

MODULE 5

WEB PAGES

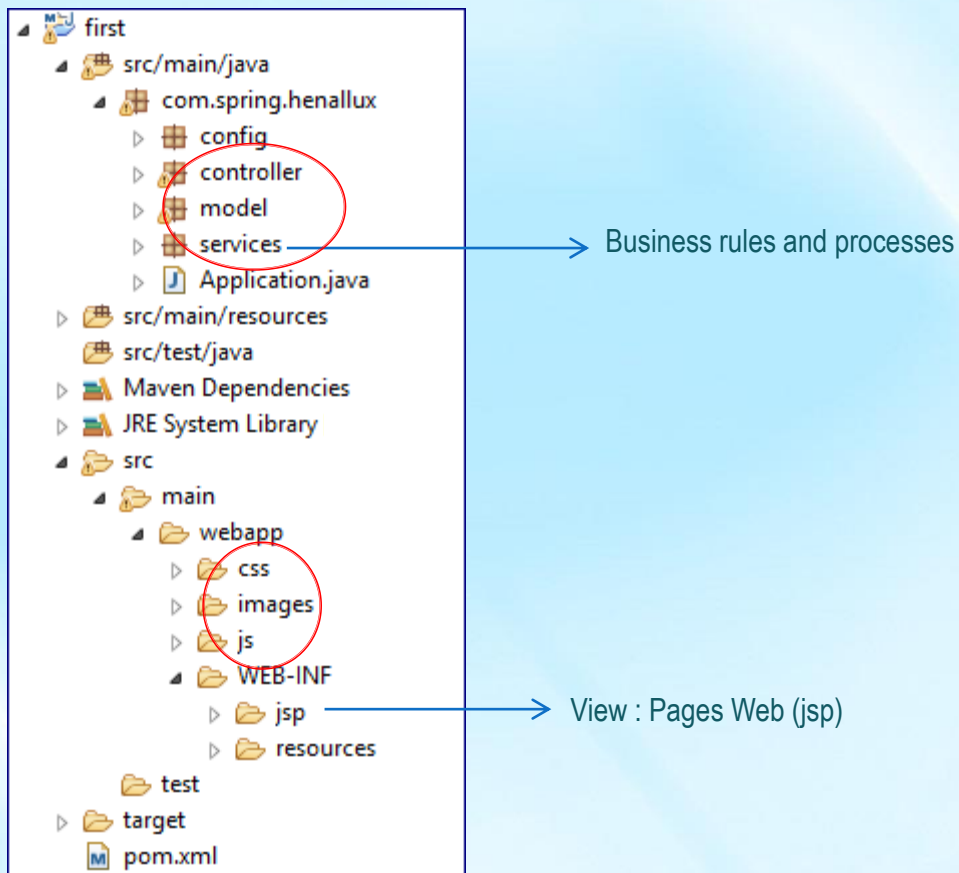
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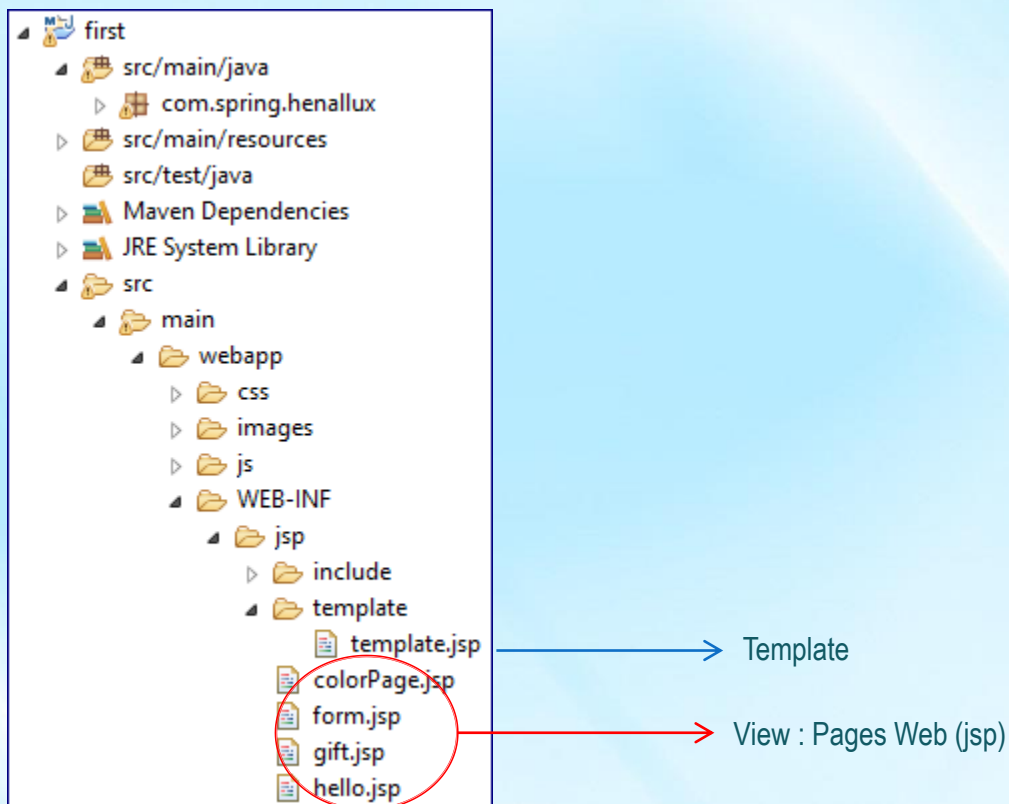
View Design

- ▶ Separation of content from presentation (look and formatting)
 - CSS
 - Template (*see module 7 – Template*)
- ▶ The look of the view
 - Is designed by designers (e.g, Infography)
 - Not by programmers

Project Structure



Project Structure



JSP Pages

- ▶ JavaServer Pages
 - Technology to create dynamically generated web pages
- ▶ Text document that contains
 - Static data expressed in text-based format, e.g., html
 - JSP elements to construct dynamic content

Tag Libraries

- ▶ Use Tag Libraries to add components to web pages
 - Include Tag Libraries at the beginning of jsp pages
- ▶ Tag libraries are declared with XML namespace
 - uri
 - prefix
- ▶ E.g, JSTL (*see module 6 – Controller*)
 - JavaServer Pages Standard Tag Library
 - Collection of tags to encapsulate core functionality
 - Support for common, structural tasks
 - such as iteration, conditionals, ...

Tag Libraries

- ▶ Example of namespace declaraton in jsp page

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="spring" uri="http://www.springframework.org/tags" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
```

- ▶ Example of tag use

```
<spring:url var = "actionValue" value="/form/actionInscription" />
```

```
<form:button>Submit</form:button>
```

```
<c:if test="${not empty messageToDisplay}">
    ${messageToDisplay}
</c:if>
```

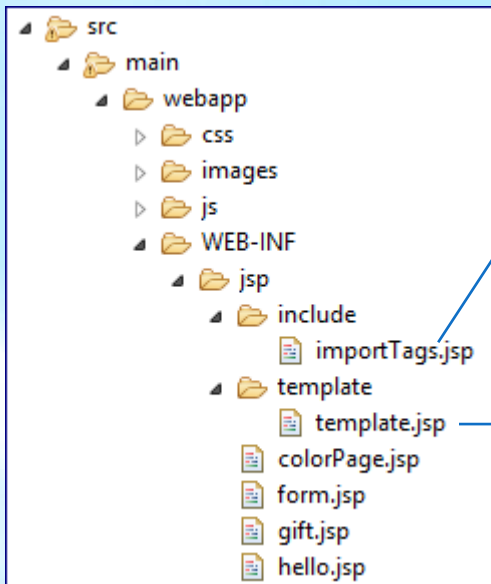

Include

- ▶ Include of a jsp page into another one
 - Use `<%@include file = ... %>`

Include

► E.g,

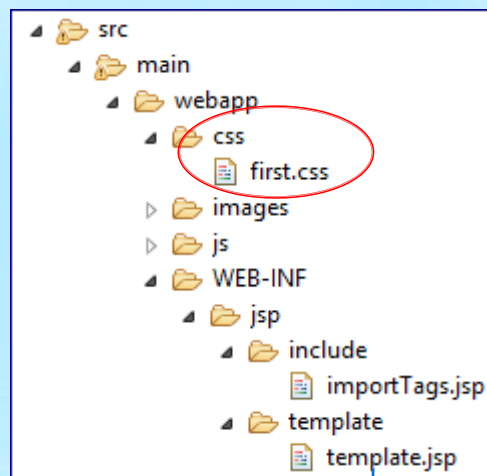
```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>  
<%@ taglib prefix="spring" uri="http://www.springframework.org/tags"%>  
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>  
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
```



```
<%@ include file="../../include/importTags.jsp"%>
```

CSS

- Import CSS files through <link> tag
- E.g,



```
<head>  
<meta http-equiv="Content-Type" content="type=text/html; charset=utf-8">  
<link type="text/css" href="<c:url value=''/css/first.css' />"  
      rel="Stylesheet">
```