Week 7

JSP: Perform Create, Update, Retrieve and Delete (CRUD)

Web Programming 2

Name: NURHASLINDA BINTI

BAHARUDDIN

Matric #: S67383

Semester: 4

Lab: 7

Demonstrator: SIR ARIZAL



$Task \ 1: \ \mathsf{Perform} \ \mathsf{Basic} \ \mathsf{CRUD} \ \mathsf{Process} \ \mathsf{Using} \ \mathsf{Java} \ \mathsf{Servlet}$

Code:

//User.java

//UserDAO.java

```
/*
    * Click hbfs://nbhost/SystemFileSystem/Templates/Licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licenses/licen
```

//UserController.java

//index.jsp

```
{$$page contentType="text/html" pageEncoding="UTF-8"$>
{IDOCTYFE html>
}

chead>

chead>

chead>

ctitle>Sample Perform CRUD Using Java Servlet</title>

chead>

chead>
```

//user.jsp

//listUser.jsp

//editUser.jsp

Outputs: List of Users...! User Id First Name Last Name Action 1 Ching XJ Update Delete Add User //Create UI

New Record User ID: 2 First Name: Song Last Name: KX Submit Cancel

//Post Create

List of Users...!

User Id First Name Last NameAction1ChingXJUpdate Delete2SongKXUpdate Delete

Add User

//Update UI

Updating User Profile		
User ID:	1	
First Name:	Ching	
Last Name:	Xiang Jie	
Submit		

//Post Update

List of Users...!

User Id First Name Last Name Action

1 Ching Xiang Jie <u>Update Delete</u> 2 Song KX <u>Update Delete</u>

Add User

//Post Delete

List of Users...!

User Id First Name Last Name Action

1 Ching Xiang Jie <u>Update Delete</u>

Add User

Reflections:

Why we use servlet for Java Web Application?

-to perform business logic

Exercise

Code:

//Profile.java

```
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this
* click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this
public class Profile {
    private String username;
    private String icno;
    private String firstName;

    /**...3 lines */
    public String getUsername() [...3 lines ]

    /**...3 lines */
    public void setUsername(String username)

    /**...3 lines */
    public void setIcno(String icno) [...3 lines ]

    /**...3 lines */
    public void setIcno(String icno) [...3 lines ]

    /**...3 lines */
    public String getFirstName() [...3 lines ]

    /**...3 lines */
    public void setFirstName(String firstName) [...3 lines ]

    /**...3 lines */
    public void setFirstName(String firstName) [...3 lines ]
```

//ProfileDAO.java

//ProfileServlet.java

```
if (action.equalsIgnoreCase("confirm")) (
foward = comprise;
String username = request.getParameter("username");
Profile profile = dac.getParameter("username");
Profile = dac.getParameter("username);
request.setAttribute("profile");
profile;
profile;
place if (action.equalsIgnoreCase("insert")) (
foward = IMEDIT;
) else if (action.equalsIgnoreCase("created")) (
foward = CREATED;
)
          Profile profile = new Profile();
profile.setUsername(request.getParameter("username"));
profile.setIcno(request.getParameter("icno"));
profile.setPirstName(request.getParameter("firstName"));
```

//studentRegister.jsp

//confirmRegistration.jsp

```
48page contentType="text/html" pageEncoding="UTF-0">
48page contentType="text/html" pageEncoding="UTF-0">
48page contentType="text/stax.sun.com/jsp/jstl/core" prefix="c" %)
48page contentType="text.sun.com/jsp/jstl/core" prefix="c" %)
48page contentType="text.sun.com/jsp/jstl/core" prefix="c" %)
48page contentType="text.sun.com/jsp/jstl/core" prefix="c" %)
48page contentType="text.sun.com/jsp/jstl/core" %)
48page contentType="text.sun.com/jstl/core" %)
48page contentType="text.sun.com/jstl/core" %)
48page
```

//notificationRegister.jsp

Outputs:

Student Register

Username:	azlan
IC No:	222222-22-2222
First Name:	di
Submit Cancel	

Confirm Register

User ID:	azlan
First Name:	222222-22-2222
Last Name:	di
Submit	

Student created...!