

SERVLETS AND JSP COURSE

EXERCISE

JSP DOCUMENTS

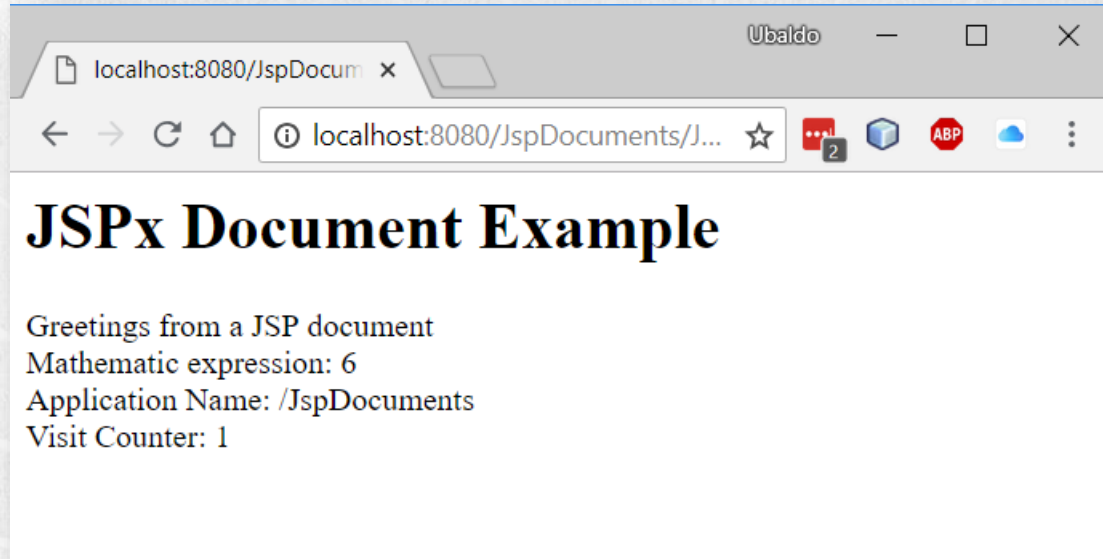


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EXERCISE OBJECTIVE

Create a program for the basic management of JSP documents (jspx). At the end we should observe the following:



1. CREATE A NEW PROJECT

Create a new web Project using Maven:

New Web Application [X]

Steps

1. Choose Project
2. **Name and Location**
3. Settings

Name and Location

Project Name: JspDocuments

Project Location: C:\Courses\Servlets\Lesson12 [Browse...]

Project Folder: C:\Courses\Servlets\Lesson12\JspDocuments

Artifact Id: JspDocuments

Group Id: web

Version: 1

Package: (Optional)

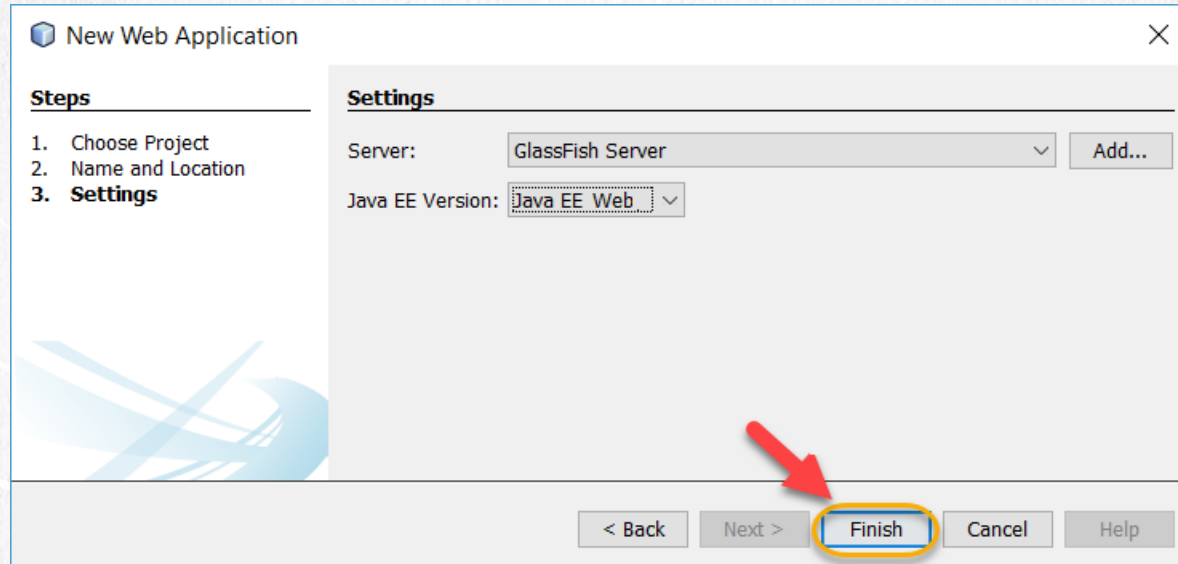
< Back **Next >** Finish Cancel Help

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1. CREATE A NEW PROJECT

Create a new project:



New Web Application [X]

Steps

1. Choose Project
2. Name and Location
3. **Settings**

Settings

Server: GlassFish Server [v] [Add...]

Java EE Version: Java EE Web [v]

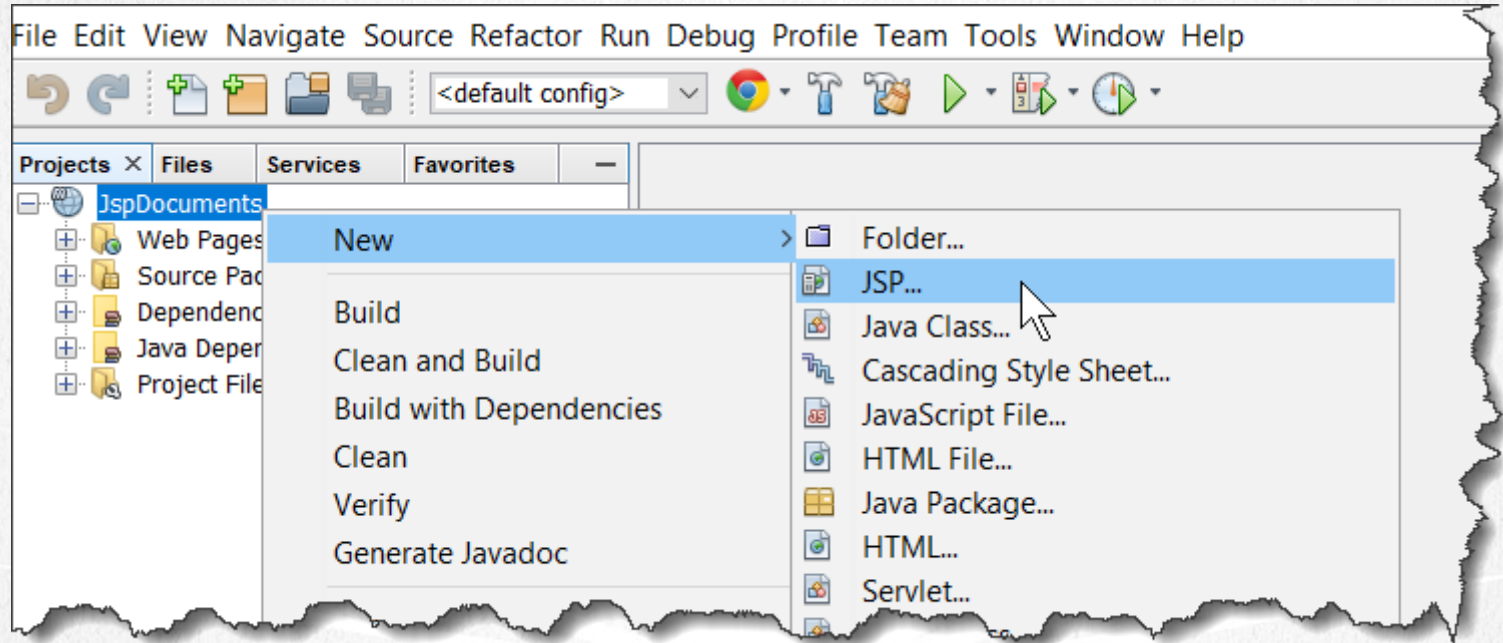
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2. CREATE A NEW JSP

Create a new JSP:



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2. CREATE A NEW PROJECT (CONT)

Create a new project:

New JSP

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

File Name: JspDocument

Project: JspDocuments

Location: Web Pages

Folder: Browse...

Created File: C:\Courses\Servlets\Lesson12\JspDocuments\src\main\webapp\JspDocument.jspx

Options:

☐ JSP File (Standard Syntax) ☐ Create as a JSP Segment

☒ JSP Document (XML Syntax)

Description:

A JSP file using XML syntax.

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If the IDE does not have the option to create JSP documents, they can simply create a JSP file and change the extension to .jspx

3. MODIFY THE FILE

JspDocument.jspx:

Click to download

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

<jsp:root xmlns:jsp="http://java.sun.com/JSP/Page" version="2.1">

    <jsp:directive.page contentType="text/html" pageEncoding="UTF-8"/>

    <!--Use of declarations -->
    <jsp:declaration>
        private int visitCounter = 1;
    </jsp:declaration>

    <html>
        <body>
            <h1>JSPx Document Example</h1>

            <!-- Output text Example -->
            <jsp:text>Greetings from a JSP document</jsp:text>

            <br/>

            <!-- Expression Example -->
            Mathematic expression:
            <jsp:expression> 2 * 3</jsp:expression>
```


3. MODIFY THE FILE

JspDocument.jspx:

[Click to download](#)

```
<br/>

<!--Scriptlet Example-->
<jsp:scriptlet>
    String applicationName = request.getContextPath();
</jsp:scriptlet>

Application Name:
<jsp:expression> applicationName </jsp:expression>

<br/>

Visit Counter:
<jsp:expression> this.visitCounter++</jsp:expression>

</body>
</html>

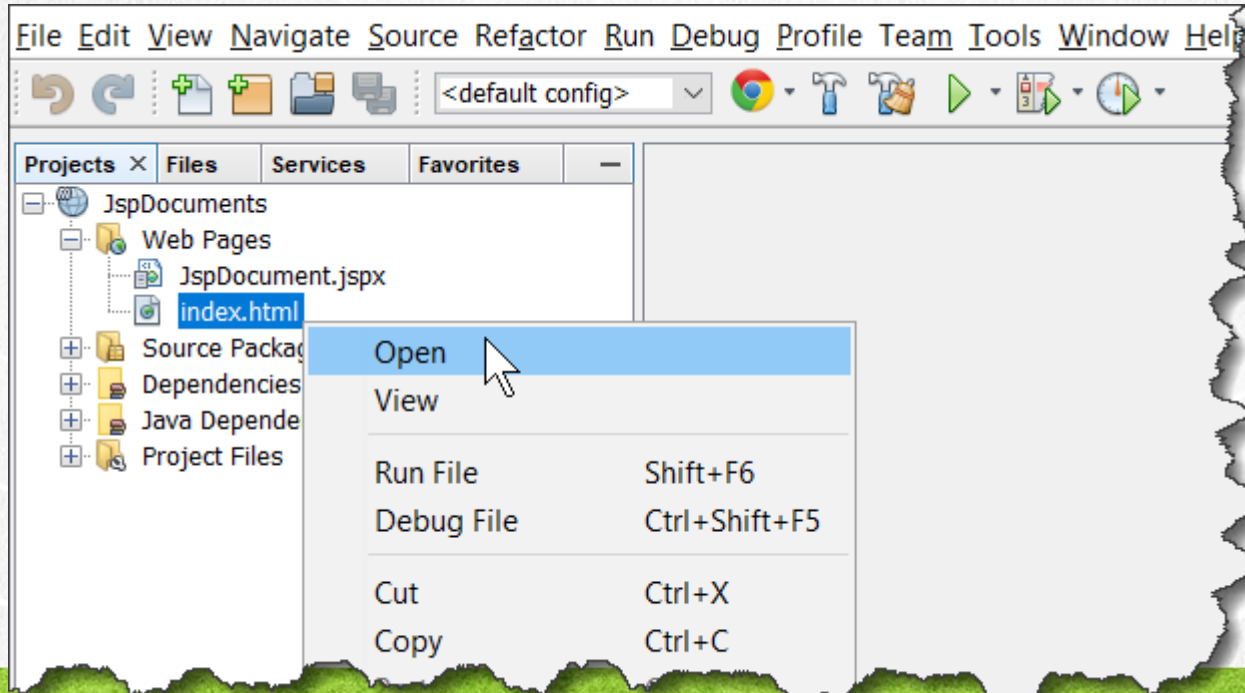
</jsp:root>
```

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4. MODIFY THE FILE

Modify the index.html file:



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4. MODIFY THE FILE

[index.html:](#)

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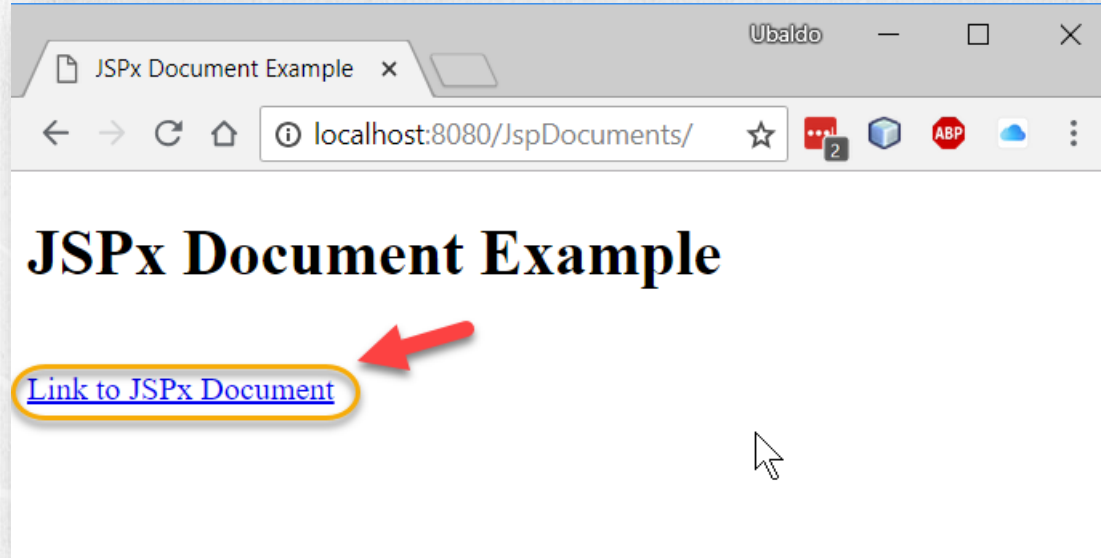
```
<!DOCTYPE html>
<html>
  <head>
    <title>JSPx Document Example</title>
  </head>
  <body>
    <h1>JSPx Document Example</h1>
    <br>
    <a href="JspDocument.jspx">Link to JSPx Document</a>
  </body>
</html>
```

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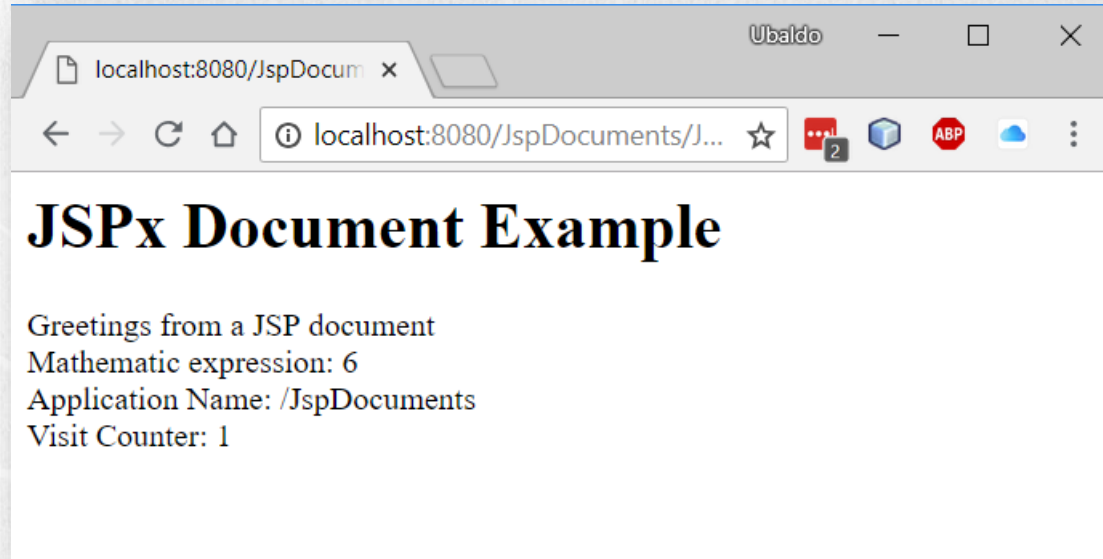
5. EXECUTE THE PROJECT

The result is as follows:



5. EXECUTE THE PROJECT (CONT)

The result is as follows:



EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of JSP documents, and we apply several elements using this type of documents.
- We saw how the same elements that we have applied to the .jsp files, we can also use them but applying xml in the .jspx documents
- This allows us to formalize our file with XML validations, although it is optional to apply it to our Java Web projects.



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By: Eng. Ubaldo Acosta



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