

**SERVLETS AND JSP COURSE**

# **EXERCISE**

## **DYNAMIC INCLUSION WITH JSP' S**

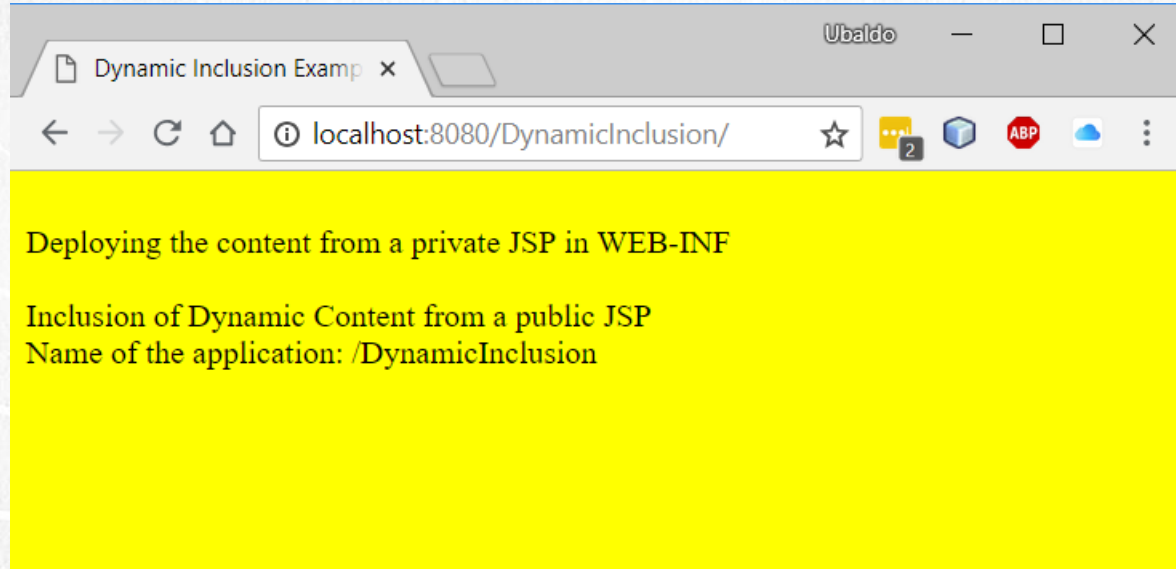


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# EXERCISE OBJECTIVE

Create a program to practice dynamic inclusion using JSP's. At the end we should observe the following:

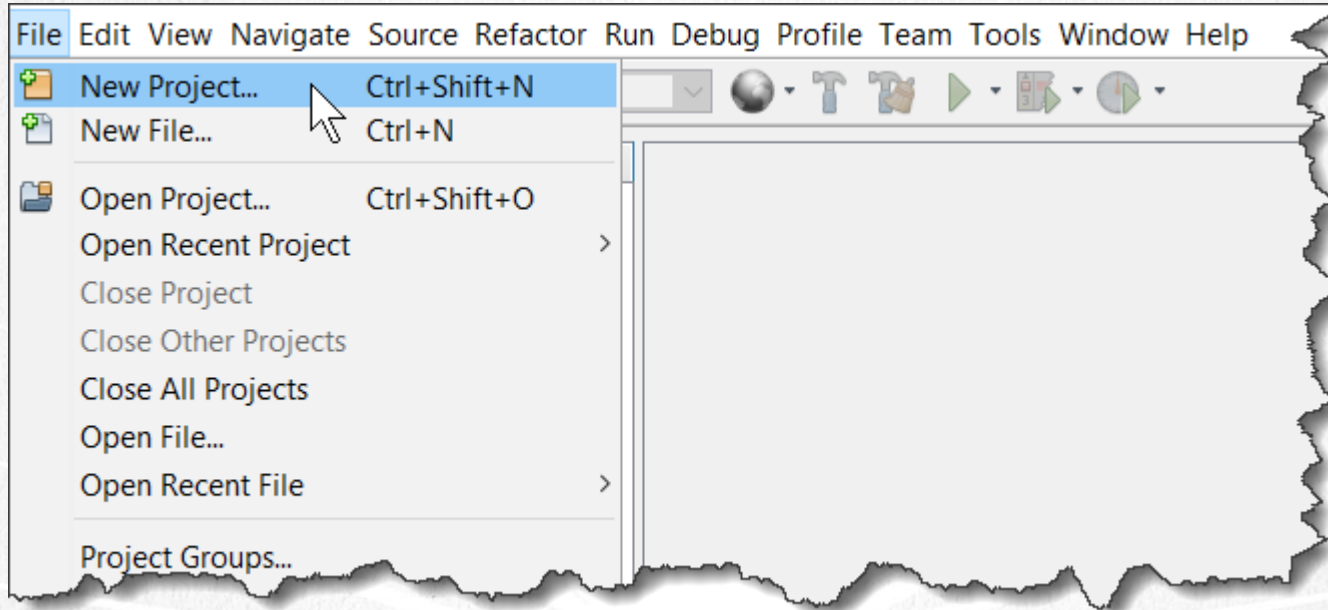


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# 1. CREATE A NEW PROJECT

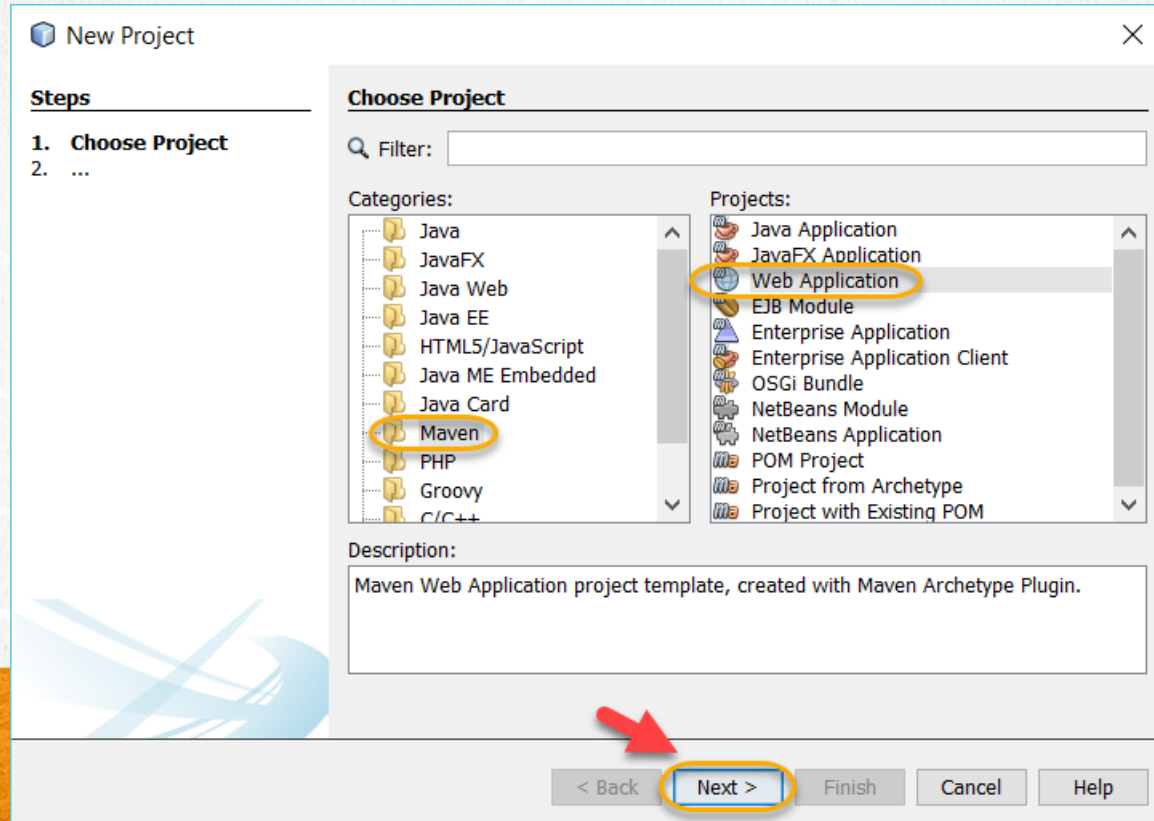
Create a new project:





# 1. CREATE A NEW PROJECT

Create a new project:



# 1. CREATE A NEW PROJECT

Create a new project:

**New Web Application**

**Steps**

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

**Name and Location**

Project Name: DynamicInclusion

Project Location: C:\Courses\Servlets\Lesson14 Browse...

Project Folder: C:\Courses\Servlets\Lesson14\DynamicInclusion

Artifact Id: DynamicInclusion

Group Id: web

Version: 1

Package: (Optional)

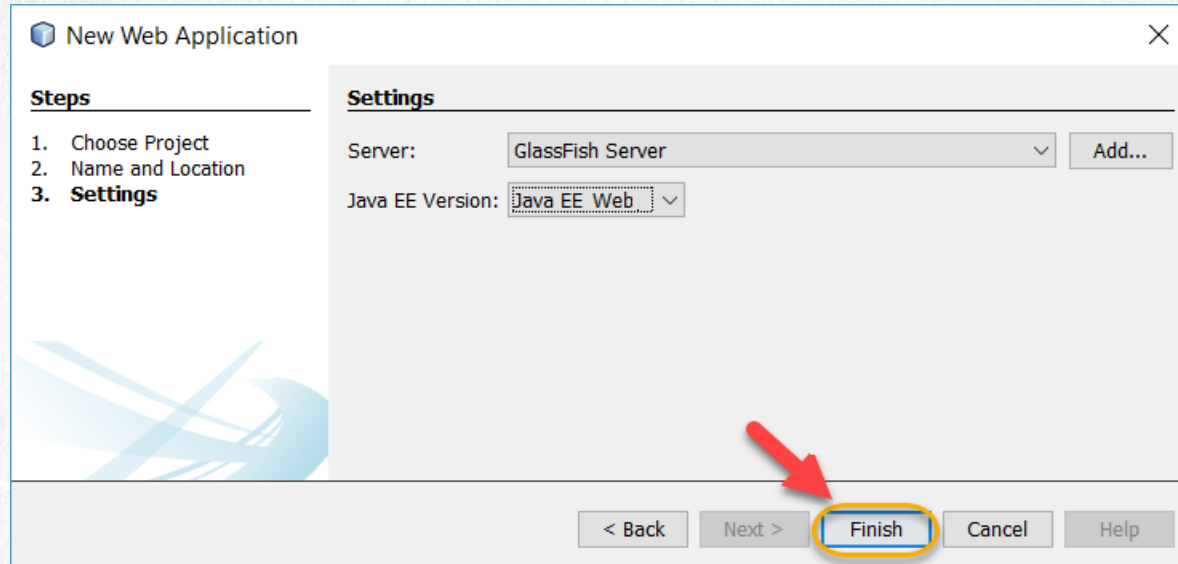
< Back **Next >** Finish Cancel Help

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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]

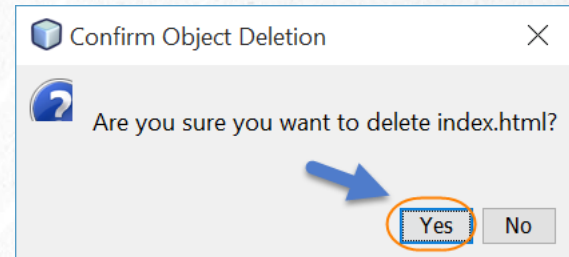
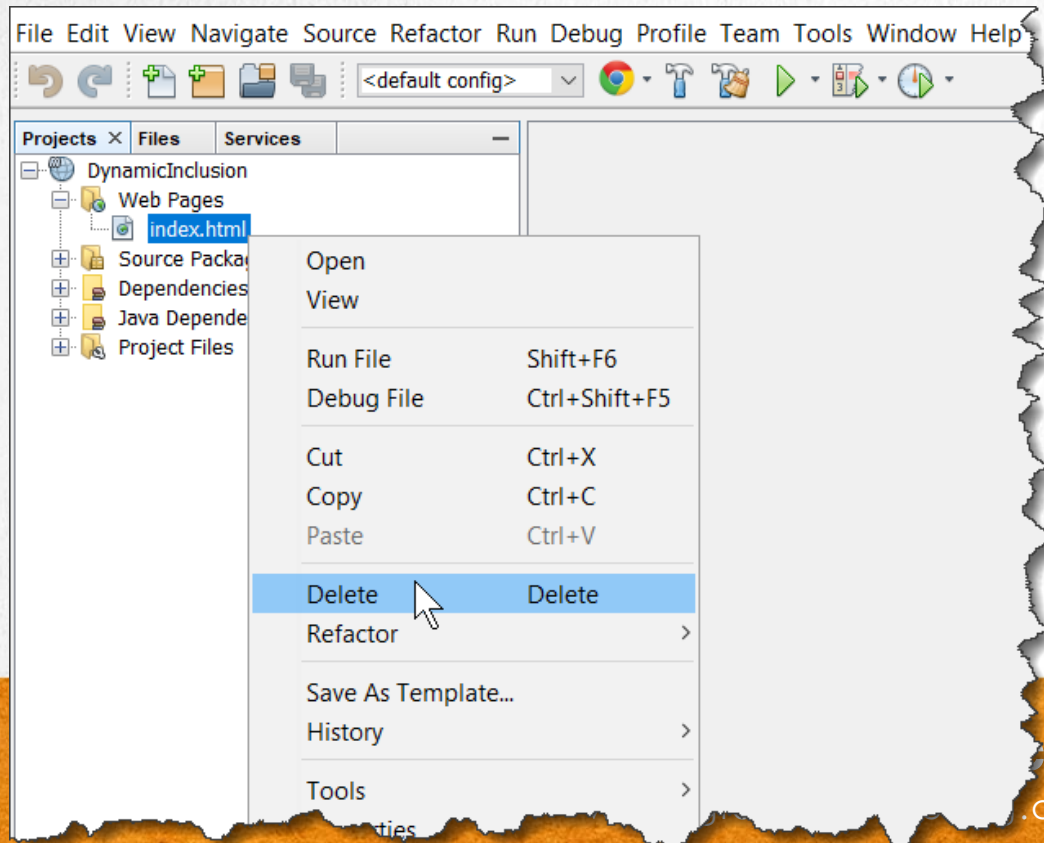
< Back   Next >   **Finish**   Cancel   Help

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## 2. DELETE THE INDEX.HTML FILE

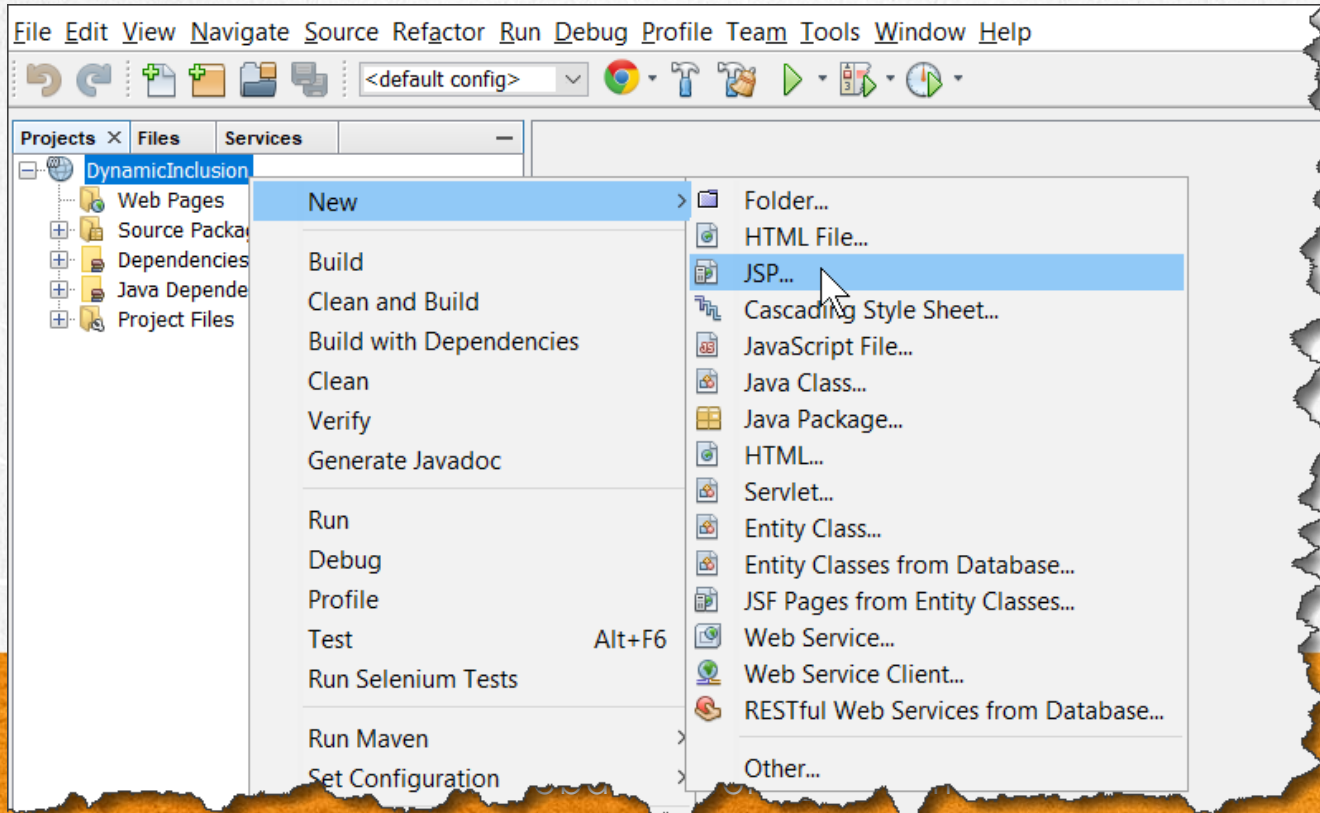
Delete the index.html file:





### 3. CREATE A NEW JSP

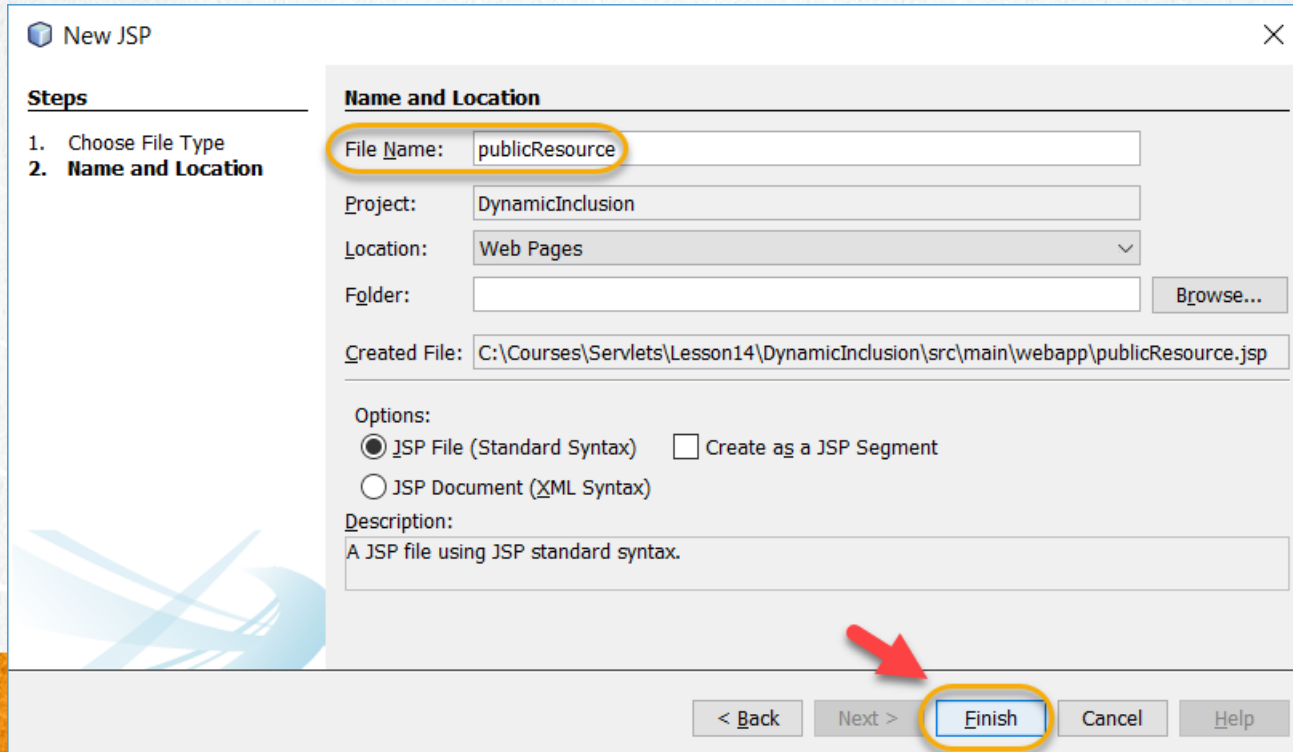
Create the publicResource.jsp file:





### 3. CREATE A NEW JSP

Create the publicResource.jsp:



**New JSP**

**Steps**

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

**Name and Location**

File Name:

Project:

Location:

Folder:

Browse...

Created File:

Options:

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

☐ JSP Document (XML Syntax)

Description:

A JSP file using JSP standard syntax.

< Back Next > **Finish** Cancel Help

## 4. MODIFY THE CODE

publicResource.jsp:

<br>

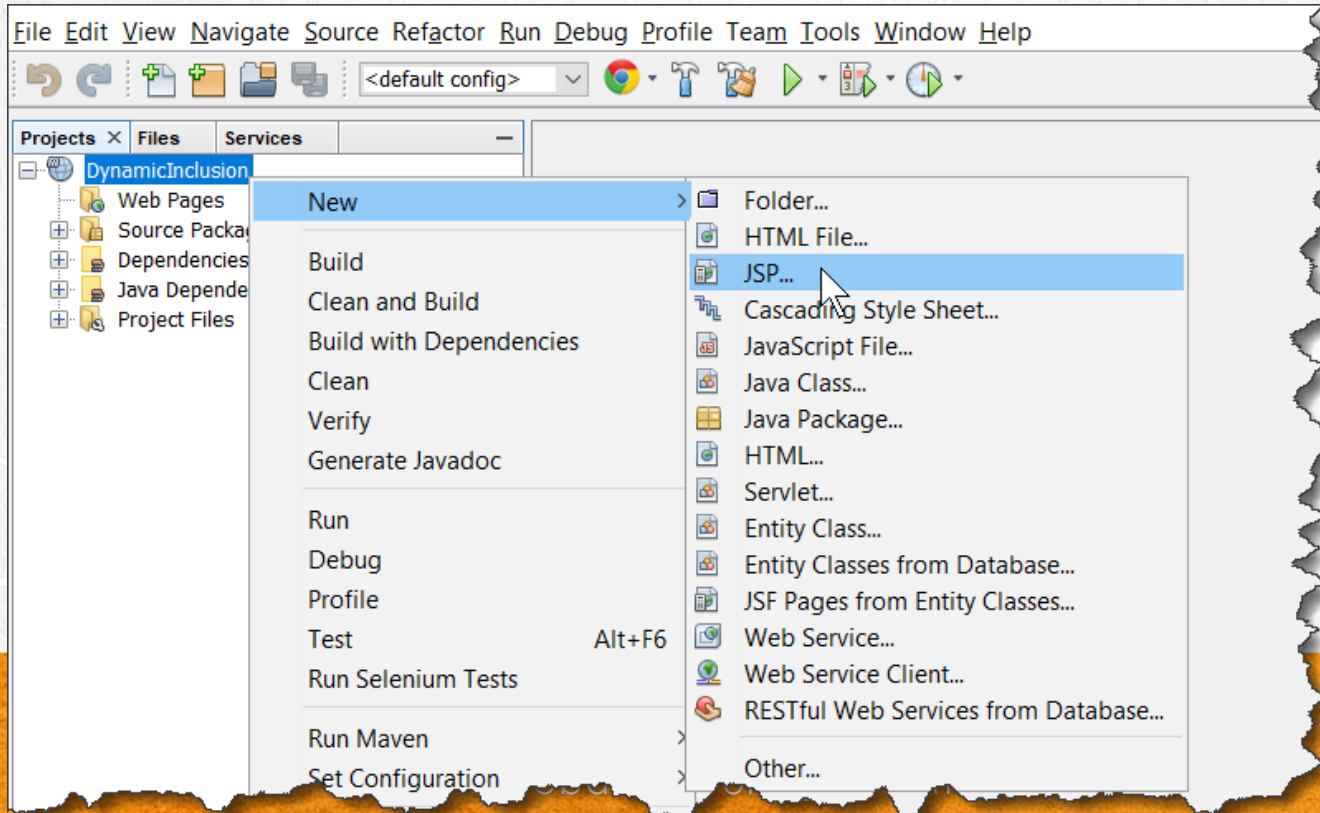
Inclusion of Dynamic Content from a public JSP

<br>

Name of the application: <%= request.getContextPath() %>

## 5. CREATE A NEW JSP

Create a new privateResource.jsp:





## 5. CREATE A NEW JSP

Create the privateResource.jsp file:

**New JSP**

**Steps**

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

**Name and Location**

File Name:

Project:

Location:

Folder:

Created File:

Options:

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

☐ JSP Document (XML Syntax)

Description:

< Back Next > **Finish** Cancel Help

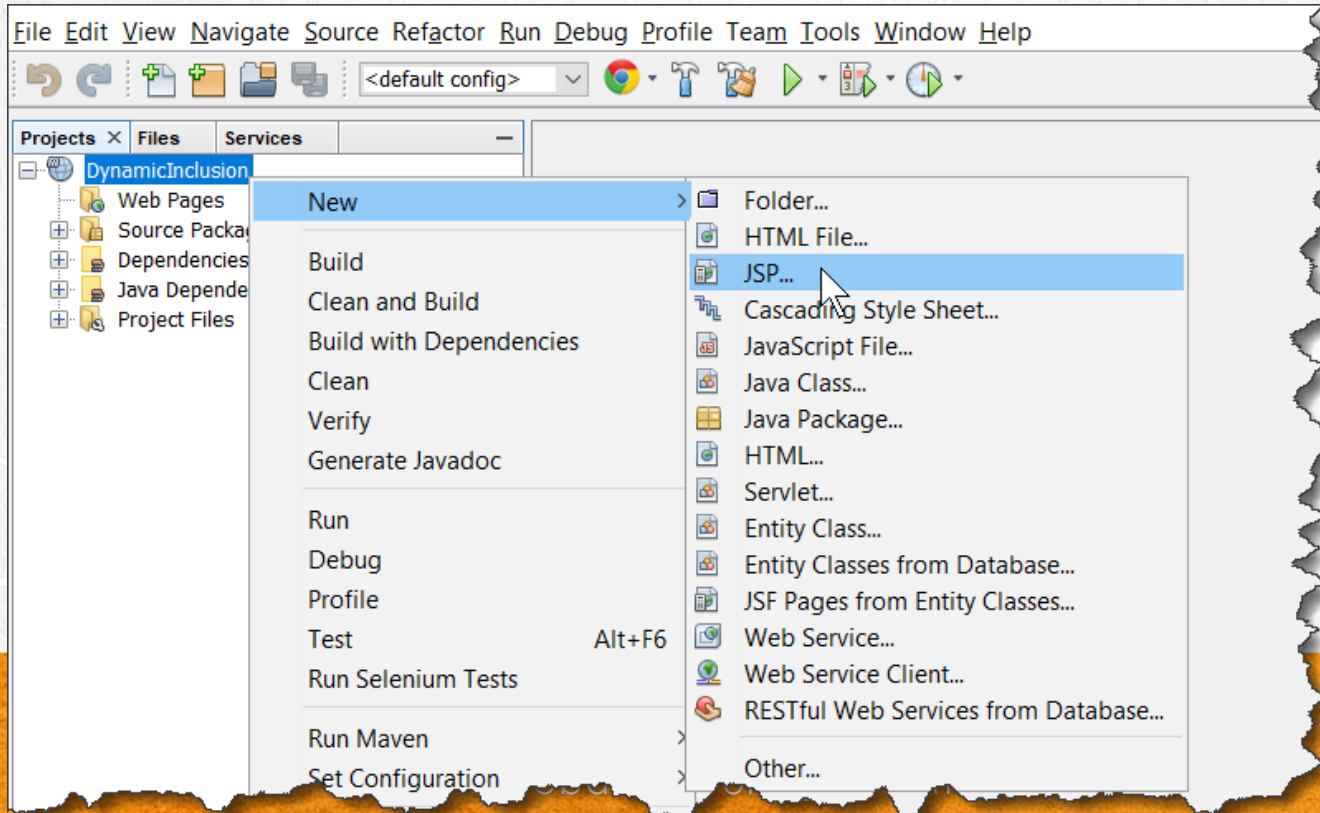
## 6. MODIFY THE FILE

privateResource.jsp:

```
<%  
String backgroundColor = request.getParameter("backgroundColor");  
if ( backgroundColor == null || backgroundColor.trim().equals("") ) {  
    backgroundColor = "white"; //valor por default  
}  
%>  
  
<body bgcolor="<%=backgroundColor%>" >  
    Deploying the content from a private JSP in WEB-INF  
</body>
```

# 7. CREATE A NEW JSP

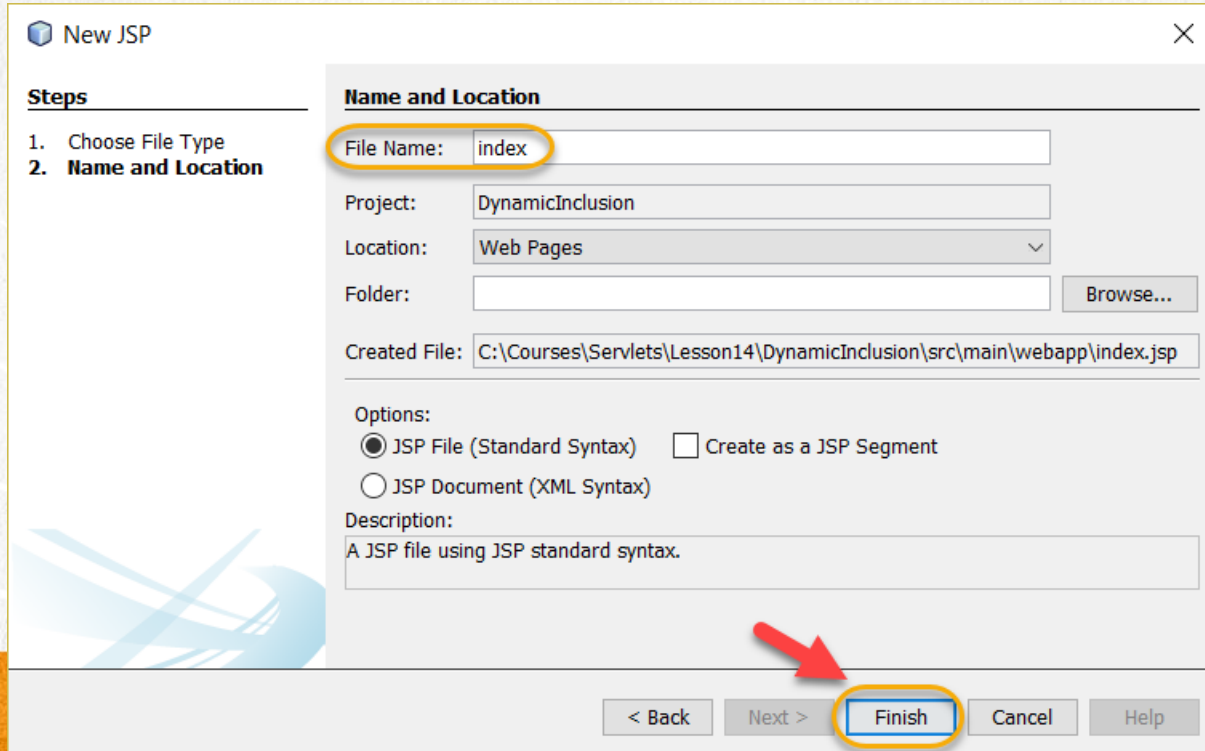
Create the index.jsp:





# 7. CREATE A NEW JSP

Create the index.jsp:



New JSP

**Steps**

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

**Name and Location**

File Name:

Project:

Location:

Folder:

Created File:

**Options:**

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

☐ JSP Document (XML Syntax)

**Description:**

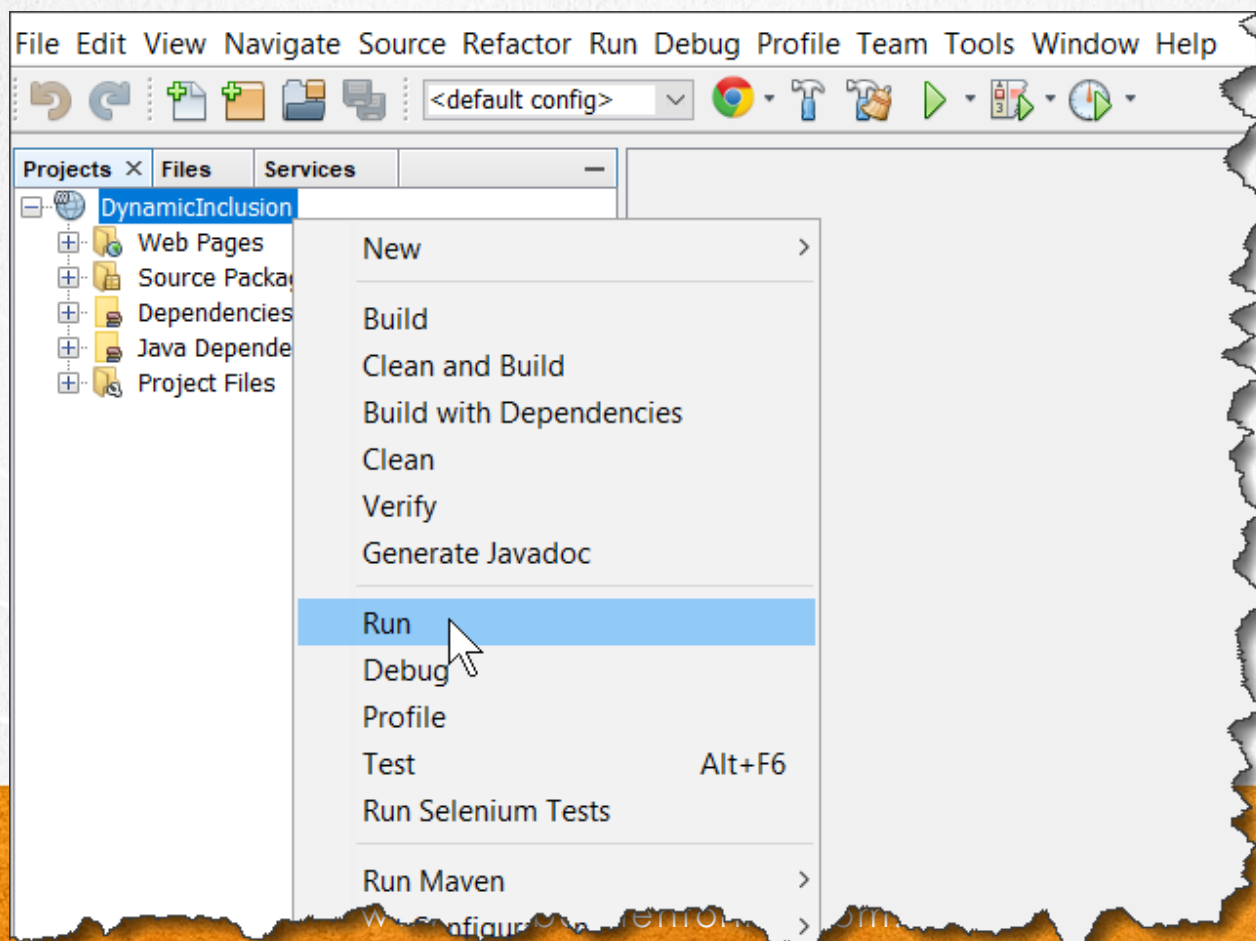
## 8. MODIFY THE CODE

index.jsp:

```
<html>
  <head>
    <title>Dynamic Inclusion Example</title>
  </head>
  <body>
    <br>
    <jsp:include page="WEB-INF/privateResource.jsp">
      <jsp:param name="backgroundColor" value="yellow" />
    </jsp:include>

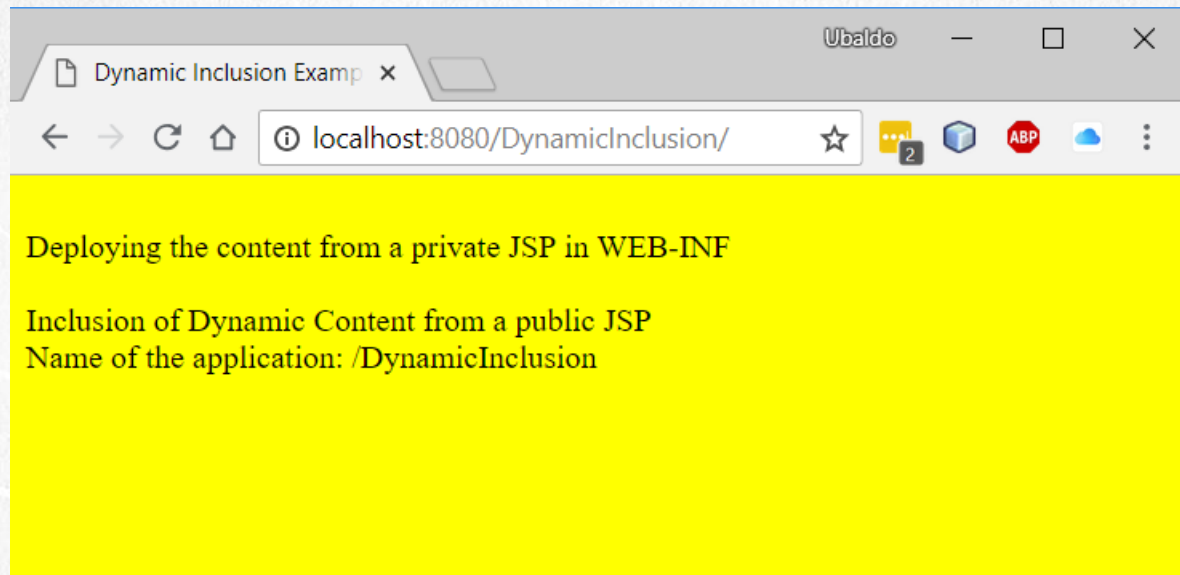
    <br>
    <jsp:include page="publicResource.jsp" />
  </body>
</html>
```

## 9. EXECUTE THE PROJECT





## 9. EXECUTE THE PROJECT



# EXERCISE CONCLUSION

As this exercise we have seen how to put into practice the concept of Dynamic Inclusion using JSPs.

We saw how unlike static inclusion, each JSP (compiled servlet) runs independently, so it is even possible to send parameters to the JSPs included in the main JSP.



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