

Lesson 01 Demo 05

Exception Handling in JSP

Objective: To explore exception handling in JSP

Tools required: Eclipse IDE

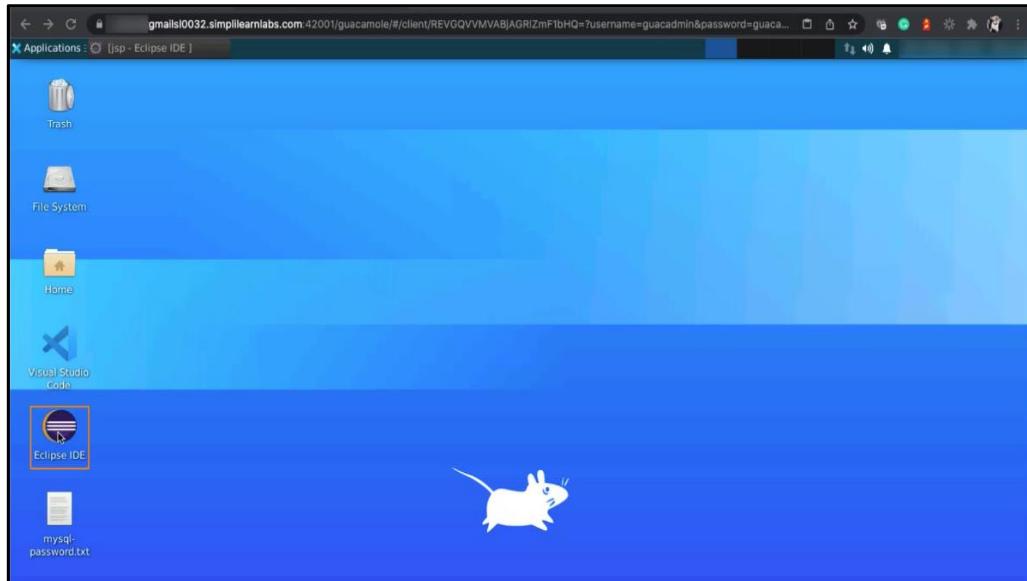
Prerequisites: None

Steps to be followed:

1. Open the tags.jsp file
2. Create a new JSP File
3. Create another JSP file

Step 1: Open the tags.jsp file

1.1 Open Eclipse IDE in your lab



1.2 Next, open the **eStoreDynamicWeb** project, navigate to the **webapp** folder, and open **tags.jsp**

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
<%@ pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JSP Tags</title>
</head>
<body>
10    <h3>Accessing elements from Declarative Tag in Beginning of the Page</h3>
11    <%>
12        out.print("AppName: "+appName+ "<br>");
13        out.print(punchLine+ "<br>");
14        out.print("Discount: "+getDiscount("JUMBO")+" <br>");
15    <%>
16
17
18    <h3>Scriptlet Tag</h3>
19    <%>
20        int x = 10;
21        int y = 20;
22        int z = x * y;
23
24        String name = "Fionna";
25        out.print("z is: "+z+"<br>");
26        out.print("Name is: "+name);
27
28
29
30
31    <h3>Declarative Tag</h3>
32
33    <%!
34        String appName = "eStore";
35        String punchLine = "We Deliver in no time";
36
37        double getDiscount(String promoCode){
38
39            if(promoCode.equals("JUMBO")){
40                return 0.40;
41            }
42
43            return 0.20;
44        }
45
46        int[] cashBacks = {10, 20, 30, 40, 50, 60, 70, 80, 90, 100};
47
48
49    <%>
50        out.print("Name is: "+name+"<br>");
51        out.print("Discount is: "+getDiscount("APPY")+"<br>");
52

```

1.3 Now, create an array **cashBacks** with the following set of elements:

int[] cashBacks = {10, 20, 30, 40, 50, 60, 70, 80, 100}

```

String name = "Fionna";
out.print("z is: "+z+"<br>");
out.print("Name is: "+name);

<h3>Declarative Tag</h3>

<%!
String appName = "eStore";
String punchLine = "We Deliver in no time";

double getDiscount(String promoCode){

    if(promoCode.equals("JUMBO")){
        return 0.40;
    }

    return 0.20;
}

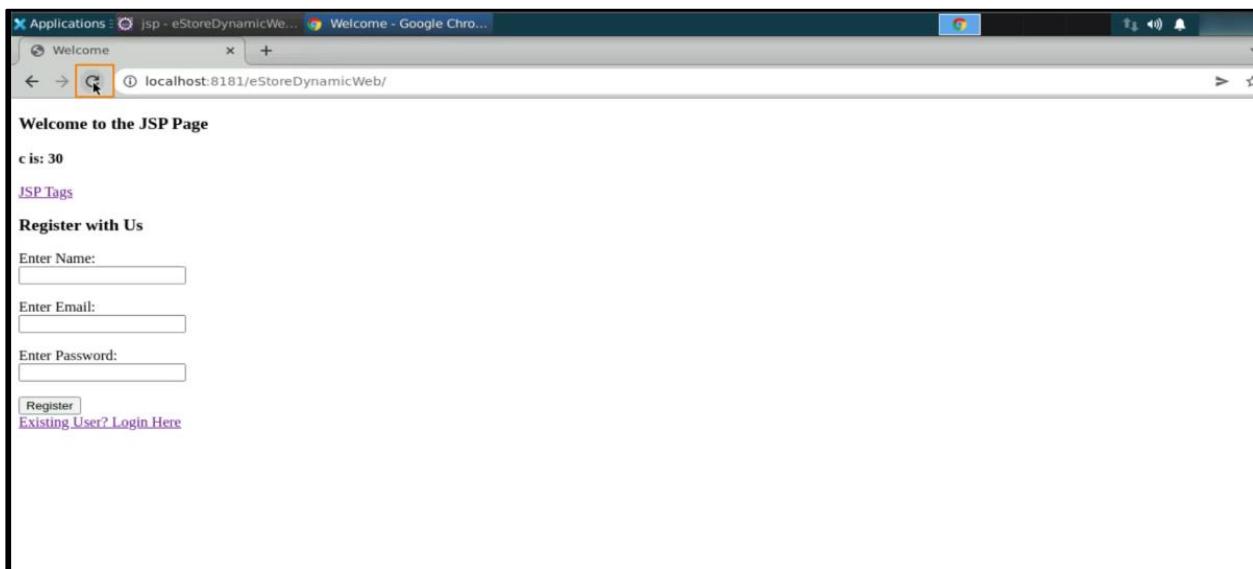
int[] cashBacks = {10, 20, 30, 40, 50, 60, 70, 80, 90, 100};

<%>
out.print("Name is: "+name+"<br>");
out.print("Discount is: "+getDiscount("APPY")+"<br>");

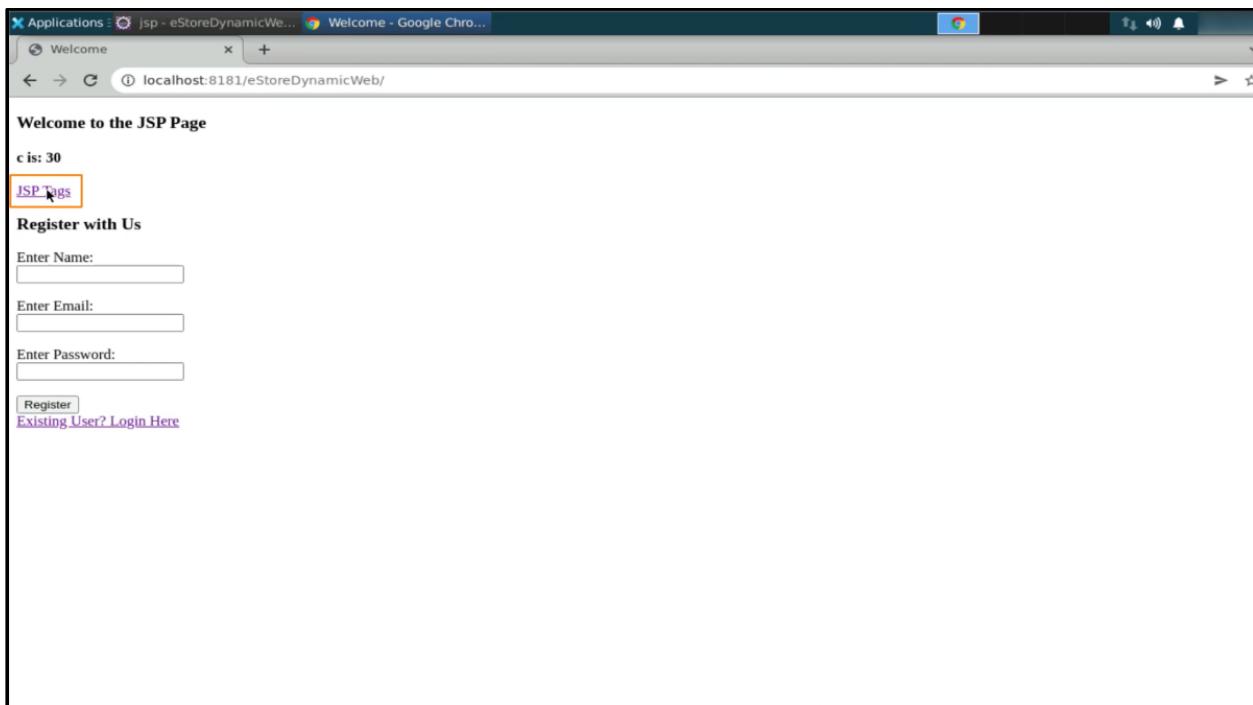

```

Print the third index value of the array using <h3>

1.4 Go to the browser and refresh the page



1.5 Click on the JSP Tags link to view the output



The following output can be seen:

```

Accessing elements from Declarative Tag in Beginning of the Page
AppName: eStore
We Deliver in no time
Discount: 0.4

Scriptlet Tag
z is: 200
Name is: Fionna

Declarative Tag
Name is: Fionna
Discount is: 0.2

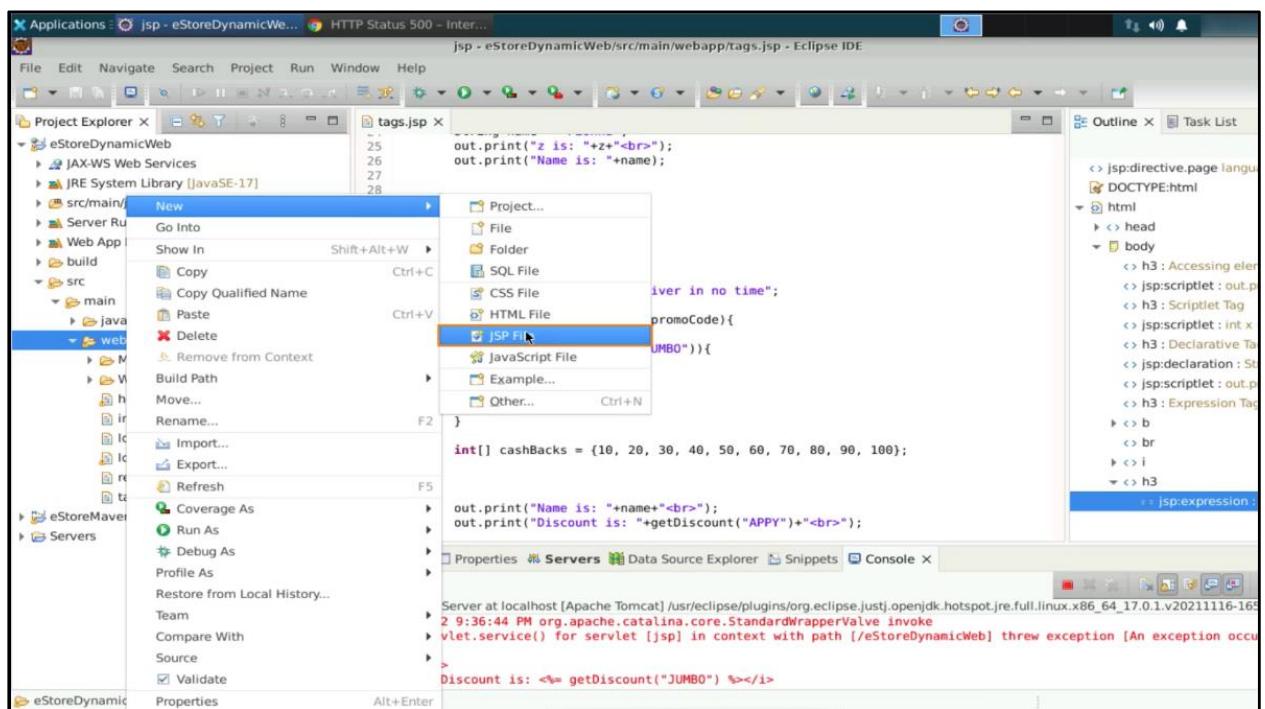
Expression Tag
App Name is: eStore
Discount Is: 0.4

CashBack Earned is: 40

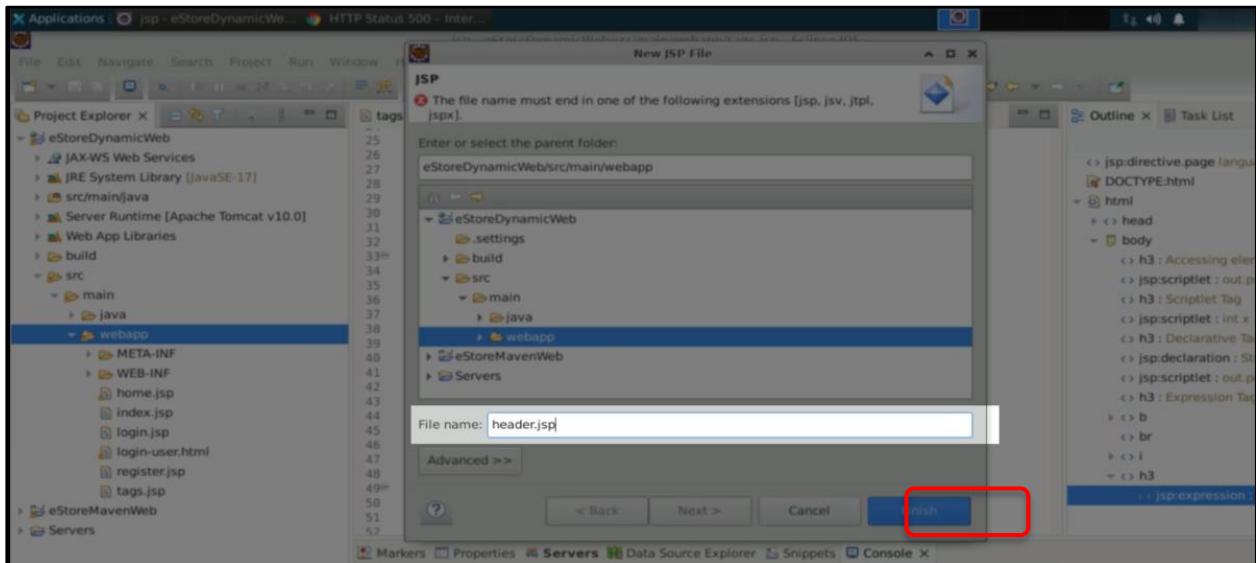
```

Step 2: Create a new JSP file

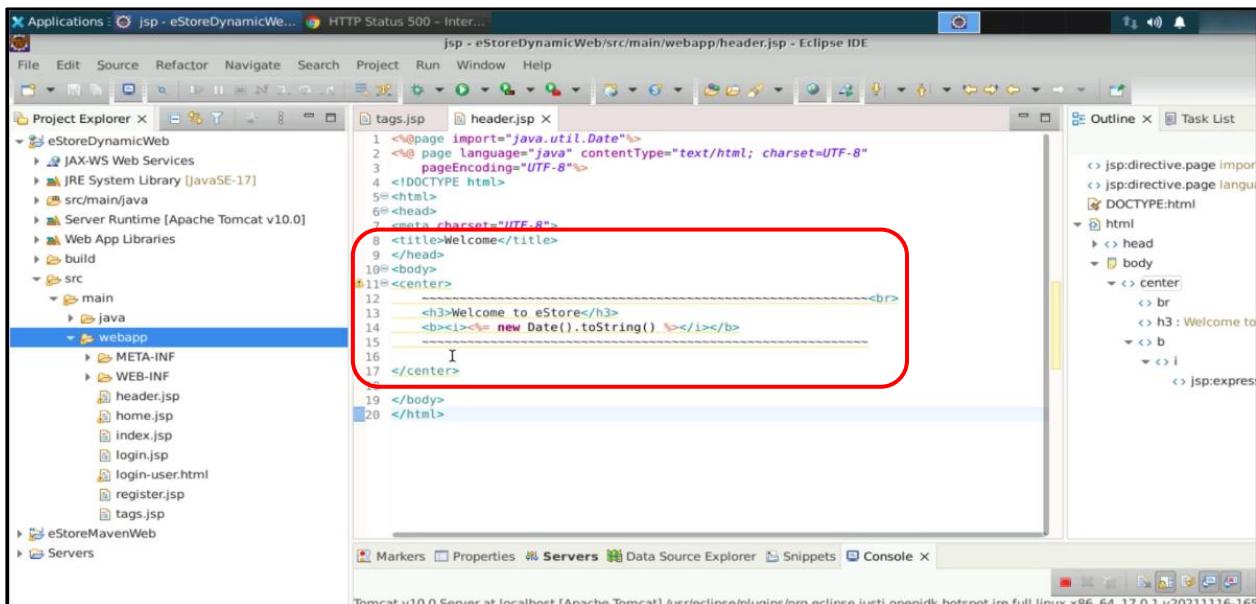
2.1 Right-click on the **webapp** folder, click **New** and select **JSP File**



2.2 Name the file as **header.jsp** and click on **Finish**

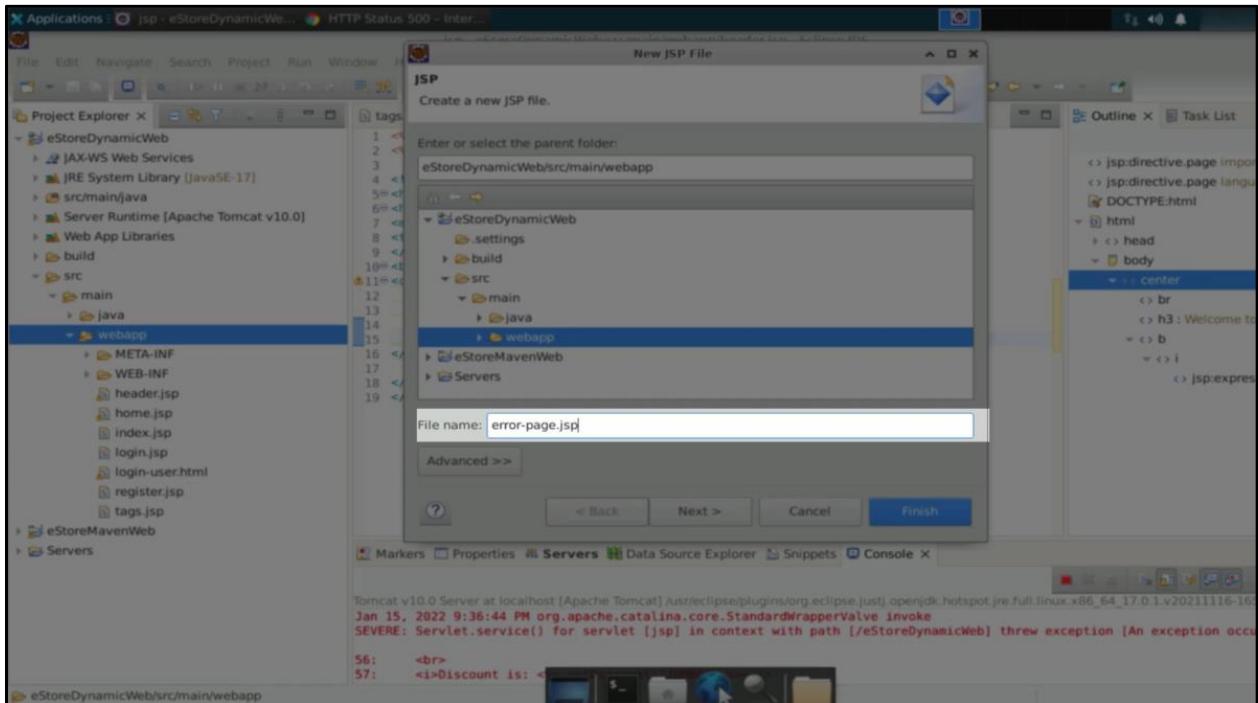


2.3 This file will be a page. Now to view the page, write the following code from lines 8-17:

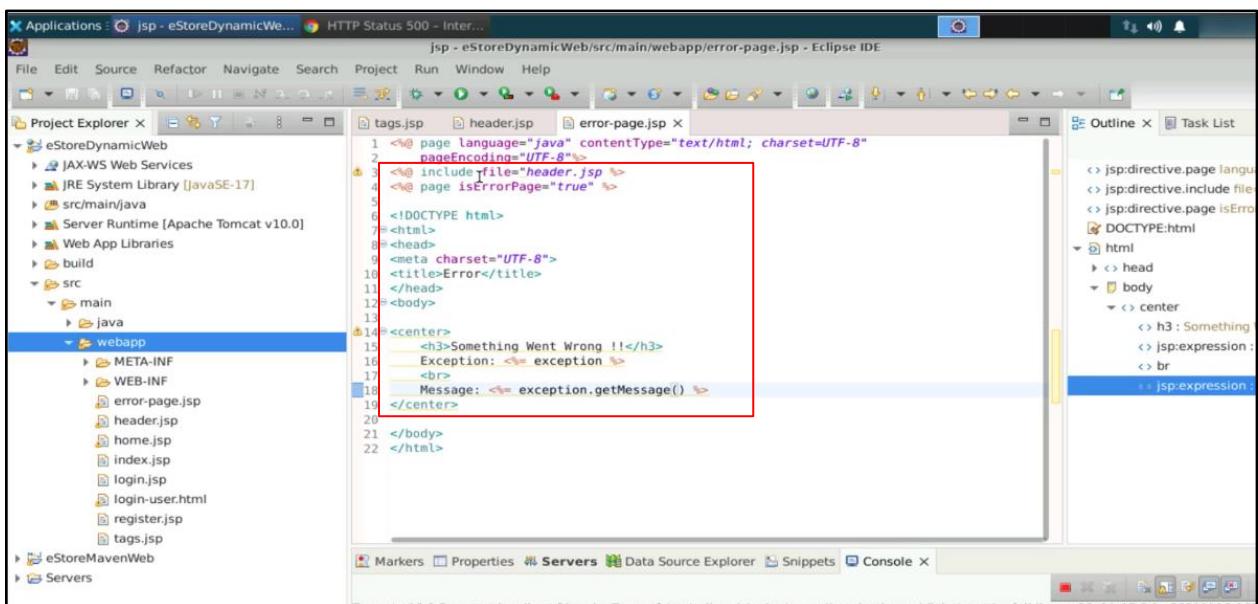


Step 3: Create another JSP file

3.1 Now, create another JSP file and name it **error-page.jsp**



3.2 Now, the error-page.jsp shows the error by adding a **header.jsp**. Write the following lines of code (from lines 3 to 18):



3.3 Go to the **tags.jsp** file and write the following code (line 3):

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
%>
<%@ include file="header.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JSP Tags</title>
</head>
<body>
<h3>Accessing elements from Declarative Tag in Beginning of the Page</h3>
<br>
<out.print("AppName: "+appName+ "<br>");>
<out.print(punchLine+ "<br>");>
<out.print("Discount: "+getDiscount("JUMBO")+" <br>");>
<br>
<h3>Scriptlet Tag</h3>
<br>
int x = 10;
int y = 20;
int z = x * y;
String name = "Fionna";
out.print("z is: "+z+"<br>");>
out.print("Name is: "+name);

```

3.4 Go to the **index.jsp** file and write the following code (line 3):

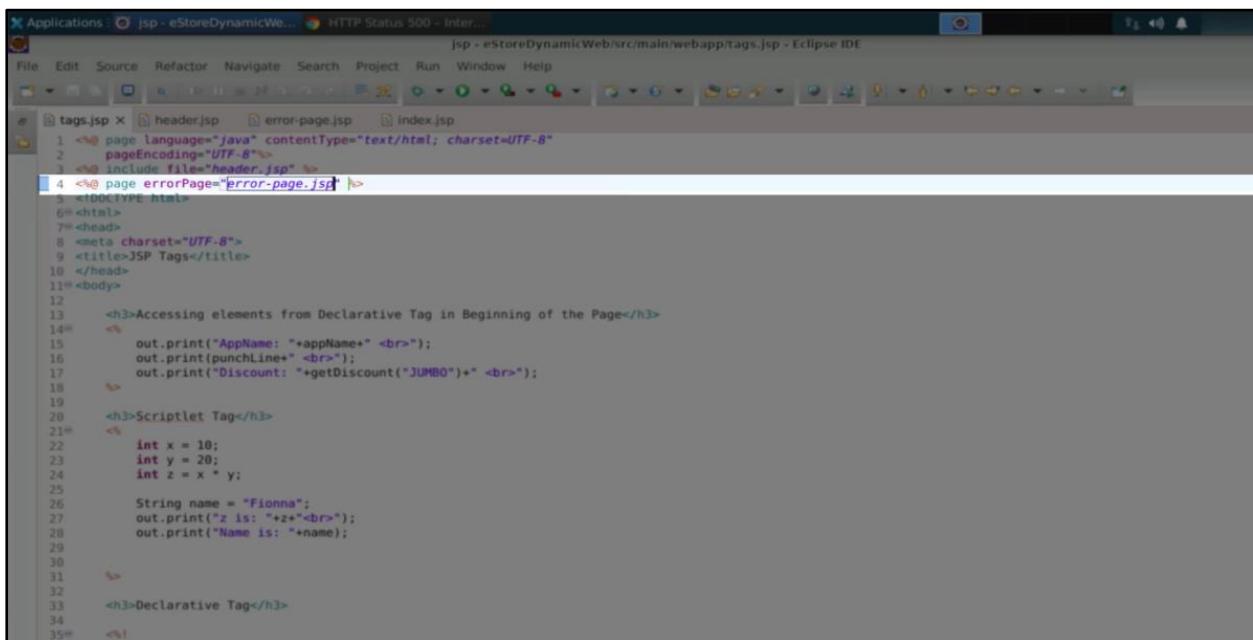
```

<%@ page language="java" contentType="text/html; charset=UTF-8"
%>
<%@ include file="header.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Welcome</title>
</head>
<body>
<h3>Welcome to the JSP Page</h3>
<br>
int a = 10;
int b = 20;
int c = a + b;
out.print("<h4>c is: "+c+"</h4>");

<a href='tags.jsp'>JSP Tags</a>
<br>
<h3>Register with Us</h3>
<br>
<div style="align-items: center;">
<form action="register.jsp" method="post">
Enter Name: <br>

```

3.5 Go to the **tags.jsp** file and write the following code (line 4):

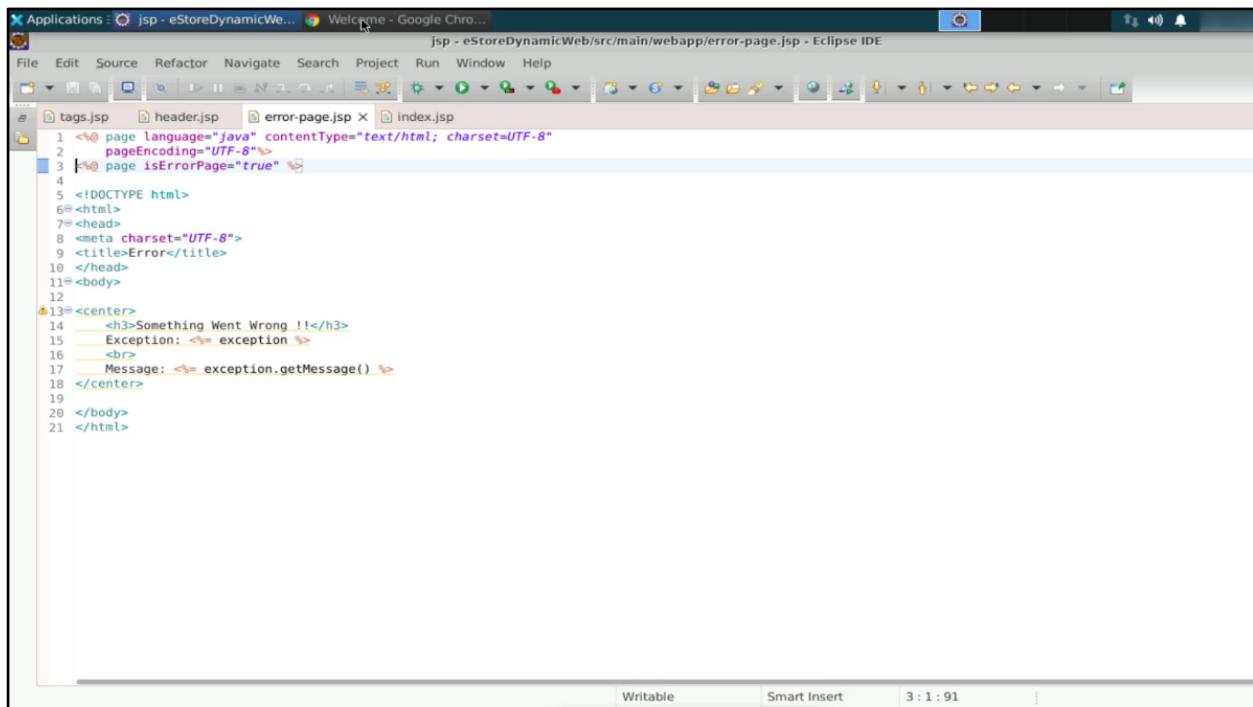


```

<%@ page language="java" contentType="text/html; charset=UTF-8"
%>
<%@ include file="header.jsp" %>
<%@ page errorPage="error-page.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JSP Tags</title>
</head>
<body>
<h3>Accessing elements from Declarative Tag in Beginning of the Page</h3>
<%
    out.print("AppName: "+appName+ " <br>");
    out.print(punchLine+ " <br>");
    out.print("Discount: "+getDiscount("JUMBO")+" <br>");<br>
<%
<h3>Scriptlet Tag</h3>
<%
    int x = 10;
    int y = 20;
    int z = x * y;
    String name = "Fionna";
    out.print("z is: "+z+"<br>");
    out.print("Name is: "+name);
<%
<h3>Declarative Tag</h3>
<%

```

3.6 Delete **<include.....>** from the error page

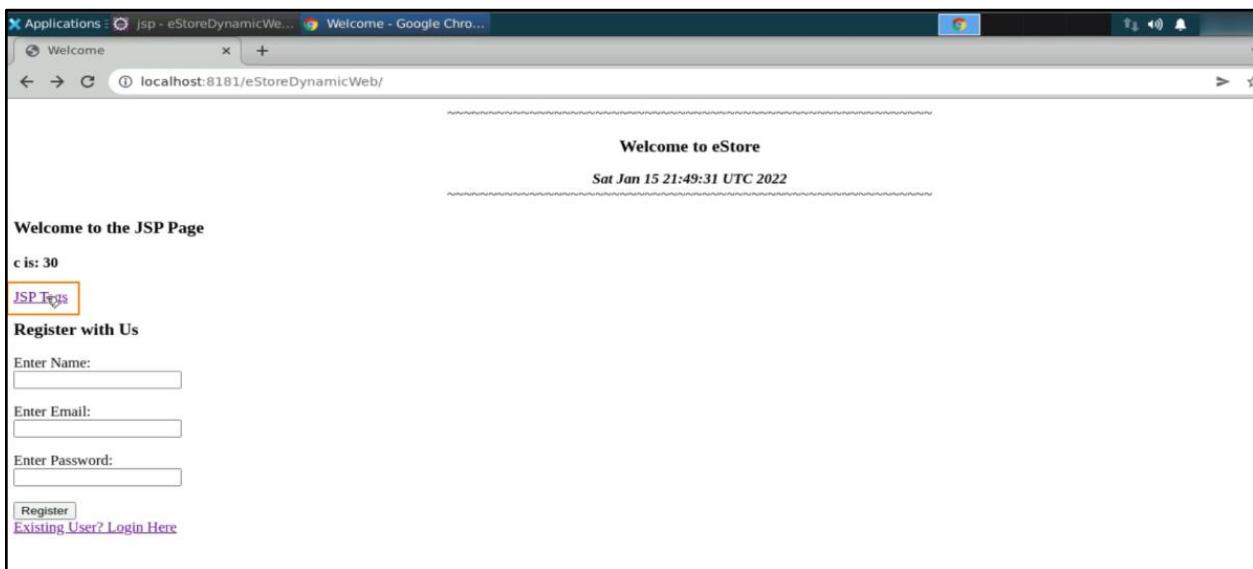


```

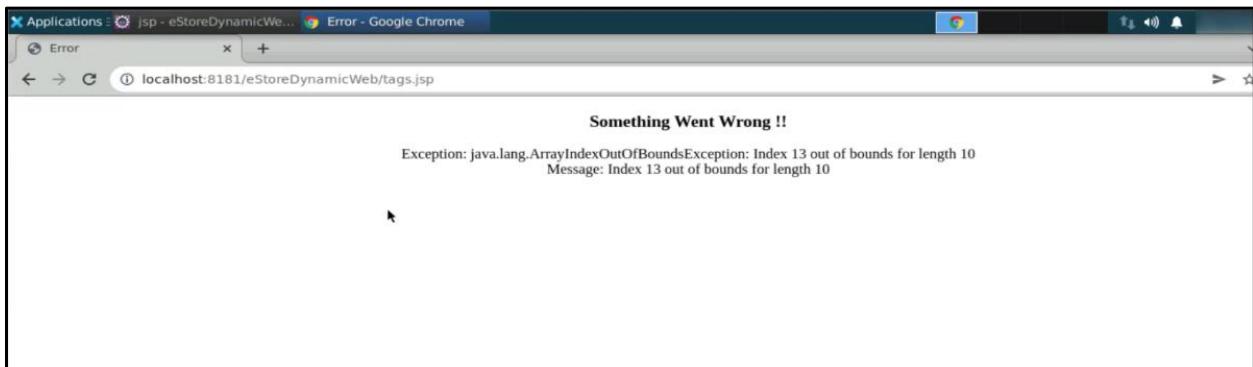
<%@ page language="java" contentType="text/html; charset=UTF-8"
%>
<%@ page isErrorPage="true" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Error</title>
</head>
<body>
<center>
<h3>Something Went Wrong !!</h3>
Exception: <%
exception %>
<br>
Message: <%
exception.getMessage() %>
</center>
</body>
</html>

```

3.7 Click on the JSP Tags link



The following output can be seen:



By following these steps, you have successfully explored exception handling in JSP.