SERVLETS PART-8

Servlet Forwarding:

Forwarding request & response of one servlet to another servlet is called as servlet forwarding.

The main advantage of servlet forwarding is modularity.

Servlet Including:

Including request & response of one servlet into another servlet is called as servlet including.

The main advantage of servlet including is reusability.

Forwarding Vs. Including

Servlet Forwarding	Servlet
1) Forwarding request & response of one servlet to another servlet is known as servlet forwarding.	1) Including servlet into a as servlet inc
2) The main advantage of servlet forwarding is modularity.	2) The main including is r
3) In forwarding, only one pair of request & response created by web container.	3) In includi request & re container.

Forwarding & Including Example:

LoginServlet.java

```
package loginapp;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class LoginServlet
 */
@WebServlet("/login")
public class LoginServlet extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public LoginServlet() {
        super();
        // TODO Auto-generated constructor stub
```

```
}
Connection con;
public void init(ServletConfig config)
{
	try {
		ServletContext sc=config.getServletContext();
		String s1=sc.getInitParameter(“driver”);
		String s2=sc.getInitParameter(“url”);
		String s3=sc.getInitParameter(“username”);
		String s4=sc.getInitParameter(“password”);
		Class.forName(s1);
		con=DriverManager.getConnection(s2,s3,s4);
		} catch (ClassNotFoundException e) {
			// TODO Auto-generated catch block
			e.printStackTrace();
		} catch (SQLException e) {
			// TODO Auto-generated catch block
			e.printStackTrace();
		}
}
	/**
	 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
	 */
	protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
		// TODO Auto-generated method stub
		try {
			String s1=request.getParameter("uname");
			String s2=request.getParameter("pword");
			PreparedStatement
pstmt=con.prepareStatement("select * from uinfo where uname=? and
pword=?");
```

```
                        pstmt.setString(1, s1);
                        pstmt.setString(2, s2);
                        ResultSet rs=pstmt.executeQuery();
                        PrintWriter pw=response.getWriter();
                        if(rs.next())
                        {
                                RequestDispatcher
rd=request.getRequestDispatcher(“welcome”);
                                rd.forward(request, response);
                        }
                        else
                        {
                                pw.println("Invalid Username/Password");
                                RequestDispatcher
rd=request.getRequestDispatcher(“login.html”);
                                rd.include(request, response);
                        }
                        pw.println("</h1></body></html>");
                } catch (SQLException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                } catch (IOException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                }
        }
}
```

WelcomeServlet.java

```
package loginapp;

import java.io.IOException;

import java.io.PrintWriter;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/welcome")
public class WelcomeServlet extends HttpServlet {
	protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
		String s=request.getParameter("uname");
		PrintWriter pw=response.getWriter();
		pw.println("<html><body bgcolor=green
text=yellow><h1>");
		pw.println("Welcome "+s);
		pw.println("</h1></body></html>");
	}
}
```

Servlet Redirecting:

Passing control from one servlet to another servlet is called as servlet redirecting.

In servlet redirecting, server instructs the browser to execute next servlet.

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Forwarding Vs. Redirecting:

Forwarding	Redirecting
1) Forwarding request & response of one servlet to another servlet is called as servlet forwarding.	1) Passing control from one servlet to another servlet is called as servlet redirecting.
2) In forwarding, server itself forwards the request & response of one servlet to another servlet.	2) In redirecting, server instructs the browser to execute next servlet.
3) In forwarding only one pair of request & response created by web container.	3) In redirecting separate pair of request & response created by web container for every servlet.
4) Forwarding supports to forward servlet to servlet, jsp & html.	4) Redirecting supports to redirect servlet to servlet, jsp, html, php, asp, .. etc.,
5) Forwarding works within the server only.	5) Redirecting works within the server also and between two different servers also.

Redirecting Example:

LoginServlet.java

```
package loginapp;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
```

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```
import java.sql.SQLException;

import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class LoginServlet
 */
@WebServlet("/login")
public class LoginServlet extends HttpServlet {
	private static final long serialVersionUID = 1L;

   /**
    * @see HttpServlet#HttpServlet()
    */
   public LoginServlet() {
      super();
      // TODO Auto-generated constructor stub
   }
   Connection con;
   public void init(ServletConfig config)
   {
	try {
		ServletContext sc=config.getServletContext();
		String s1=sc.getInitParameter(“driver”);
		String s2=sc.getInitParameter(“url”);
		String s3=sc.getInitParameter(“username”);
		String s4=sc.getInitParameter(“password”);
		Class.forName(s1);
		con=DriverManager.getConnection(s2,s3,s4);
```

```
                } catch (ClassNotFoundException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                } catch (SQLException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                }
  }
        /**
         * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
                // TODO Auto-generated method stub
                try {
                        String s1=request.getParameter("uname");
                        String s2=request.getParameter("pword");
                        PreparedStatement
pstmt=con.prepareStatement("select * from uinfo where uname=? and
pword=?");
                        pstmt.setString(1, s1);
                        pstmt.setString(2, s2);
                        ResultSet rs=pstmt.executeQuery();
                        PrintWriter pw=response.getWriter();
                        if(rs.next())
                        {
                                response.redirect(“welcome”);
                        }
                        else
                        {
                                pw.println("Invalid Username/Password");
```

```
                                RequestDispatcher
rd=request.getRequestDispatcher("login.html");
                                rd.include(request, response);
                        }
                        pw.println("</h1></body></html>");
                } catch (SQLException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                } catch (IOException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                }
        }
}
```

WelcomeServlet.java

```
package loginapp;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/welcome")

public class WelcomeServlet extends HttpServlet {

        protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
```

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```
            String s=request.getParameter("uname");
            PrintWriter pw=response.getWriter();
            pw.println("<html><body bgcolor=green
text=yellow><h1>");
            pw.println("Welcome "+s);
            pw.println("</h1></body></html>");
        }
}
```

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