RequestDispatcher

RequestDispacher

 RequestDispacher is an interface that provides the facility to forward a request to another resource or include the content of another resource. RequestDispacher provides a way to call another resource from a servlet. Another resource can be servlet, jsp or html.

- This will return a RequestDispatcher object that acts as a wrapper for the resource located at the given path.
- A RequestDispatcher object can be used to forward a request to the resource or to include the resource in a response.
- Forwarding a request as described above only works for other resources (servlets and JSP pages).
- The pathname specified may be relative, although it cannot extend outside the current servlet context.
- If the path begins with a "/" it is interpreted as relative to the current context root.
- This method returns null if the servlet container cannot return a RequestDispatcher.

Methods

- forward(ServletRequest request, ServletResponse response): This method forwards a request from a servlet to another resource on the server.
 - Syntax:public void forward(ServletRequest request,ServletResponse response)throws ServletException, IOException
- include(ServletRequest request,ServletResponse response): This method includes the content of a resource in the response.
 - Syntax: public void include(ServletRequest request,ServletResponse response)throws
 ServletException, IOException

Get Object

- RequestDispatcher requestDispatcher = request.getRequestDispatcher("/another resource");
- requestDispatcher.forward(request, response);
 (or)
- requestDispatcher.include(request, response);

SendRedirect

- sendRedirect() is the method of HttpServletResponse interface which is used to redirect response to another resource.
- Syntax: response. sendRedirect(relative url);

Servlets and Exceptions

EXCEPTION IN THE CODE

 Some exceptions can be handled by adding try-catch blocks into the code....

```
String num = req.getParameter("number");
try
{
    Integer i = new Integer(num);
    writer.println("You entered the number " + i.intValue());
}
catch (java.lang.NumberFormatException e)
{
    writer.println(" Number is not convertable: " + num);
}
```

Specify exception in web.xml

```
<error-page>
 <exception-type>
     java.lang.NumberFormatException
 </exception-type>
  <location>
     /WEB-INF/BadNumber.html
 </location>
</error-page>
```

Specify exception in web.xml

```
<error-page>
  <error-code>
     404
  </exception-type>
  <location>
     /WEB-INF/NotFound.html
  </location>
</error-page>
```

ErrorCode Reference

 https://tomcat.apache.org/tomcat-5.5doc/servletapi/javax/servlet/http/HttpServlet Response.html

sendError()