Server-side Programming: Java Servlets

Servlet Collaboration

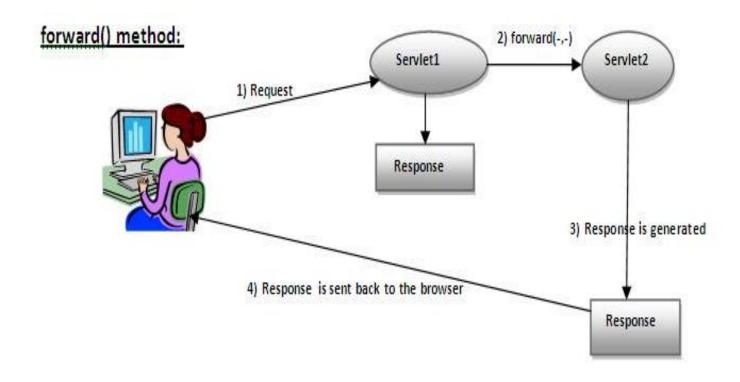
- Request Dispatcher
- SendRedirect

- Dispatching the request to another resource(servlet, jsp or html)
- Can be used to include content of another resource
- 2 methods
 - Forward
 - Include

public void forward(ServletRequest request,ServletResponse response)

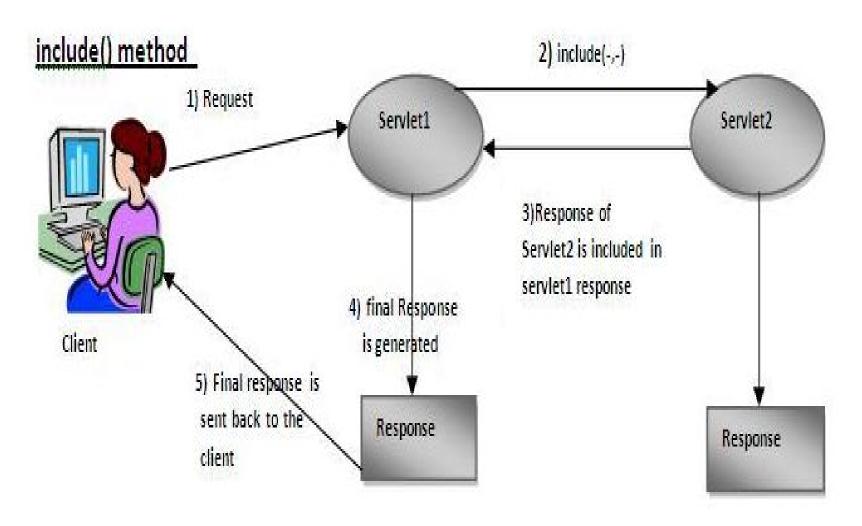
 Forwards a request from a servlet to another resource (servlet, JSP file, or HTML file) on the server.

Forward method



- public void include(ServletRequest request,ServletResponse response)
- Includes the content of a resource (servlet, JSP page, or HTML file) in the response.

Include method



- To get the object of Request dispatcher
 - getRequestDispatcher() method of ServletRequest interface

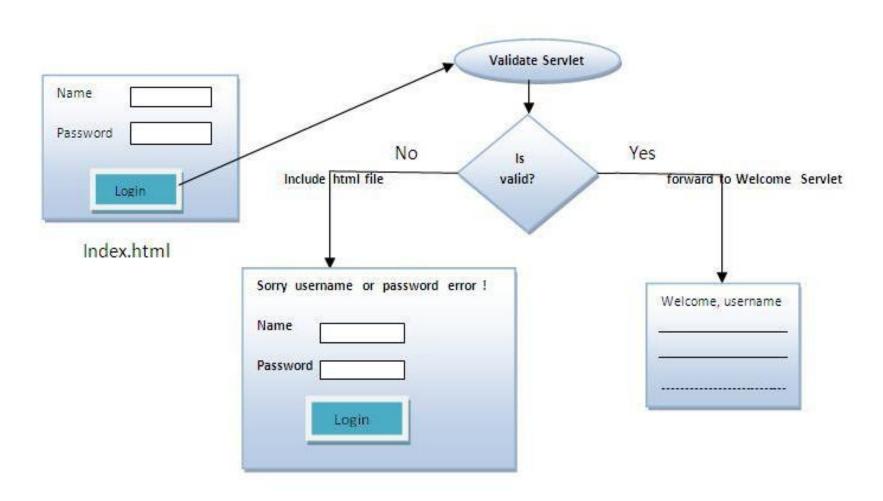
Syntax:

public RequestDispatcher getRequestDispatcher
 (String resource);

RequestDispatcher rd= request.getRequestDispatcher("servlet2");

rd.forward(request, response);

Login example



Login example

Index.html

```
<form action="servlet1" method="post">
Name:<input type="text" name="userName"/><br/>
Password:<input type="password" name="userPass"/><br/>
<input type="submit" value="login"/>
</form>
```

Login.java public class Login extends HttpServlet public void doPost(HttpServletRequest request, HttpServletResp onse response) throws ServletException, IOException response.setContentType("text/html"); PrintWriter out = response.getWriter(); String n=request.getParameter("userName"); String p=request.getParameter("userPass"); if(n.equals("kavitha") && p.equals("abcd")) RequestDispatcher rd=request.getRequestDispatcher("servlet2" rd.forward(request, response); else{ out.println("Sorry UserName or Password Error!"); equestDispatcher rd=request.getRequestDispatcher("/index.html"); rd.include(request, response);

WelcomeServlet.java public class WelcomeServlet extends HttpServlet { public void doPost(HttpServletRequest request, HttpServletResp onse response)throws ServletException, IOException { response.setContentType("text/html"); PrintWriter out = response.getWriter(); String n=request.getParameter("userName"); out.println("Welcome "+n); }

SendRedirect

- Redirecting the request to another resource(servlet, jsp or html)
- Works at client side
- Method of HttpServletResponse
- Syntax
 - public void sendRedirect(String URL)
 - Ex:
 response.sendRedirect("http://www.vit.ac.in");

SendRedirect

- Redirecting the request to another resource(servlet, jsp or html)
- Works at client side
- Method of HttpServletResponse
- Syntax
 - public void sendRedirect(String URL)

```
Ser.html
<form action="Search">
<input type="text" name="name">
<input type="submit" value="Google Search">
</form>
Search.java
public class Search extends HttpServlet
protected void doGet(HttpServletRequest request, HttpServletRe
sponse response) throws ServletException, IOException
String name=request.getParameter("name");
response.sendRedirect("https://www.google.co.in/#q="+name);
```

Differences between forward and sendredirect

Forward()	sendRedirect()
Works at server side	Works at client side
It sends the same request and response objects to another servlet.	It always sends a new request.
It can work within the server only.	It can be used within and outside the server.
Example: request.getRequestDispacher("servlet2") .forward(request,response);	Example: response.sendRedirect("servlet2");

References

http://www.javatpoint.com/servlet-tutorial