BỘ MÔN CNPM - KHOA CNTT - ĐH KHTN J2EE PROGRAMMING TRAINING COURSE 2012 - 2.0.1

MVC 2 & APACHE TILES MASTER PAGE

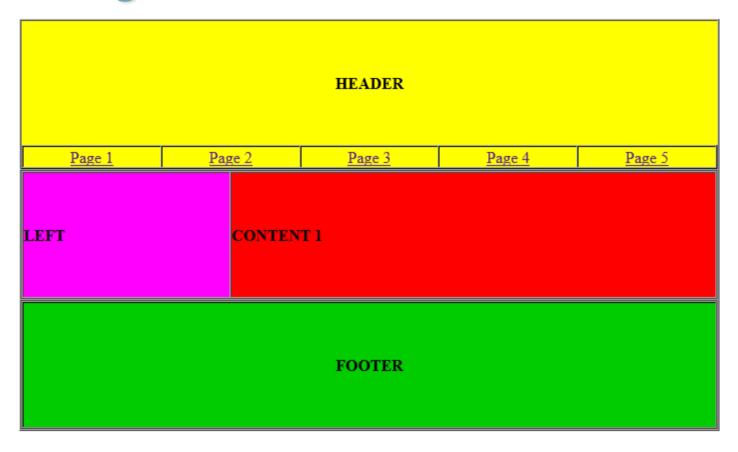
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Tài liệu đọc thêm dành cho sinh viên

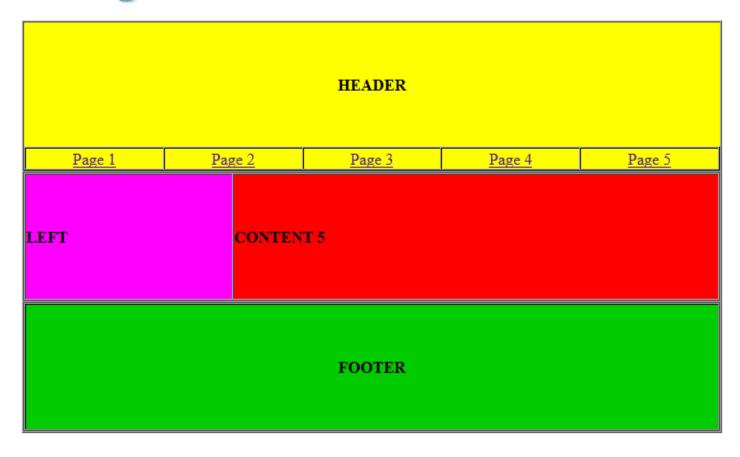
Nội dung trình bày

- Master Page
- Chuẩn bị Apache Tiles
- Tổ chức website cách 1
- Xây dựng Template
- Cấu hình Tiles trong web.xml
- Định nghĩa tiles.xml
- Xây dựng các controller và các view
- Thử nghiệm
- Tổ chức website Cách 2 và điều chỉnh

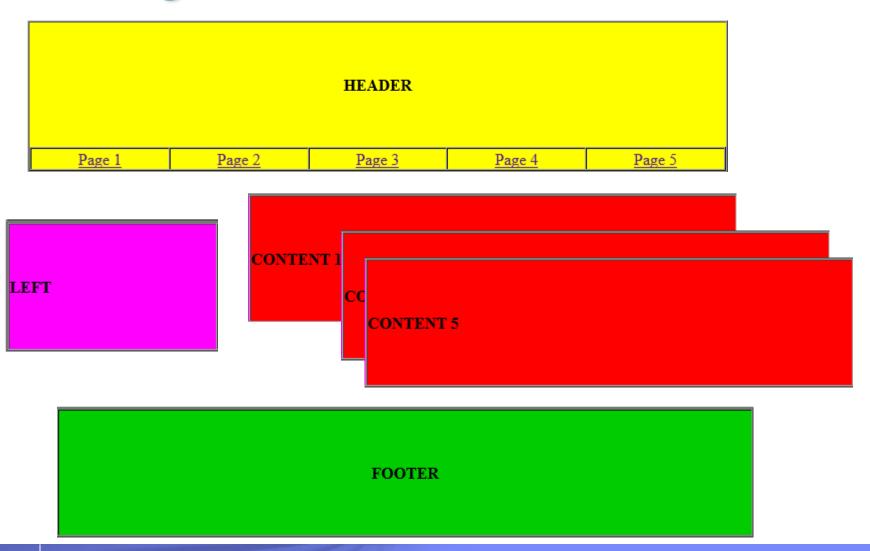
Master Page

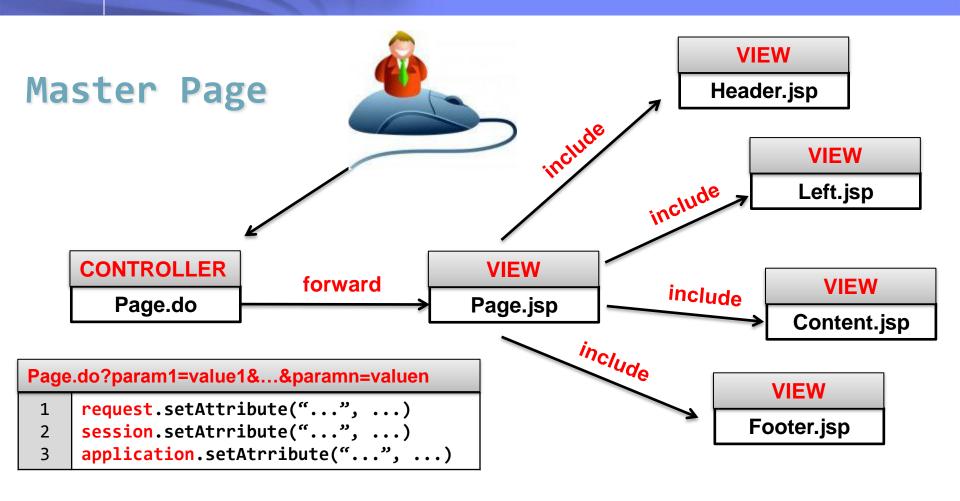


Master Page



Master Page





```
Page.jsp, Header.jsp, Left.jsp, Content.jsp, Footer.jsp

1  ${param.param1}, ..., ${param.paramn}}
2  ${requestScope...}
3  ${sessionScope...}
4  ${applicationScope...}
```

Chuẩn bị Apache Tiles

Download Tiles 2.2.2

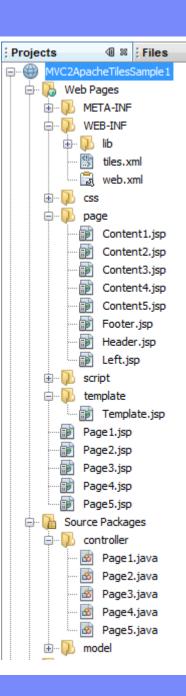
http://www.apache.org/dyn/closer.cgi/tiles/v2.
2.2/tiles-2.2.2-bin.zip

Chuẩn bị Apache Tiles

- Chép các thư viện sau vào thư mục WEB-INF/lib
 - commons-beanutils-1.8.0.jar
 - commons-digester-2.0.jar
 - jcl-over-slf4j-1.5.8.jar
 - slf4j-api-1.5.8.jar, slf4j-jdk14-1.5.8.jar
 - tiles-api-2.2.2.jar, tiles-compat-2.2.2.jar
 - tiles-core-2.2.2.jar, tiles-jsp-2.2.2.jar
 - tiles-servlet-2.2.2.jar, tiles-template-2.2.2.jar
 - tiles-servlet-wildcard-2.2.2.jar
- Project > Libraries > Add JAR/Folder > WEB-INF/lib

Tổ chức website - Cách 1

- Web Pages
 - page
 - Header.jsp, Left.jsp, Footer.jsp
 - Content1.jsp,..., Content5.jsp
 - -template
 - Template.jsp
 - -Page1.jsp, ..., Page5.jsp
- Source Packages
 - -Controller
 - Page1.do, . . ., Page5.do



Template.jsp

```
1
     <%@taglib prefix="tiles" uri="http://tiles.apache.org/tags-tiles"%>
2
     <html>
         <head>
4
           <title>
5
              <tiles:insertAttribute name="title"/>
6
           </title>
         </head>
8
         <body>
           <tiles:insertAttribute name="header"/>
10
11
12
           <tiles:insertAttribute name="left"/>
13
           <tiles:insertAttribute name="content"/>
14
15
           <tiles:insertAttribute name="footer"/>
16
17
18
         </body>
       </html>
19
```

Cấu hình Tiles trong web.xml

```
1
    <web-app>
2
3
      <context-param>
4
        <param-name>
          org.apache.tiles.definition.
6
                  DefinitionsFactory.DEFINITIONS_CONFIG
        </param-name>
8
        <param-value>/WEB-INF/tiles.xml</param-value>
9
      </context-param>
10
      <listener>
11
        <listener-class>
          org.apache.tiles.web.startup.TilesListener
12
13
        </listener-class>
14
      </listener>
15
    </web-app>
```

Định nghĩa tiles.xml trong WEB-INF

```
1
    <tiles-definitions>
      <definition name="Page" template="/template/Template.jsp">
        <put-attribute name="title" value="Page" />
4
        <put-attribute name="header" value="/page/Header.jsp" />
        <put-attribute name="left" value="/page/Left.jsp" />
6
        <put-attribute name="footer" value="/page/Footer.jsp" />
7
      </definition>
      <definition name="Page1" extends="Page">
8
        <put-attribute name="title" value="Page 1" />
        <put-attribute name="content" value="/page/Content1.jsp"/>
10
11
      </definition>
12
13
      <definition name="Page5" extends="Page">
14
        <put-attribute name="title" value="Page 5" />
        <put-attribute name="content" value="/page/Content5.jsp"/>
15
16
      </definition>
    </tiles-definitions>
17
```

Page1.jsp, . . ., Page5.jsp

```
. . .
```

Page1.do, . . ., Page5.do

```
Page1.do

1    String view = "Page1.jsp";
2    RequestDispatcher rd = request.getRequestDispatcher(view);
3    rd.forward(request, response);
```

```
Page2.do

1    String view = "Page2.jsp";
2    RequestDispatcher rd = request.getRequestDispatcher(view);
3    rd.forward(request, response);
```

```
•••
```

```
Page5.do

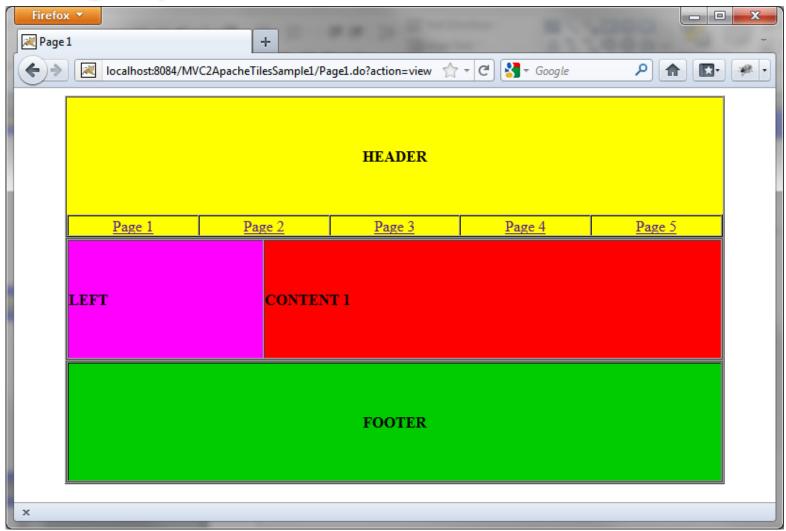
1   String view = "Page5.jsp";
2   RequestDispatcher rd = request.getRequestDispatcher(view);
3   rd.forward(request, response);
```

Cấu hình web.xml

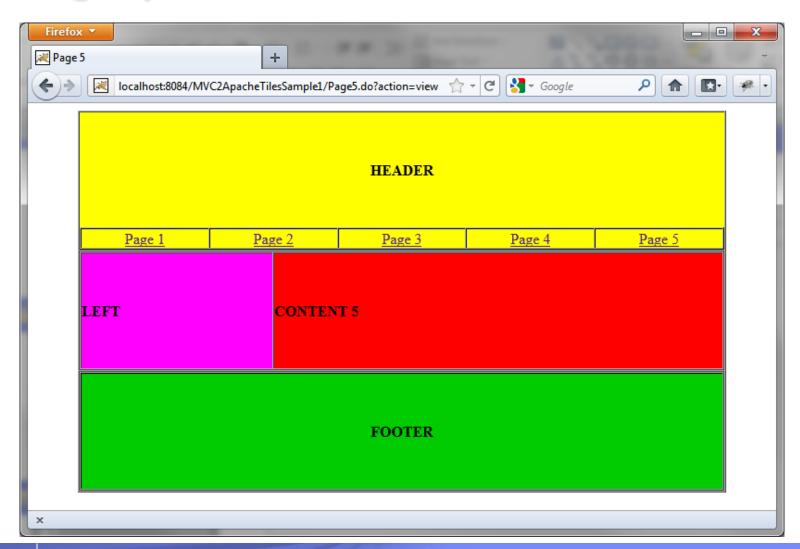
Điều chỉnh các liên kết của các trang

```
<a href="Page1.do?action=view">Page 1</a>
2
    <a href="Page2.do?action=view">Page 2</a>
    <a href="Page3.do?action=view">Page 3</a>
6
8
    <a href="Page4.do?action=view">Page 4</a>
9
10
    <a href="Page5.do?action=view">Pag 5</a>
11
12
```

Thử nghiệm



Thử nghiệm



Demo

MVC2ApacheTilesSample-1

Page1.jsp, . . ., Page5.jsp

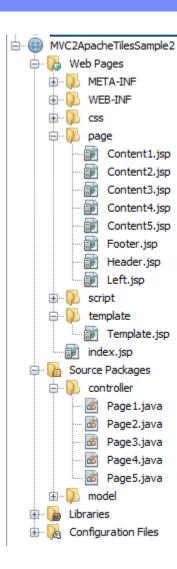
. .

Page1.jsp, . . ., Page5.jsp

- Khó khăn
 - -<tiles:insertDefinition name="Page1"/>
 - **-** . .
 - -<tiles:insertDefinition name="Page5"/>
 - -Chỉ khác nhau name ở mỗi trang
 - -Phải tạo rất nhiều trang
- Cách khắc phục
 - -<tiles:insertDefinition name="\${page}"/>

Tổ chức website - Cách 2

- Web Pages
 - page
 - Header.jsp, Left.jsp, Footer.jsp
 - Content1.jsp,..., Content5.jsp
 - -template
 - Template.jsp
- -index.jsp
- Source Packages
 - -Controller
 - Page1.do, . . ., Page5.do



index.jsp

Page1.do, . . ., Page5.do

```
Page1.do

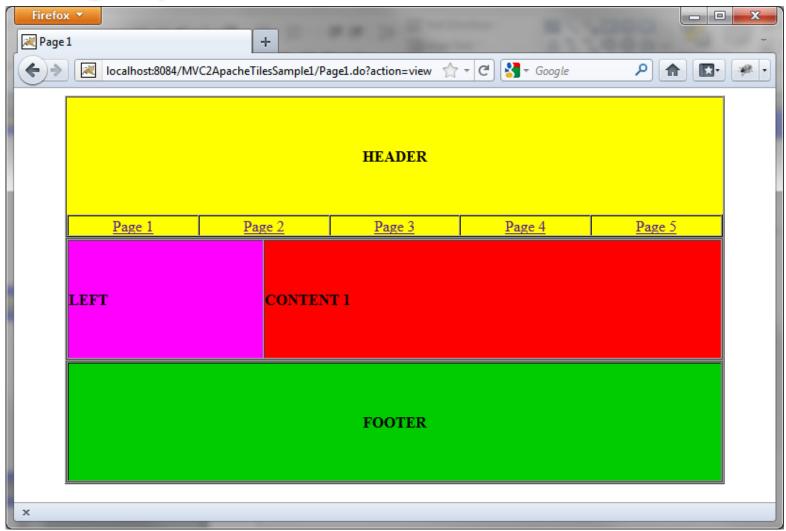
1    String view = "index.jsp";
2    request.setAttribute("page", "Page1");
3    RequestDispatcher rd = request.getRequestDispatcher(view);
4    rd.forward(request, response);
```

```
•••
```

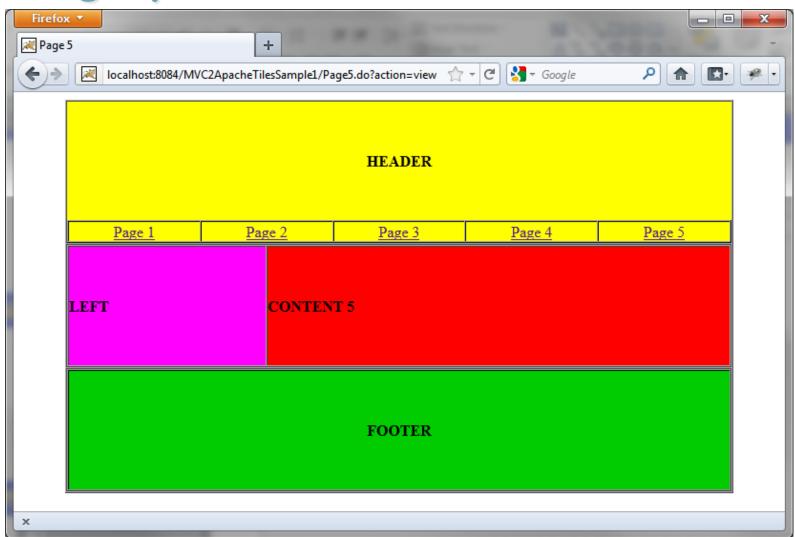
```
Page5.do

1   String view = "index.jsp";
2   request.setAttribute("page", "Page5");
3   RequestDispatcher rd = request.getRequestDispatcher(view);
4   rd.forward(request, response);
```

Thử nghiệm



Thử nghiệm



Demo

MVC2ApacheTilesSample-2

Tài liệu tham khảo

- Nguyễn Hoàng Anh, Tập bài giảng môn chuyên đề Java, 2011
- http://tiles.apache.org/quickstart/index.ht ml



HỞI VÀ ĐÁP