SERVLET TECHNOLOGY



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Introduction to Request Dispatcher

RequestDispatcher is an interface, implementation of which defines an object which can dispatch request to any resources(such as HTML, Image, JSP, Servlet) on the server.

Methods of RequestDispatcher

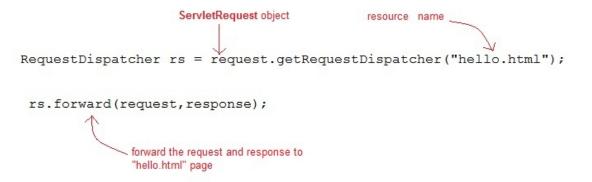
RequestDispatcher interface provides two important methods

Methods	Description
void forward(ServletRequest request, ServletResponse response)	forwards a request from a servlet to another resource (servlet, JSP file, or HTML file) on the server
void include(ServletRequest request, ServletResponse response)	includes the content of a resource (servlet, JSP page, HTML file) in the response

How to get an Object of RequestDispatcher

getRequestDispatcher() method of ServletRequest returns the object of RequestDispatcher.

```
RequestDispatcher rs = request.getRequestDispatcher("hello.html");
rs.forward(request, response);
```



```
RequestDispatcher rs = request.getRequestDispatcher("hello.html");
rs.include(request, response);
```

```
RequestDispatcher rs = request.getRequestDispatcher("first.html");

rs.include(request, response);

include the response of "first.html" page in current servlet response
```

Example demonstrating usage of RequestDispatcher

In this example, we will show you how RequestDispatcher is used to **forward** or **include** response of a resource in a Servlet. Here we are using **index.html** to get username and password from the user, **Validate** Servlet will validate the password entered by the user, if the user has entered "studytonight" as password, then he will be forwarded to **Welcome** Servlet else the user will stay on the index.html page and an error message will be displayed.

Files to be created:

- index.html will have form fields to get user information.
- Validate.java will validate the data entered by the user.
- Welcome.java will be the welcome page.
- web.xml, the deployment descriptor.

index.html

```
<form method="post" action="Validate">
Name:<input type="text" name="user" /><br/>
Password:<input type="password" name="pass" ><br/>
<input type="submit" value="submit">
</form>
```

Validate.java

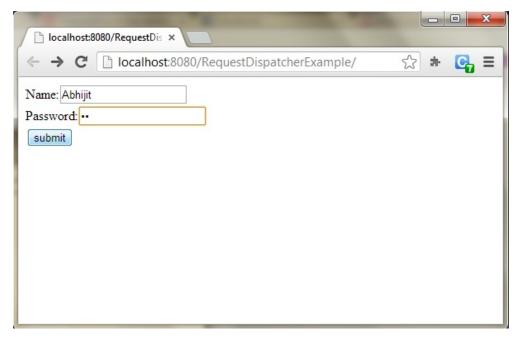
```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class Validate extends HttpServlet {
   protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
      response.setContentType("text/html;charset=UTF-8");
     PrintWriter out = response.getWriter();
    try {
         String name = request.getParameter("user");
        String password = request.getParameter("pass");
        if(password.equals("studytonight"))
           RequestDispatcher rd = request.getRequestDispatcher("Welcome");
           rd.forward(request, response);
        }
        else
         out.println("<font color='red'><b>You have entered incorrect password</b></font>");
                RequestDispatcher rd = request.getRequestDispatcher("index.html");
                rd.include(request, response);
            }
        }finally {
            out.close();
        }
    }
}
```

Welcome.java

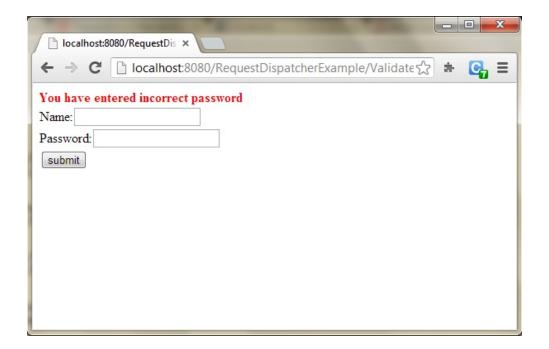
web.xml

```
<web-app>
   <servlet>
       <servlet-name>Validate</servlet-name>
       <servlet-class>Validate</servlet-class>
   </servlet>
   <servlet>
       <servlet-name>Welcome</servlet-name>
       <servlet-class>Welcome</servlet-class>
   </servlet>
   <servlet-mapping>
       <servlet-name>Validate
       <url-pattern>/Validate</url-pattern>
   </servlet-mapping>
   <servlet-mapping>
       <servlet-name>Welcome</servlet-name>
       <url-pattern>/Welcome</url-pattern>
   </servlet-mapping>
   <welcome-file-list>
       <welcome-file>index.html</welcome-file>
       </welcome-file-list>
</web-app>
```

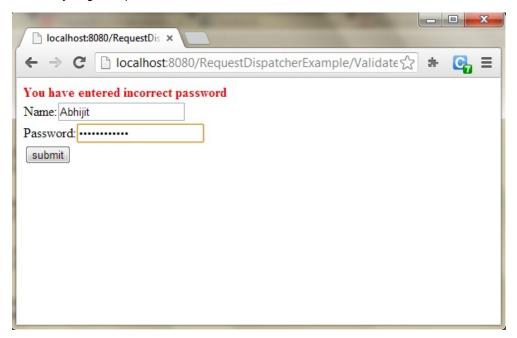
This will be the first screen. You can enter your Username and Password here.



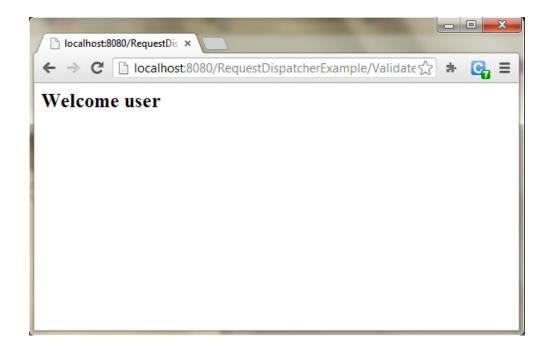
When you click on Submit, Password will be validated, if it is not 'studytonight', error message will be displayed.



Enter any Username, but enter 'studytonight' as password.



Password will be successfully validated and you will be directed to the Welcome Servlet.



← Prev (servlet-response)

Next → (sendredirect-method)

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Java (Hiring)

₹250-600 per hour No Experience Required.

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