Dt : 11/12/2023

Summary Diagram:

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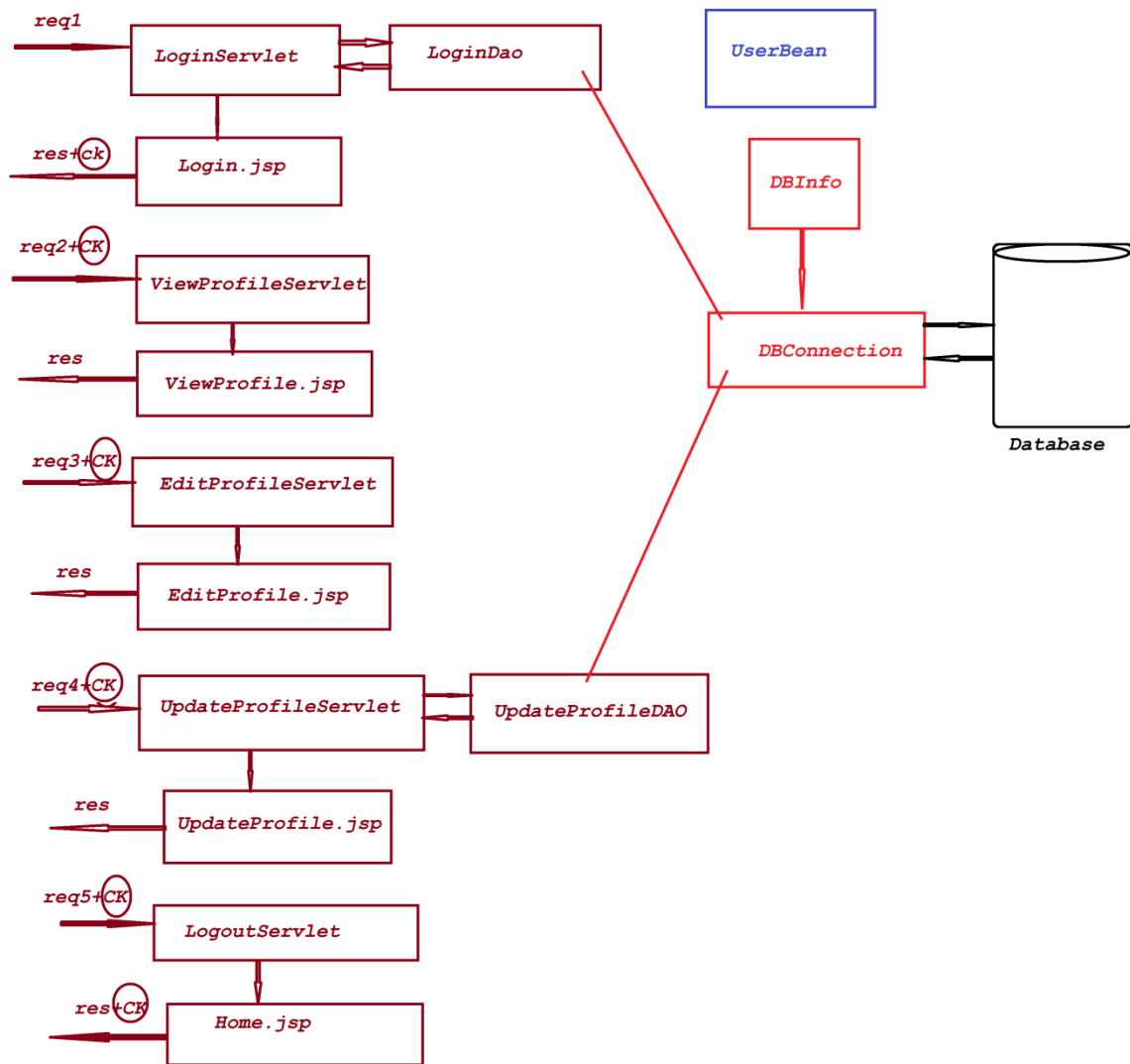
faq:

define addCookie()?

=>addCookie() method is from HttpServletResponse and which is used to add

   Cookie-Object to response.

Method Signature of addCookie():

public abstract void addCookie(javax.servlet.http.Cookie);

syntax:

res.addCookie(ck);

 =>This addCookie() method will perform serialization process,which means converts

   Cookie-Object into Stream.

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faq:

define getCookies()?

 =>getCookies() method is from HttpServletRequest and which is used to get all

   cookies from the request object.

Method Signature of getCookie():

public abstract javax.servlet.http.Cookie[] getCookies();

syntax>

Cookie c[] = req.getCookies();

 =>getCookies() method internally perform De-Serialization process,which means

    convers Stream into Objects

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Application : HTML-FORM to Servlet Program

input.html

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
 <form action="dis" method="post">
   <table>
     <tr>
      <td>Name</td>
      <td><input type="text" name="tname"
value=""></td>
     </tr>
     <tr>
     <td>Age</td>
     <td><input type="text" name="tage" value=""></td>
     </tr>
     <tr>
     <td>Gender</td>
     <td><input type="radio" name="gen" value="M"
checked="checked"/>Male
     <input type="radio" name="gen" value="F"/>Female
     </td>
     </tr>
     <tr>
     <td>Address</td>
     <td>
       <textarea name="taddress" rows="4"
cols="20">enter address</textarea>
     </td>
     </tr>
     <tr>
     <td>MaritalStatus</td>
```

```html
	<td><input type="checkbox" name="ms"
value="married"/>Married</td>
	</tr>
	<tr>
	<td>Qualification</td>
	<td>
	 <select name="qlfy">
	    <option value="B.Tech">Engg</option>
	    <option value="MBBS">Medical</option>
	    <option value="B.A">Arts</option>
	 </select>
	</td>
	</tr>
	<tr>
	<td>Courses</td>
	<td>
	<select name="crs" size="3" multiple="multiple">
	<option value="java">JAVA</option>
	<option value=".net">.Net</option>
	<option value="Testing">Testing</option>
	</select>
	</td>
	</tr>
	<tr>
	<td>Hobbies</td>
	<td>
	<input type="checkbox" name="hb" value="read"
checked/> Reading
	<input type="checkbox" name="hb" value="stamps"/>
Stamp Collection
	<input type="checkbox" name="hb" value="travel"/>
Traveling
	</td>
	</tr>
	<tr>
	<td colspan="2">
	<input type="submit" value="submit">
	<input type="reset" value="cancel">
	</td>
	</tr>
```

```html
    </table>
  </form>
</body>
</html>
```

ControllerServlet.java

```java
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/dis")

public class ControllerServlet extends HttpServlet{

    @Override

    protected void doPost(HttpServletRequest req,HttpServletResponse res)

    throws ServletException,IOException{

        RequestDispatcher rd =

                    req.getRequestDispatcher("Display.jsp");

        rd.forward(req, res);

    }

}
```

Display.jsp

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

```jsp
        pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String name = request.getParameter("tname");
int age =
Integer.parseInt(request.getParameter("tage"));
String gen = request.getParameter("gen");
String addr = request.getParameter("taddress");
String ms = request.getParameter("ms");
String qlfy = request.getParameter("qlfy");
String course = request.getParameter("crs");
String hb[] = request.getParameterValues("hb");
out.println("Name:"+name);
out.println("<br>Age:"+age);
out.println("<br>Gen:"+gen);
out.println("<br>Address:"+addr);
out.println("<br>MS:"+ms);
out.println("<br>Qlfy:"+qlfy);
out.println("<br>Course:"+course);
out.println("<br>Hobbies : ");
for(String k : hb)
{
    out.println(k+"&nbsp&nbsp");

}

%>
</body>
</html>
```

web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
```

```xml
<web-app>
  <welcome-file-list>
      <welcome-file>input.html</welcome-file>
  </welcome-file-list>
</web-app>
```

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