Eclipse : oxygen

Tomcat : 9.0.10

Servlet : 3.1.0

1.create dynamic web project

2.web.xml

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

<web-app xmlns="http://java.sun.com/xml/ns/javaee"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://java.sun.com/xml/ns/javaee

http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd" version="3.0">

<display-name>Error/Exception Information</display-name>

<!-- Error Code Related Error Pages -->

<error-page>

<error-code>404</error-code>

<location>/error</location>

</error-page>

<!-- throwing servlet exception -->

<error-page>

<exception-type>javax.servlet.ServletException</exception-type>

<location>/error</location>

</error-page>

<!-- from io exception -->

<error-page>

<exception-type>java.io.IOException</exception-type>

<location>/error</location>

</error-page>

</web-app>

3.MyExceptionServlet.java

package com.example;

import java.io.IOException;

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("/myExceptionServlet")

public class MyExceptionServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

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

throw new ServletException("HTTP GET Method Is Not Supported.");

}

}

4.ErrorHandler.java

package com.example;

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("/error")

public class ErrorHandler extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*\*\*\* This Method Is Called By The Servlet Container To Process A 'GET' Request \*\*\*\*\*/

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

handleRequest(request, response);

}

public void handleRequest(HttpServletRequest request, HttpServletResponse response) throws IOException, ServletException {

/\*\*\*\*\* Analyze The Servlet Exception \*\*\*\*\*/

Integer statusCode = (Integer) request.getAttribute("javax.servlet.error.status\_code");

String servletName = (String) request.getAttribute("javax.servlet.error.servlet\_name");

Throwable throwable = (Throwable) request.getAttribute("javax.servlet.error.exception");

if (servletName == null) {

servletName = "Unknown";

}

String requestUri = (String) request.getAttribute("javax.servlet.error.request\_uri");

if (requestUri == null) {

requestUri = "Unknown";

}

/\*\*\*\*\* Set Response Content Type \*\*\*\*\*/

response.setContentType("text/html");

/\*\*\*\*\* Print The Response \*\*\*\*\*/

PrintWriter out = response.getWriter();

String title = "Error/Exception Information";

String docType = "<!DOCTYPE html>\n";

out.println(docType

+ "<html>\n" + "<head><meta http-equiv=\"Content-Type\" content=\"text/html; charset=UTF-8\"><title>" + title + "</title></head>\n" + "<body>");

//for those who requested /error link without exception

if (throwable == null && statusCode == null) {

out.println("<h3>Error Information Is Missing</h3>");

} else if (statusCode != 500) {

//for 404-like missing index.jsp

out.write("<h3>Error Details</h3>");

out.write("<ul><li><strong>Status Code</strong>?= "+ statusCode + "</li>");

out.write("<li><strong>Requested URI</strong>?= "+ requestUri + "</li></ul>");

} else {

//for /myservletexception

out.println("<h3>Exception Details</h3>");

out.println("<ul><li><strong>Servlet Name</strong>?= " + servletName + "</li>");

out.println("<li><strong>Exception Name</strong>?= " + throwable.getClass( ).getName( ) + "</li>");

out.println("<li><strong>Requested URI</strong>?= " + requestUri + "</li>");

out.println("<li><strong>Exception Message</strong>?= " + throwable.getMessage( ) + "</li></ul>");

}

out.println("<div> </div>Click <a id=\"homeUrl\" href=\"index.jsp\">home</a>");

out.println("</body>\n</html>");

out.close();

}

}

Output 1 : no resouce for <http://localhost:8081/ExceptionHandling/> request

<http://localhost:8081/ExceptionHandling/>

### **Error Details**

* **Status Code**?= 404
* **Requested URI**?= /ExceptionHandling/

Click home

Output 2 : requested http://localhost:8081/ExceptionHandling/error without exception

### **Error Information Is Missing**

Click [home](http://localhost:8081/ExceptionHandling/index.jsp)

Output 3 : http://localhost:8081/ExceptionHandling/myExceptionServlet

throwing exception

### **Exception Details**

* **Servlet Name**?= com.example.MyExceptionServlet
* **Exception Name**?= javax.servlet.ServletException
* **Requested URI**?= /ExceptionHandling/myExceptionServlet
* **Exception Message**?= HTTP GET Method Is Not Supported.

Click [home](http://localhost:8081/ExceptionHandling/index.jsp)