" type=\"text\" placeholder=\"Search\">\n" +

" <button class=\"btn btn-secondary my-2 my-sm-0\" type=\"submit\">Search</button>\n" +

" </form>\n" +

" </div>\n" +

"</nav>"+

" <div class=\"container\">\n" +

" <h2>Employee Form</h2>\n" +

" <form method =\"post\" action=\"EditServlet2\">\n" +

" <input type='hidden' name='id' value='"+e.getId()+"' />\n"+

" <div class=\"form-group\">\n" +

" <label for=\"name\">Name:</label>\n" +

" <input type=\"text\" class=\"form-control\" id=\"name\" value='"+e.getName()+"' placeholder=\"Enter Name\" name=\"name\" />\n" +

" <p id=\"p6\"></p>\n" +

" </div>\n" +

" <div class=\"form-group\">\n" +

" <label for=\"email\">Email:</label>\n" +

" <input type=\"email\" class=\"form-control\" id=\"email\" value='"+e.getEmail()+"' placeholder=\"Enter email\" name=\"email\" />\n" +

" <p id=\"p1\"></p>\n" +

" </div>\n" +

" <div class=\"form-group\">\n" +

" <label for=\"salary\">Salary</label>\n" +

" <input type=\"number\" class=\"form-control\" id=\"salary\" value='"+e.getSalary()+"' placeholder=\"Enter salary\" name=\"salary\" />\n" +

" <p id=\"p2\"></p>\n" +

" </div>\n" +

" <div class=\"form-group\">\n" +

" <label for=\"age\">Age</label>\n" +

" <input type=\"number\" class=\"form-control\" id=\"age\" value='"+e.getAge()+"' placeholder=\"Choose Age\" name=\"age\">\n" +

" <p id=\"p4\"></p>\n" +

" </div>\n" +

" <div class=\"form-group\"> \n" +

" <label for=\"gender\">Gender</label>\n" +

" <input type=\"radio\" id=\"gender\" checked value=\"Male\" name=\"gender\" /><font color=\"white\"> Male</font>\n" +

" <input type=\"radio\" id=\"gender\" value=\"Female\" name=\"gender\" /><font color=\"white\"> Female</font>\n" +

" <p id=\"p6\"></p>\n" +

" </div>\n" +

" <div class=\"form-group\">\n" +

" <label for=\"department\">Select the Department</label>\n" +

" <select id=\"department\" class=\"form-control\" name=\"department\">\n" +

" <option>Computer Engineering</option>\n" +

" <option>Electrical Engineering</option>\n" +

" <option>Mechnical Engineering</option>\n" +

" <option>Electronics Engineering</option>\n" +

" <option>Civil Engineering</option>\n" +

" </select>\n" +

" <p id=\"p5\"></p>\n" +

" </div>\n" +

" <div class=\"form-group\">\n" +

" <input name=\"submit\" class=\"btn btn-success\" type=\"submit\" value=\"Submit\">\n" +

" </div>\n" +

" </form>\n" +

" </div>\n" +

" </body>\n" +

"</html> ");

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**EditServlet2.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import DAO.EmployeeDAO;

import Pojo.Employee;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/EditServlet2"})

public class EditServlet2 extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

String sid=request.getParameter("id");

int id=Integer.parseInt(sid);

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

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

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

int age=Integer.parseInt(request.getParameter("age"));

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

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

Employee e=new Employee(id,name,email,salary,age,gender,department);

int status=EmployeeDAO.update(e);

if(status>0){

response.sendRedirect("ViewServlet");

}else{

out.println("Sorry! unable to update record");

}

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**Employee\_login\_Servlet.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/Employee\_login\_Servlet"})

public class Employee\_login\_Servlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

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

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

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet librarian\_login\_Servlet</title>");

out.println("</head>");

out.println("<body>");

if(email.equals("abc@rku.ac.in") && password.equals("abc123"))

{

HttpSession session=request.getSession();

session.setAttribute("email",email);

// response.sendRedirect("");

out.println("<font style=\"padding-left: 120px;\" color=\"blue\">Login suceesfully..</font>");

RequestDispatcher rd=request.getRequestDispatcher("template\_crud.html");

rd.forward(request, response);

// ServletContext sc=getServletContext();

// sc.setAttribute("email", email);

//

}

else

{

out.println("<font style=\"padding-left: 120px;\" color=\"red\">Username or password is incorrect!</font>");

RequestDispatcher rd=request.getRequestDispatcher("employee\_login.html");

rd.include(request, response);

}

out.println("</body>");

out.println("</html>");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**ProfileServlet.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/ProfileServlet"})

public class ProfileServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

// out.println("You are successfully ogged in");

// out.println("<h1>Welcome " +email + "</h1>");

// out.print("<a href=\"Logout\_Cookie\"><button clsss=\"btn btn-danger\">Logout</button></a>");

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<link rel=\"stylesheet\" type=\"text/css\" href=\"css/bootstrap.min.css\">");

out.println("<title>Servlet librarian\_login\_Servlet</title>");

out.println("</head>");

out.println("<body>");

HttpSession session=request.getSession(false);

if(session!=null)

{

out.println("<font style=\"padding-left: 120px; font-weight: bold;\" color=\"green\">You are successfully Logged In.</font>");

String email=(String)session.getAttribute("email");

RequestDispatcher rd=request.getRequestDispatcher("template\_crud.html");

rd.forward(request, response);

}

else

{

out.println("<div class=\"alert alert-danger\" role=\"alert\">\n" +

" You are not Logged in!\n" +

"</div>");

RequestDispatcher rd=request.getRequestDispatcher("employee\_login.html");

rd.include(request, response);

}

out.println("</body>");

out.println("</html>");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**Session\_logout.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/Session\_logout"})

public class Session\_logout extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

// ServletContext sc=getServletContext();

// String email=(String)sc.getAttribute("email");

RequestDispatcher rd=request.getRequestDispatcher("index.html");

rd.include(request, response);

HttpSession session=request.getSession();

session.invalidate();

out.println("<font style=\"padding-left: 120px; font-weight: bold;\" color=\"green\">You are successfully logged out..</font>");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**ViewServlet.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import DAO.EmployeeDAO;

import Pojo.Employee;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

@WebServlet(urlPatterns = {"/ViewServlet"})

public class ViewServlet extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Submmited Data</title>");

out.println(" <link rel=\"stylesheet\" href=\"css/bootstrap.min.css\" />");

out.println("<script src=\"https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js\"></script>");

out.println("<script>\n" +

" $(\"document\").ready(function(){\n" +

" $(\".btn-danger\").click(function(){\n" +

" $(this).closest('tr').fadeOut(\n" +

" 1000,\n" +

" function(){\n" +

" $(this).remove();\n" +

" });\n" +

" });\n" +

" });\n" +

"</script>\n" +

"<style>\n" +

"#button{\n" +

" float:right;\n" +

" display:block;\n" +

" margin-right:0px;\n" +

" clear:left;\n" +

" margin:5px;\n" +

"}\n" +

"h1 {\n" +

" text-shadow: 2px 2px #99ff66;\n" +

"}\n" +

"table {\n" +

" border-collapse: collapse;\n" +

" border-spacing: 0;\n" +

" width: 100%;\n" +

" border: 5px solid #ff3030;\n" +

" outline: 8px yellow;\n" +

"}\n" +

"th {\n"+

"background-color: #21FF37;\n"+

"}\n" +

"th, td {\n" +

" text-align: left;\n" +

" padding: 15px;\n" +

" font-size:18px;\n" +

" background-repeat:no-repeat;\n" +

" font-family:Cambria Math;\n" +

" outline: 2px double green;\n" +

" border: 1px solid yellow;\n" +

" outline-style: double;\n" +

" outline-color: blue;\n" +

"}\n" +

" .navbar-dark .navbar-nav .nav-link\n"+

" {\n"+

" color: white\n" +

" }\n" +

" .navbar-dark .navbar-nav .nav-link\n" +

" {\n" +

" color: white; \n" +

" }\n" +

" a.disabled\n" +

" {\n" +

" pointer-events: none;\n" +

" cursor:default;\n" +

" }\n" +

"tr:nth-child(even){background-color: #fef700fa}"+

"tr:nth-child(odd){background-color: #1cfc6c}"+

"</style>\n");

out.println("</head>");

out.println("<body>"+

"<nav class=\"navbar navbar-expand-lg navbar-dark bg-dark\">\n" +

" <a class=\"navbar-brand\" >Employee Management</a>\n" +

" <button class=\"navbar-toggler\" type=\"button\" data-toggle=\"collapse\" data-target=\"#navbarColor02\" aria-controls=\"navbarColor02\" aria-expanded=\"false\" aria-label=\"Toggle navigation\">\n" +

" <span class=\"navbar-toggler-icon\"></span>\n" +

" </button>\n" +

"\n" +

" <div class=\"collapse navbar-collapse\" id=\"navbarColor02\">\n" +

" <ul class=\"navbar-nav mr-auto\">\n" +

" <li class=\"nav-item active\">\n" +

" <a class=\"nav-link\" href=\"index.html\">Home\n" +

" <span class=\"sr-only\">(current)</span>\n" +

" </a>\n" +

" </li>\n" +

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"add\_employee.html\">Add Employee</a>\n" +

" </li>\n" +

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"ViewServlet\">View Employee</a>\n" +

" </li>\n" +

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"ProfileServlet\">Login</a>\n" +

" </li>"+

" <li class=\"nav-item\">\n" +

" <a class=\"nav-link\" href=\"Session\_logout\">Logout</a>\n" +

" </li>\n" +

" \n" +

" </ul>\n" +

" <form class=\"form-inline my-2 my-lg-0\">\n" +

" <input class=\"form-control mr-sm-2\" type=\"text\" placeholder=\"Search\">\n" +

" <button class=\"btn btn-secondary my-2 my-sm-0\" type=\"submit\">Search</button>\n" +

" </form>\n" +

" </div>\n" +

"</nav>"+

"<div class=\"container\">\n" +

"<h1 class=\"text-primary\" align=\"center\">Employee Details</h1>\n" +

" <table class=\"table table-stripped\" \"table table-bordered\">");

List<Employee> list=EmployeeDAO.getAllEmployees();

out.print("<table class=\"table table-striped table-hover\" border='1' width='100%'");

out.print("<tr><th>Id</th><th>Name</th><th>Email</th><th>Salary</th><th>Age</th><th>Gender</th><th>Select the Department<th colspan='2'>Action</th></tr>");

for(Employee e:list){

out.print("<tr><td>"+e.getId()+"</td><td>"+e.getName()+"</td><td>"+e.getEmail()+"</td>"+

"<td>"+e.getSalary()+"</td><td>"+e.getAge()+"</td><td>"+e.getGender()+"</td>"+

"<td>"+e.getDepartment()+"</td>"+

"<td><a href='EditServlet?id="+e.getId()+"'><button type=\"button\" class=\"btn btn-primary\">Edit</button></a></td>" +

"<td><a href='DeleteServlet?id="+e.getId()+"'><button type=\"button\" class=\"btn btn-danger\">Delete</button></a></td></tr>");

}

out.print("</table>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**EmployeeDAO.java**

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package DAO;

import Pojo.Employee;

import java.io.IOException;

import static java.lang.System.out;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.List;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

public class EmployeeDAO {

public static Connection getConnection(){

Connection con=null;

try{

//Step-1 : Load the JDBC driver

Class.forName("com.mysql.jdbc.Driver");

//Step-2 : Define the connection URL

String mysqlURL

= "jdbc:mysql://localhost:3307/tutorial\_4?user=root";

con=DriverManager.getConnection(mysqlURL);

}catch(Exception e){System.out.println(e);}

return con;

}

public static int delete(int id)

throws IOException {

int rowsDeleted=0;

try

{

//Step-3 : Establish the connection

Connection con = EmployeeDAO.getConnection();

//Step-4 : Create a PreparedStatement object

//String sql = "INSERT INTO userdetails (email,password,conf\_pass, age,branch,msg, gender, hobby) "

// + "VALUES (?, ?, ?, ?,?,?,?,?)";

String sql = "DELETE from emp " +

"WHERE id=?";

//String sql = "DELET FROM Users " +

// "WHERE username=?";

PreparedStatement st = con.prepareStatement(sql);

st.setInt(1, id);

//Step-5 : Execute a query or update

rowsDeleted = st.executeUpdate();

System.out.println(rowsDeleted);

//Step-7 : Close the connection

con.close();

} catch (SQLException sqle) {

System.err.println("Error with connection:" + sqle);

}

return rowsDeleted;

}

public static Employee getEmployeeById(int id){

Employee e = null;

try{

Connection con=EmployeeDAO.getConnection();

PreparedStatement ps=con.prepareStatement("select \* from emp where id=?");

ps.setInt(1,id);

ResultSet rs=ps.executeQuery();

if(rs.next()){

e=new Employee(rs.getInt(1),rs.getString(2),rs.getString(3),rs.getString(4),rs.getInt(5),rs.getString(6),rs.getString(7));

}

con.close();

}catch(Exception ex){ex.printStackTrace();}

return e;

}

public static int update(Employee obj)

throws IOException {

int rowsUpdated=0;

try

{

//Step-3 : Establish the connection

Connection con = EmployeeDAO.getConnection();

//Step-4 : Create a PreparedStatement object

//String sql = "INSERT INTO userdetails (email,password,conf\_pass, age,branch,msg, gender, hobby) "

// + "VALUES (?, ?, ?, ?,?,?,?,?)";

String sql = "UPDATE emp " +

"SET name=?,email=?,salary=?, gender=?, age=?,department=?"+

"WHERE id=?";

//String sql = "DELET FROM Users " +

// "WHERE username=?";

PreparedStatement st = con.prepareStatement(sql);

st.setString(1,obj.getName());

st.setString(2, obj.getEmail());

st.setString(3, obj.getSalary());

st.setString(4, obj.getGender());

st.setInt(5, obj.getAge());

st.setString(6,obj.getDepartment());

st.setInt(7,obj.getId());

//Step-5 : Execute a query or update

rowsUpdated = st.executeUpdate();

System.out.println(rowsUpdated);

//Step-7 : Close the connection

con.close();

} catch (SQLException sqle) {

System.err.println("Error with connection:" + sqle);

}

return rowsUpdated;

}

//Why too much code in the servlet

public static void insert(Employee obj)

throws IOException {

try

{

//Step-3 : Establish the connection

Connection con = EmployeeDAO.getConnection();

//Step-4 : Create a PreparedStatement object

String sql = "INSERT INTO emp (name,email,salary,age,gender,department) "

+ "VALUES (?, ?, ?, ?,?,?)";

//String sql = "UPDATE usersDetails " +

// "SET password=?,conf\_pass=?, age=?,branch=?,msg=?, gender=?, hobby=?" +

// "WHERE username=?";

//String sql = "DELET FROM Users " +

// "WHERE username=?";

PreparedStatement st = con.prepareStatement(sql);

st.setString(1, obj.getName());

st.setString(2, obj.getEmail());

st.setString(3, obj.getSalary());

st.setInt(4, obj.getAge());

st.setString(5, obj.getGender());

st.setString(6,obj.getDepartment());

//Step-5 : Execute a query or update

int rowsInserted = st.executeUpdate();

//Step-7 : Close the connection

con.close();

} catch(Exception ex){ex.printStackTrace();}

}

public static List<Employee> getAllEmployees(){

List<Employee> list=new ArrayList<Employee>();

try{

Connection con=EmployeeDAO.getConnection();

PreparedStatement ps=con.prepareStatement("select \* from emp");

ResultSet rs=ps.executeQuery();

while(rs.next()){

Employee e=new Employee(rs.getInt(1),rs.getString(2),rs.getString(3),rs.getString(4),rs.getInt(5),rs.getString(6),rs.getString(7));

list.add(e);

}

con.close();

}catch(Exception e){e.printStackTrace();}

return list;

}

}

**Employee.java**

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package Pojo;

/\*\*

\*

\* @author Dilip J Sarvaiya

\*/

public class Employee {

String name;

String email;

String salary;

int age,id;

String gender;

String department;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getSalary() {

return salary;

}

public void setSalary(String salary) {

this.salary = salary;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getGender() {

return gender;

}

public void setGender(String gender) {

this.gender = gender;

}

public String getDepartment() {

return department;

}

public void setDepartment(String department) {

this.department = department;

}

public Employee(int id,String name, String email, String salary, int age, String gender, String department) {

this.id=id;

this.name = name;

this.email = email;

this.salary = salary;

this.age = age;

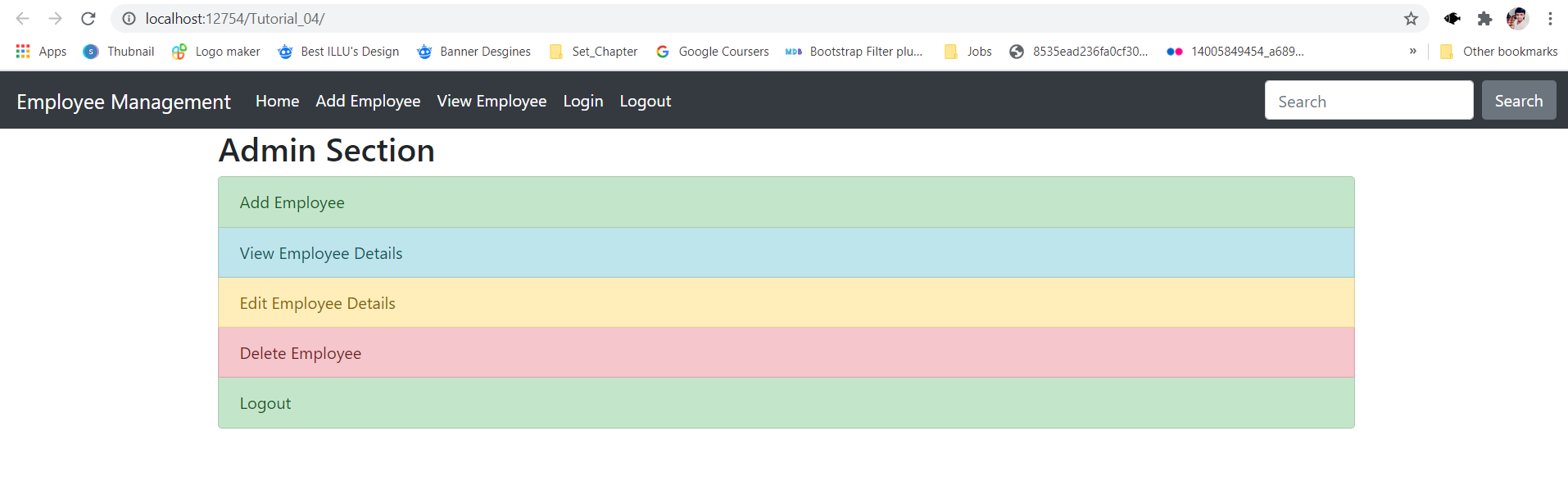
this.gender = gender;

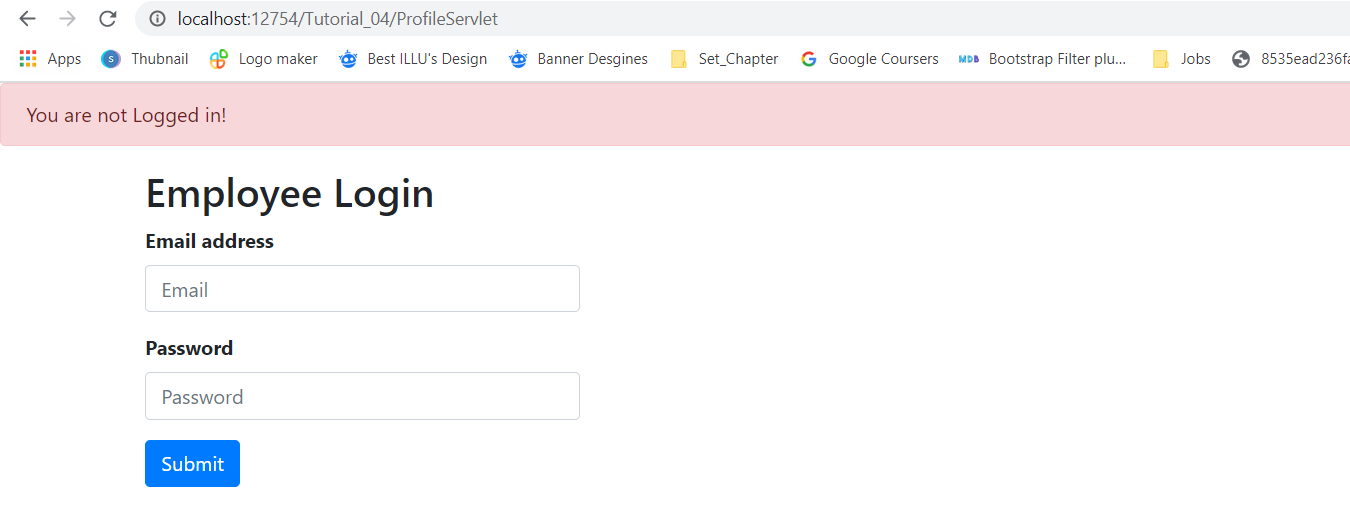
this.department = department;

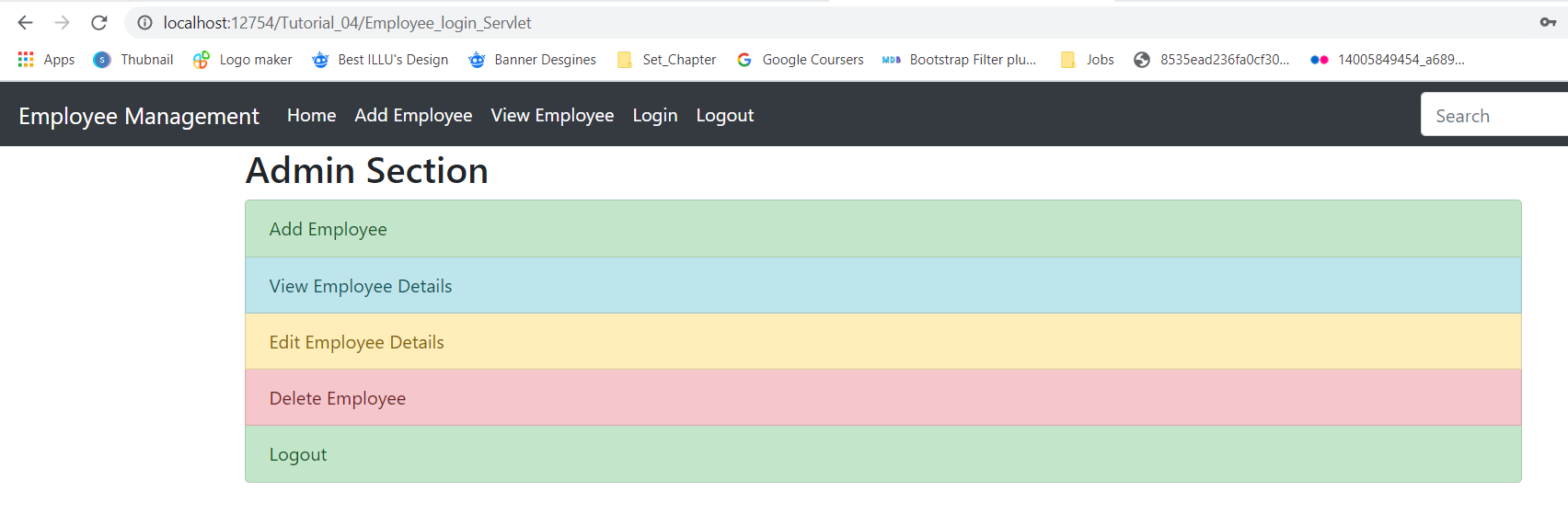
}

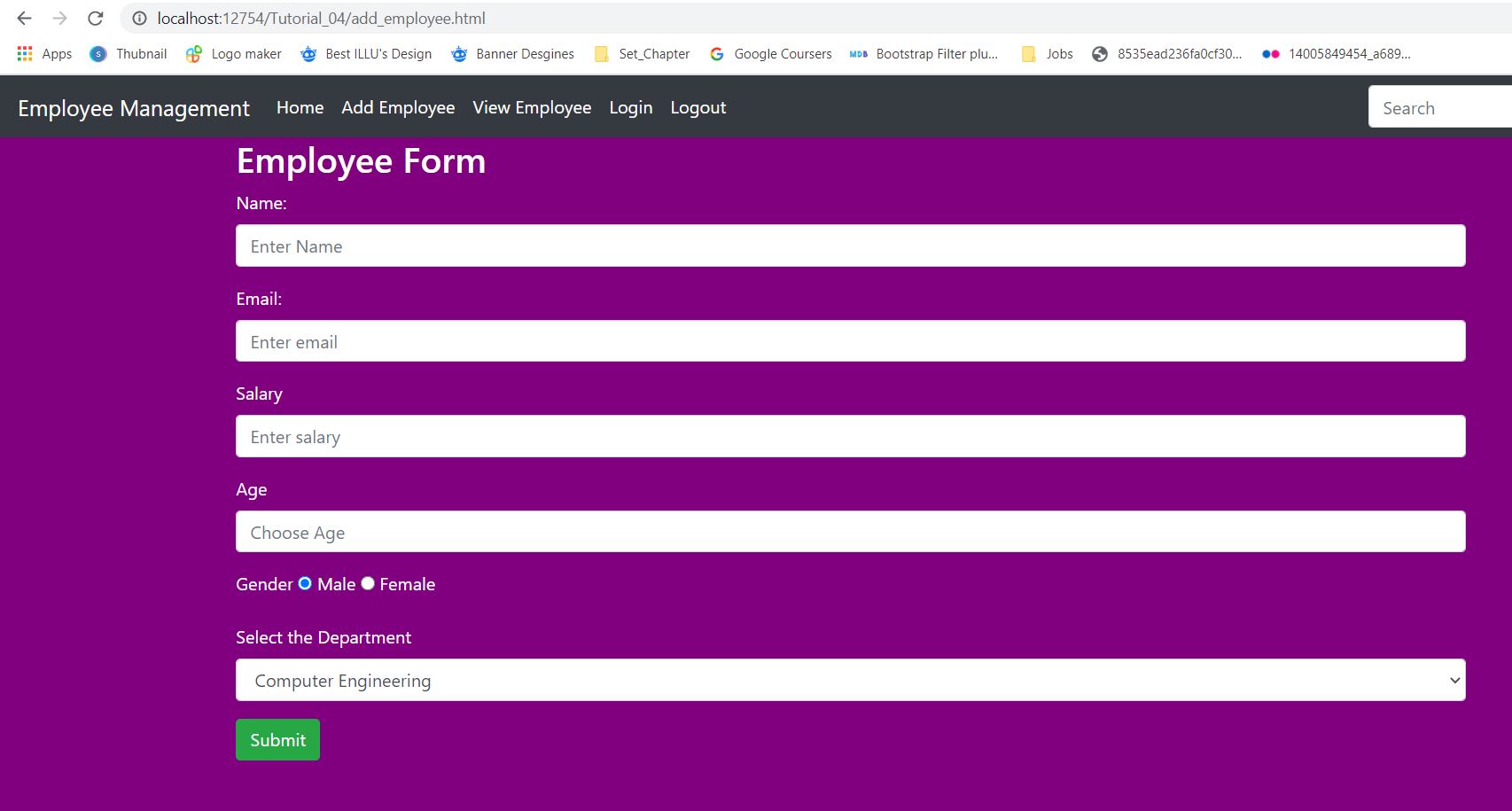
}

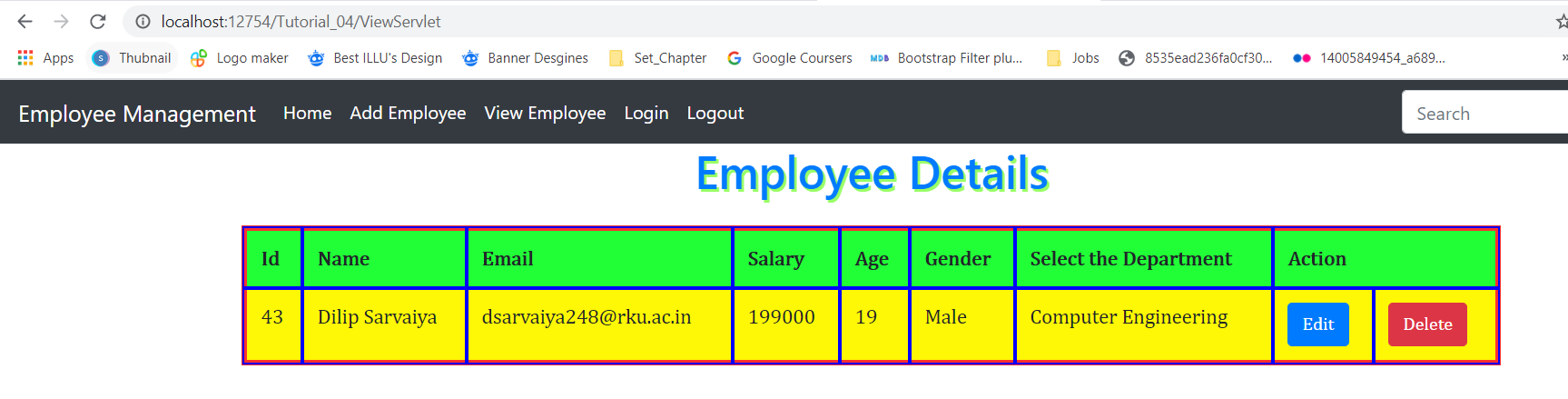
**Output:**

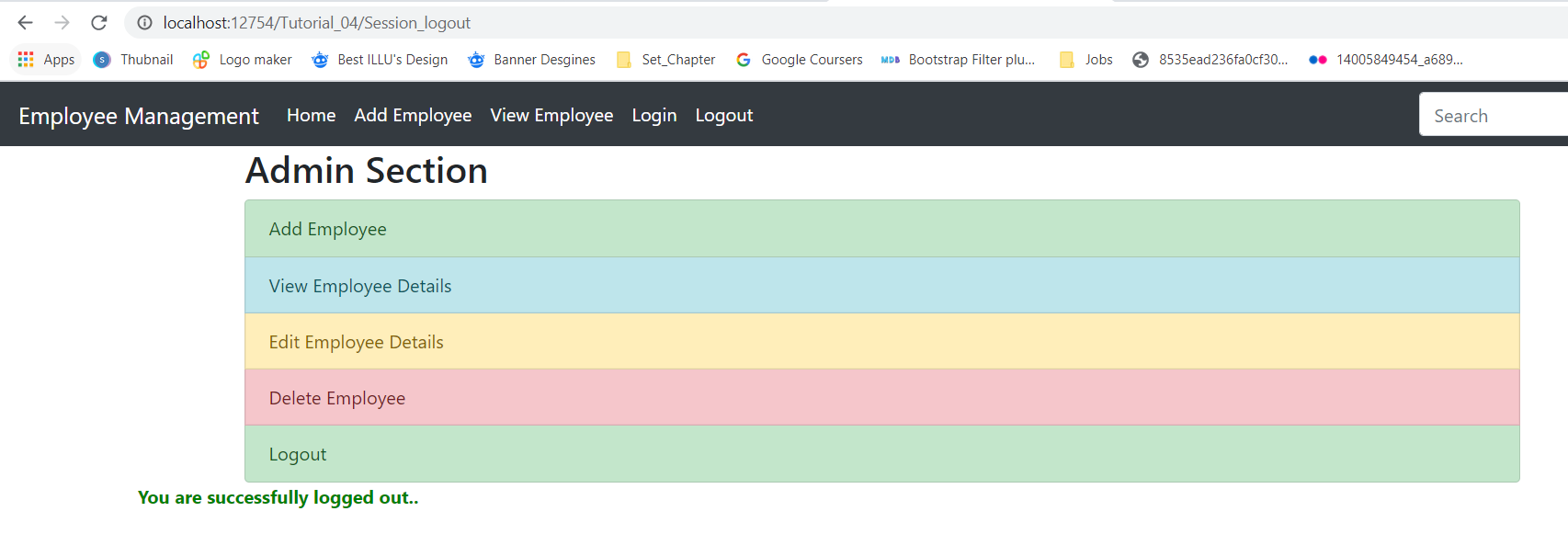
****

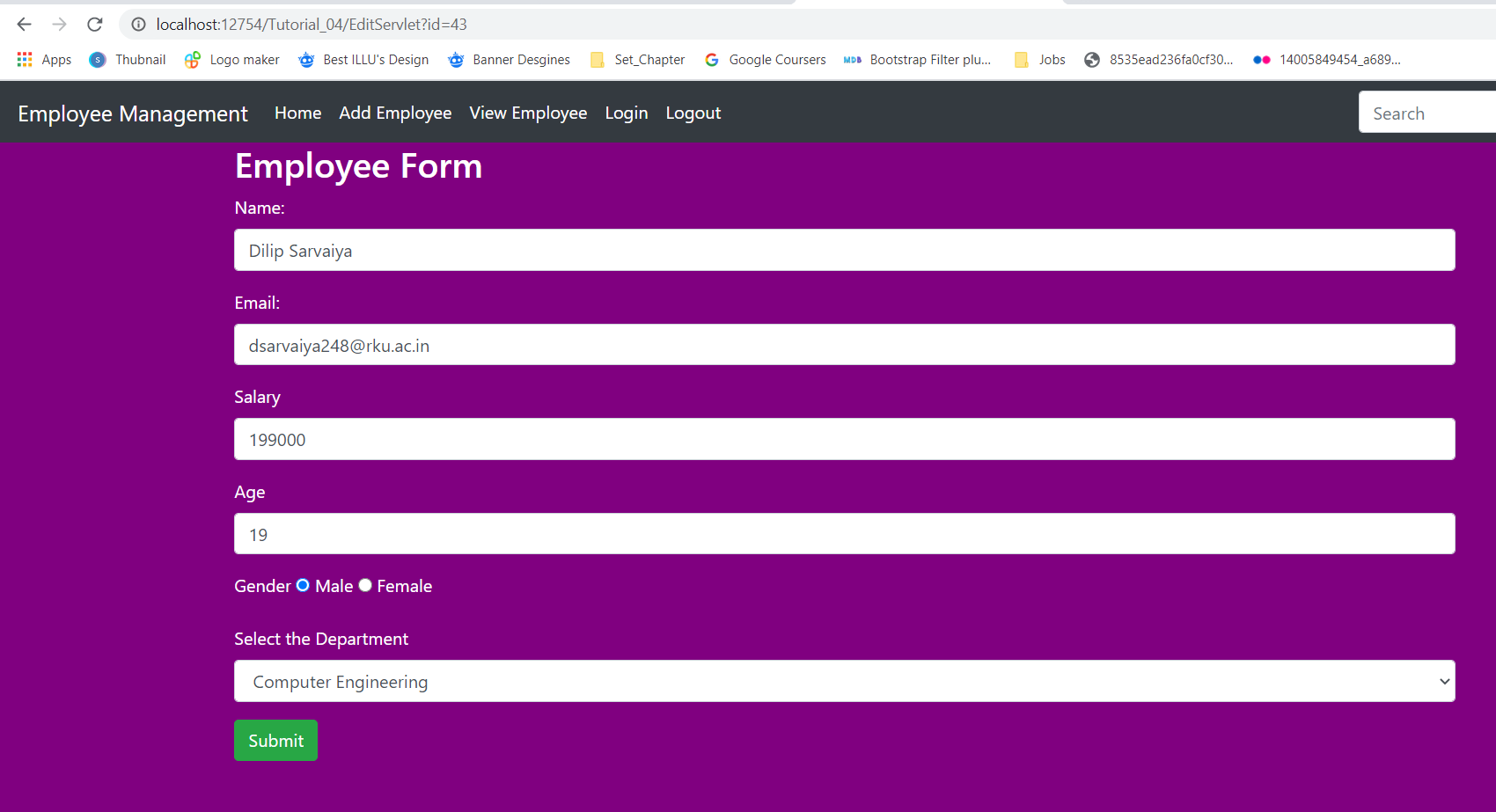
****

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