Name: Saurabh Vikas Tekam

Roll no.: TECOD469

WT – DEFAULTER TASK

Task 2: Servlet - mysql login & registration form

```java
Employee.java
1    package net.javaguides.jsp.jdbc.bean;
2
3    import java.io.Serializable;
4
5
6    public class Employee implements Serializable {
7
8        private static final long serialVersionUID = 1 L;
9        private String firstName;
10       private String lastName;
11       private String username;
12       private String password;
13       private String address;
14       private String contact;
15       public String getFirstName() {
16           return firstName;
17       }
18       public void setFirstName(String firstName) {
19           this.firstName = firstName;
20       }
21       public String getLastName() {
22           return lastName;
23       }
24       public void setLastName(String lastName) {
25           this.lastName = lastName;
26       }
27       public String getUsername() {
28           return username;
29       }
30       public void setUsername(String username) {
31           this.username = username;
32       }
33       public String getPassword() {
34           return password;
35       }
36       public void setPassword(String password) {
37           this.password = password;
38       }
39       public String getAddress() {
40           return address;
```

```java
    public String getAddress() {
        return address;
    }
    public void setAddress(String address) {
        this.address = address;
    }
    public String getContact() {
        return contact;
    }
    public void setContact(String contact) {
        this.contact = contact;
    }
}
```

```java
EmployeeDao.java
1    package net.javaguides.jsp.jdbc.database;
2
3    import java.sql.Connection;
4    import java.sql.DriverManager;
5    import java.sql.PreparedStatement;
6    import java.sql.SQLException;
7
8    import net.javaguides.jsp.jdbc.bean.Employee;
9
10   public class EmployeeDao {
11
12       public int registerEmployee(Employee employee) throws ClassNotFoundException {
13           String INSERT_USERS_SQL = "INSERT INTO employee" +
14               " (id, first_name, last_name, username, password, address, contact) VALUES " +
15               " (?, ?, ?, ?, ?,?,?);";
16
17           int result = 0;
18
19           Class.forName("com.mysql.jdbc.Driver");
20
21           try (Connection connection = DriverManager
22                   .getConnection("jdbc:mysql://localhost:3306/mysql_database?useSSL=false", "root", "root");
23
24               // Step 2:Create a statement using connection object
25               PreparedStatement preparedStatement = connection.prepareStatement(INSERT_USERS_SQL)) {
26               preparedStatement.setInt(1, 1);
27               preparedStatement.setString(2, employee.getFirstName());
28               preparedStatement.setString(3, employee.getLastName());
29               preparedStatement.setString(4, employee.getUsername());
30               preparedStatement.setString(5, employee.getPassword());
31               preparedStatement.setString(6, employee.getAddress());
32               preparedStatement.setString(7, employee.getContact());
33
34               System.out.println(preparedStatement);
35               // Step 3: Execute the query or update query
36               result = preparedStatement.executeUpdate();
37
38           } catch (SQLException e) {
39               // process sql exception
40               printSQLException(e);
```

```java
EmployeeServlet.java
1    package net.javaguides.employeemanagement.web;
2
3    import java.io.IOException;
4
5    import javax.servlet.ServletException;
6    import javax.servlet.annotation.WebServlet;
7    import javax.servlet.http.HttpServlet;
8    import javax.servlet.http.HttpServletRequest;
9    import javax.servlet.http.HttpServletResponse;
10
11   import net.javaguides.employeemanagement.dao.EmployeeDao;
12   import net.javaguides.employeemanagement.model.Employee;
13
14
15
16   @WebServlet("/register")
17   public class EmployeeServlet extends HttpServlet {
18       private static final long serialVersionUID = 1 L;
19       private EmployeeDao employeeDao;
20
21       public void init() {
22           employeeDao = new EmployeeDao();
23       }
24
25       protected void doPost(HttpServletRequest request, HttpServletResponse response)
26       throws ServletException, IOException {
27
28           String firstName = request.getParameter("firstName");
29           String lastName = request.getParameter("lastName");
30           String username = request.getParameter("username");
31           String password = request.getParameter("password");
32           String address = request.getParameter("address");
33           String contact = request.getParameter("contact");
34
35           Employee employee = new Employee();
36           employee.setFirstName(firstName);
37           employee.setLastName(lastName);
38           employee.setUsername(username);
39           employee.setPassword(password);
40           employee.setContact(contact);
```

```java
        } catch (SQLException e) {
            // process sql exception
            printSQLException(e);
        }
        return result;
    }

    private void printSQLException(SQLException ex) {
        for (Throwable e: ex) {
            if (e instanceof SQLException) {
                e.printStackTrace(System.err);
                System.err.println("SQLState: " + ((SQLException) e).getSQLState());
                System.err.println("Error Code: " + ((SQLException) e).getErrorCode());
                System.err.println("Message: " + e.getMessage());
                Throwable t = ex.getCause();
                while (t != null) {
                    System.out.println("Cause: " + t);
                    t = t.getCause();
                }
            }
        }
    }
}
```

```java
        Employee employee = new Employee();
        employee.setFirstName(firstName);
        employee.setLastName(lastName);
        employee.setUsername(username);
        employee.setPassword(password);
        employee.setContact(contact);
        employee.setAddress(address);

        try {
            employeeDao.registerEmployee(employee);
        } catch (Exception e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

        response.sendRedirect("employeedetails.jsp");
    }
}
```

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

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

<body>
    <div align="center">
        <h1>Employee Register Form</h1>
        <form action="<%= request.getContextPath() %>/register" method="post">
            <table style="with: 80%">
                <tr>
                    <td>First Name</td>
                    <td><input type="text" name="firstName" /></td>
                </tr>
                <tr>
                    <td>Last Name</td>
                    <td><input type="text" name="lastName" /></td>
                </tr>
                <tr>
                    <td>UserName</td>
                    <td><input type="text" name="username" /></td>
                </tr>
                <tr>
                    <td>Password</td>
                    <td><input type="password" name="password" /></td>
                </tr>
                <tr>
                    <td>Address</td>
                    <td><input type="text" name="address" /></td>
                </tr>
                <tr>
                    <td>Contact No</td>
                    <td><input type="text" name="contact" /></td>
                </tr>
            </table>
                    <input type="submit" value="Submit" />
        </form>
    </div>
</body>

</html>
```
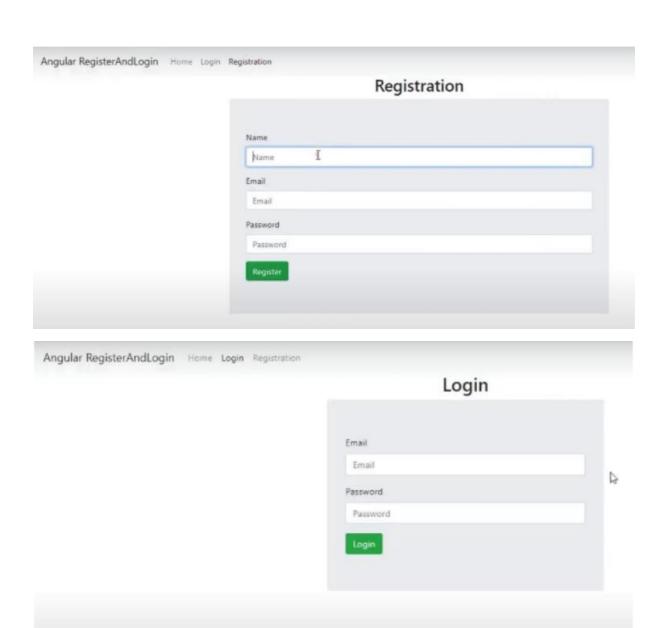
```
<> employeedetails.jsp > ⊘ ? > ⊘ ? > ⊘ html
  1    <%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1" %>
  2        <%@page import="net.javaguides.employeemanagement.dao.*" %>
  3          <!DOCTYPE html>
  4          <html>
  5
  6          <head>
  7              <meta charset="ISO-8859-1">
  8              <title>Insert title here</title>
  9          </head>
 10
 11          <body>
 12              <h1>User successfully registered!</h1>
 13          </body>
 14
 15          </html>
```

Employee Register Form

First Name	Ramesh
Last Name	Fadatare
UserName	RameshFadatare
Password	••••••••
Address	Pune
Contact No	8412042007

Submit

User successfully registered!

Name: Saurabh Vikas Tekam

Roll no.: TECOD469

WT – DEFAULTER TASK

Task 2: Develop php - MySQL & angular- MySQL login & registration form

database.php:

```php
<?php
header("Access-Control-Allow-Origin: *");
header('Access-Control-Allow-Credentials: true');
header("Access-Control-Allow-Methods: PUT, GET, POST, DELETE");
header("Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type,
Accept");
header("Content-Type: application/json; charset=UTF-8");
$db_host = 'localhost';
$db_username = 'root';
$db_password = 'Pratik@1607';
$db_name = 'angdb';
$mysqli = new mysqli($db_host, $db_username, $db_password,$db_name);
if ($mysqli->connect_error) {
die('Error : ('. $mysqli->connect_errno .') '. $mysqli->connect_error);
}
?>
```

login.php:

```php
<?php
include_once("database.php");
$postdata = file_get_contents("php://input");
$request = json_decode($postdata);
if(isset($postdata) && !empty($postdata))
```

```php
{
$pwd = mysqli_real_escape_string($mysqli, trim($request->password));
$email = mysqli_real_escape_string($mysqli, trim($request->username));
$sql = "SELECT * FROM users where email='$email' and password='$pwd'";
if($result = mysqli_query($mysqli,$sql))
{
$rows = array();
while($row = mysqli_fetch_assoc($result))
{
$rows[] = $row;
}
echo json_encode($rows);
}
else
{
http_response_code(404);
}
}
?>
```

Register.php:

```php
<?php
include_once("database.php");
$postdata = file_get_contents("php://input");
if(isset($postdata) && !empty($postdata))
{
$request = json_decode($postdata);
$name = trim($request->name);
$pwd = mysqli_real_escape_string($mysqli, trim($request->pwd));
$email = mysqli_real_escape_string($mysqli, trim($request->email));
$sql = "INSERT INTO users(name,password,email) VALUES ('$name','$pwd','$email')";
```

```php
if ($mysqli->query($sql) === TRUE) {
$authdata = [
'name' => $name,
'pwd' => '',
'email' => $email,
'Id' => mysqli_insert_id($mysqli)



];
echo json_encode($authdata);
}
}
?>
```

Users.ts:
```typescript
export class Users {
public Id: number;
public name: string;
public pwd:string;
public email:string;
constructor(Id:number,name: string,pwd:string,email:string) {
this.Id = Id;
this.name = name;
this.pwd = pwd;
this.email = email;
}
}
```

Output:

Angular RegisterAndLogin   Home   Login   Registration

Registration

Name

Name

Email

Email

Password

Password

Register

Angular RegisterAndLogin   Home   Login   Registration

Login

Email

Email

Password

Password

Login

Name: Saurabh Vikas Tekam

Roll no.: TECOD469

WT – DEFAULTER TASK

Task 3: Design sign up and sign in page using PHP AJAX MYSQL

Index.php:

```php
<?php

require 'function.php';

if(isset($_SESSION["id"])){

$id = $_SESSION["id"];

$user = mysqli_fetch_assoc(mysqli_query($conn, "SELECT * FROM tb_user WHERE id = $id"));

}

else{

header("Location: login.php");

}

?>
```

```html
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Index</title>




</head>

<body>

<h1>Welcome <?php echo $user["name"]; ?></h1>

<a href="logout.php">Logout</a>

</body>

</html>
```

Login.php:

```php
<?php
```

```php
require 'function.php';

if(isset($_SESSION["id"])){

header("Location: index.php");

}

?>
```

```html
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Login</title>

</head>

<body>

<h2>Login</h2>

<form autocomplete="off" action="" method="post">

<input type="hidden" id="action" value="login">

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

<input type="text" id="username" value=""> <br>

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

<input type="password" id="password" value=""> <br>

<button type="button" onclick="submitData();">Login</button>

</form>

<br>


<a href="register.php">Go To Register</a>
```

```php
<?php require 'script.php'; ?>
```

```html
</body>

</html>
```

Register.php:

```php
<?php

require 'function.php';
```

```php
if(isset($_SESSION["id"])){

header("Location: index.php");

}

?>
```
```html
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Register</title>

</head>

<body>

<h2>Register</h2>

<form autocomplete="off" action="" method="post">

<input type="hidden" id="action" value="register">

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

<input type="text" id="name" value=""> <br>

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

<input type="text" id="username" value=""> <br>

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

<input type="password" id="password" value=""> <br>

<button type="button" onclick="submitData();">Register</button>

</form>

<br>


<a href="login.php">Go To Login</a>
```
```php
<?php require 'script.php'; ?>
```
```html
</body>

</html>
```
Function.php:
```php
<?php
```

```php
session_start();

define("DB_HOST", "localhost");

define("DB_USER", "root");

define("DB_PASSWORD", "Pratik@1607");

define("DB_DATABASE", "loginregister");


$conn = mysqli_connect(DB_HOST, DB_USER, DB_PASSWORD, DB_DATABASE);

// IF

if(isset($_POST["action"])){

if($_POST["action"] == "register"){

register();

}

else if($_POST["action"] == "login"){

login();

}

}

// REGISTER

function register(){

global $conn;


$name = $_POST["name"];

$username = $_POST["username"];

$password = $_POST["password"];



if(empty($name) || empty($username) || empty($password)){

echo "Please Fill Out The Form!";

exit;

}

$user = mysqli_query($conn, "SELECT * FROM tb_user WHERE username = '$username'");

if(mysqli_num_rows($user) > 0){
```

```php
echo "Username Has Already Taken";

exit;

}

$query = "INSERT INTO tb_user VALUES('', '$name', '$username', '$password')";

mysqli_query($conn, $query);

echo "Registration Successful";

}

// LOGIN

function login(){

global $conn;

$username = $_POST["username"];

$password = $_POST["password"];

$user = mysqli_query($conn, "SELECT * FROM tb_user WHERE username = '$username'");

if(mysqli_num_rows($user) > 0){

$row = mysqli_fetch_assoc($user);

if($password == $row['password']){

echo "Login Successful";

$_SESSION["login"] = true;

$_SESSION["id"] = $row["id"];

}

else{

echo "Wrong Password";

exit;

}



}

else{

echo "User Not Registered";

exit;

}
```

```php
}
?>
```

Logout.php:

```php
<?php
require 'function.php';
$_SESSION = [];
session_unset();
session_destroy();
header("Location: login.php");
?>
```

Script.php:

```html
<script src = "https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">
</script>
<script type="text/javascript">
function submitData(){
$(document).ready(function(){
var data = {
name: $("#name").val(),
username: $("#username").val(),
password: $("#password").val(),
action: $("#action").val(),
};
$.ajax({
url: 'function.php',
type: 'post',


data: data,
success:function(response){
alert(response);
if(response == "Login Successful"){
```

```
window.location.reload();

}

}

});

});

}
```

</script>

Output:

Login

Username [Pratik]
Password [••••••|]
[Login]

Go To Register

Register

Name [   ]
Username [   ]
Password [   ]
[Register]

Go To Login