Week 6

JSP: Saving and Retrieving Data from Database

Web Programming 2

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Semester: 4

Lab: 6

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$Task\ 1\colon \text{Using JSP Page to Access a Simple MySQL Database}$

Code:

//SampleInsertRecord.jsp

//SampleInsertionRecord.jsp

```
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```

Outputs:

Lab 6 - Task 1 - Sample Insertion records into MYSQL through JSP's page

Step 1: MySQL driver loaded...! Step 2: Database is connected...! Step 3: Prepared Statements created...! Step 4: Perform insertion of record...! Step 5: Close database connection...!

The record:(Welcome to access MySQL database with JSP...!) is successfully created..!

Task 2: Create Records via JSP Page

Code:

//Author.java

```
pablic class Author (
    private String author;
    private String author;
    private String address;
    private String icty;
    private String icty;
    private String state;
    private String state;
    private String state;
    public String getAuthno() [...3 lines |
        public string getAuthno() [...3 lines |
        public void setAuthno(string authno) [...3 lines |
        public void setAuthno(string authno) [...3 lines |
        public string getAddress() [...3 lines |
        public void setAuthno(string address) [...3 lines |
        public void setAuthno(string address) [...3 lines |
        public void setCity(string city) [...3 lines |
        public void setAuthno(string address) [...3 lines |
        public void setState(String state) [...3 lines |
```

//insertAuthor.jsp

```
### Comparing of the Comparing Comparing Control of the Control of
```

//processAuthor.jsp

Outputs:

Lab 6 - Task 2 - Perform creating and retrieving records via JSP page

Label	E.g. UKXXXXX
Name	Enter your name
Address	Enter your address
City	Enter your city
State	Enter your state
Zip	Enter your zip

Lab 6 - Task 2 - Perform creating and retrieving records via JSP page

Record successfully added into Author table...!

Record with author no gsk23322 successfully created..!

Details of record are;

Name: Foaud

Address : Malaysia

City: KT

State: UMT

Zip: 23

Reflection

- 1. I learned to retrieve records to database and retrieve it back.
- 2. Steps
- i) I import the getter and setter using JavaBeans and setProperty.
- ii) I import JDBC library.
- iii) I use PreparedStatement to input all the input that I entered.
- iv) I print everything out.

Task 3:: Create Records Constrained by Regular Expression In JSP

//Code

//Student.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 Lab6.com;

import java.util.regex.*;

public class Student {

    private String stumo;
    private String name;
    private String program;
    private String walld;
    private String walld;

    private String walld;
    private String getStumo() [...1 lines]

    public String getStumo(String stumo) [...3 lines]

    public String getName(String name) [...3 lines]

    public String getProgram() [...3 lines]

    public String getProgram(String program) [...3 lines]

    public void setProgram(String program) [...3 lines]
```

//insertStudent.jsp

```
cVepage contentType="text/html" pageEncoding="UTF-8">
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```

//processStudent.jsp

//errorStudent.jsp

```
clootTYP html>
clootTyP html
c
```

//outputs

Student No	UK88888
Name	Mohamad Nor Hasan
Program	BSc. Soft. Eng. 🕶
Submit Reset	

Record with student no UK88888 successfully created ..!

Details of record are;

Student ID: UK88888

Name: Mohamad Nor

Program :Bsc. in Networking

Reflection

- 1. I learned to retrieve records to database and retrieve it back.
- 2. Steps
- i) I import the getter and setter using JavaBeans and setProperty.
- ii) I import JDBC library.
- iii) I use PreparedStatement to input all the input that I entered.
- iv) I print everything out.

Task 4: Perform Retrieving Records Via JSP Page

Code:

//queryStudent.jsp

```
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chapd
ch
```

Outputs:

Lab 6 - Task 4: Retrieving record via JSP page.

ISBNNo	Author	Title
UK12489	Ahmad Salam	BSc. with IM.
UK56789	Rosmah Azman	BSc Soft. Eng.
UK67342	Liew Cheng Huat	BSc in Robotics
UK88888	Mohamad Nor	Bsc. in Networking

Reflection

- 1. I learn to extract data from database.
- 2. PreparedStatement() is used to input data and Statement() is used to get data.

Task 5: Create A Record Using JSP Model 1

Code:

//Database.java

//Marathon.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 Lab6.coms

public class Marathon (

private String icnos
private String names
private String category;

public string getIcno() [...3 lines]

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

public void setIcno(String name) [...3 lines]

public void setName(String name) [...3 lines]

public void setCategory() [...3 lines]
```

//MarathonDAO.java

//registerMarathon.jsp

```
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```

//processMarathon.jsp

Outputs:

IC No	890710-11-2369	
Name	Mohamad Nor Hassan	
Category	7 KM 🕶	
Submit	Cancel	

Record successfully added into marathon table...!

Record with IC No 890710-11-2369 successfully created ..!

Details of record are:

IC No: 890710-11-2369

Name: Mohamad Nor Hassan

Category: 7 KM

Reflection

1. I learn to create an external class for database.

2. It is easy and compact, they are very easy to create and use.

Exercise

Code:

//insertUser.html

//processUser.jsp

//login.jsp

//doLogin.jsp

//main.jsp