

SRI RAMACHANDRA ENGINEERING AND TECHNOLOGY

CSE 280 ADVANCE JAVA

STUDENT WORK BOOK

Name : S. Harshini

Unique ID : E0119002

Year : II

Quarter: Q6

Department: B.Tech CSE (AI &ML)

Faculty Name : Prof. Ashok Kumar

Academic Year : 2020-2021

Date: 20-11-2020 (Class Practice)

Questions:

Ouestion 1:

Create a login form with the following details

- 1. User-name
- 2. Password.

Create a table called as "Users" storing all the details of the user login details.

Create two buttons in the webpage - login, new user.

Login button - should use a JSP to read the content of database and print user validation success (if username and password) are correct.

If username & password are wrong, then print "invalid".

new user - should navigate to another page where the user can enter his username and password. These info should be stored in the database.

Question 2:

Create an online product search tool. Insert few details in the dataset (min 10 values). The table products should have the following columns

- 1. ID
- 2. Name
- 3. Price

The user can enter the name of the product to search. Design a webpage which asks for product name, then design a JSP page which searches the product and display the information.

Program:

Question 1:

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        body{
            padding-left: 5%;
            padding-top: 5%;
        .forms{
            margin: 2%;
        .inputs{
            margin:0.5% 0% 0.5% 0%;
    </style>
</head>
<body>
    Login:
    <form action="signin" method="POST" class="forms">
        <input class = "inputs" type="text" name="username" placeholder="Username</pre>
        <br>
        <input class = "inputs" type="password" name="password" placeholder="Pass</pre>
word" />
        <br>
        <button type="submit">Login</button>
    </form>
    Create New User:
```

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
<servlet>
<servlet-name>signin</servlet-name>
<servlet-class>signin</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>signin</servlet-name>
<url-pattern>/signin</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>signup</servlet-name>
<servlet-class>signup</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>signup</servlet-name>
<url-pattern>/signup</url-pattern>
</servlet-mapping>
</web-app>
```

SERVLETS:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class signup extends HttpServlet {
    public void init() throws ServletException {
    public void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        doGet(request, response);
    public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        try {
            out.println("<html><body>");
            out.println("Trying to create new user...");
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost/advjava?use
Unicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serve
rTimezone=UTC","root", "<u>"</u>);
            try {
                java.sql.Statement stmt=con.createStatement();
                String u = "";
                String p = "";
                boolean flag = false;
                ResultSet rs=stmt.executeQuery("select * from users");
                while(rs.next()){
                    u = rs.getString(1);
                    p = rs.getString(2);
                    if(u.equals(username)){
                        out.println("User already exists...");
                        flag = true;
```

```
break;
                if(!flag){
                    int 1 = password.length();
                   if(1 >= 6){
                       int a=stmt.executeUpdate("insert into users values('"+use
rname+"','"+password+"');");
                       out.println("New User: "+username+" is created..."
);
                   else{
                       out.print("The password should be greater than six cha
racters!");
            } catch (Exception e) {
            finally {
               out.println("</body></html>");
               con.close();
        } catch (Exception e) {
           // TODO: handle exception
    public void destroy() {
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class signin extends HttpServlet {
    public void init() throws ServletException {
```

```
public void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        doGet(request, response);
    public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
        response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       try {
           out.println("<html><body>");
           out.println("Trying to login...");
            Connection con = null;
           Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost/advjava?use
Unicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serve
rTimezone=UTC", "root", "");
           try {
               String u = "";
               String p = "";
               boolean flag = false;
               java.sql.Statement stmt=con.createStatement();
               ResultSet rs=stmt.executeQuery("select * from users");
               while(rs.next()){
                   u = rs.getString(1);
                   p = rs.getString(2);
                    if(u.equals(username) && p.equals(password)){
                        out.println("Logged In as "+username+"");
                        flag = true;
                       break;
                    else{
                        if(u.equals(username)){
                            if(!p.equals(password)){
                               out.println("Incorrect Password");
                               flag = true;
                               break;
```

```
    if(!flag){
        out.println("User not available! Please check your details
!");

    } catch (Exception e) {
        // TODO: handle exception
    }
    finally {
        out.println("</body></html>");
        con.close();
    }
} catch (Exception e) {
        // TODO: handle exception
    }
}
public void destroy() {
}
```

Output:

Create New User:

e0119002
•••••
Create New User

Trying to create new user...

New User: e0119002 is created...

Login:

abcde	
•••••	
Login	

Trying to login...

Logged In as abcde

Question 2:

HTML:

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
       body{
            padding-left: 5%;
            padding-top: 5%;
        .options{
            padding: 2%;
        .inputs{
            margin: 1% 0% 1% 0%;
   </style>
</head>
<body>
   <form action="productSearch" method="post">
       <div class="options">
           <input type="radio" id="id" name="option" value="id">
```

XML:

SERVLETS:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class productSearch extends HttpServlet {
    public void init() throws ServletException {
    }
}
```

```
public void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
       doGet(request, response);
    public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
       response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       String type = request.getParameter("option");
       try {
           out.println("<html><body>");
           out.println("Searching...");
           boolean flag = false;
           Connection con = null;
           Class.forName("com.mysql.cj.jdbc.Driver");
           con = DriverManager.getConnection("jdbc:mysql://localhost/advjava?use
Unicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serve
rTimezone=UTC", "root", "");
           try {
               java.sql.Statement stmt=con.createStatement();
               ResultSet rs=stmt.executeQuery("select * from products");
               switch (type){
                   case "id":
                       int id = Integer.parseInt(request.getParameter("text"));
                       while(rs.next()){
                           if(id == rs.getInt(1)){
                               out.println("Item ID: "+rs.getInt(1)+"");
                               out.println("Item Name: "+rs.getString(2)+"</p</pre>
>");
                               );
                               flag = true;
                       break;
                       case "name":
                       String name = request.getParameter("text");
                       while(rs.next()){
                           if(name.equals(rs.getString(2))){
                               out.println("Item ID: "+rs.getInt(1)+"");
                               out.println("Item Name: "+rs.getString(2)+"</p</pre>
```

```
);
                          flag = true;
                       }
                    break;
                    case "price":
                    int price = Integer.parseInt(request.getParameter("text")
);
                    while(rs.next()){
                       if(price == rs.getInt(3)){
                          out.println("Item ID: "+rs.getInt(1)+"");
                          out.println("Item Name: "+rs.getString(2)+"</p</pre>
>");
                          );
                          flag = true;
                    break;
             if(!flag){
                out.println("Item Not Available!");
          } catch (Exception e) {
             // TODO: handle exception
          finally {
             out.print("End of Search!");
             out.println("</body></html>");
             con.close();
      } catch (Exception e) {
         // TODO: handle exception
   }
   public void destroy() {
```

Output:

	Searching
Search by IDSearch by Name	Item ID: 4
O Search by Price	Item Name: marker
	Item Price: 30
4	End of Search!
Search	
	Searching
Search by IDSearch by Name	Item ID: 2
O Search by Price	Item Name: pencil
	Item Price: 4
pencil	End of Search!
Search	
	Searching
Search by IDSearch by Name	Item Not Available!
Search by Price Search by Price	End of Search!
100	