

MODULE 7 TEMPLATE





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Why to Use a Template?

- To display several pages in the same way
- To maintain a standard look and feel in an application with a large number of pages
- To make change once and for all
- To reuse code and avoid recreating similarly constructed pages





How to Use a Template?

- Configuration
 - pom.xml
 - Configuration class
 - tiles.xml
- Create a template page
 - Defining the default page structure
 - Acting as the base for the other pages
- Create client pages
 - Pages built based on the template
 - By inserting specific content into the template





Configuration – pom.xml

Add a dependency





Configuration - TilesConfig class

▶ Remove *InternalResourceViewResolver* from Configuration class

```
@Configuration
public class MainConfig extends WebMvcConfigurerAdapter {

          @Bean
          public ViewResolver viewResolver {}
          {
                InternalResourceViewResolver resolver = new InternalResourceViewResolver();
                resolver.setRrefix("/WEB-INF/jsp/");
                resolver.setSuffix(" jsp");
                return resolver;
           }
}
```





Configuration - TilesConfig class

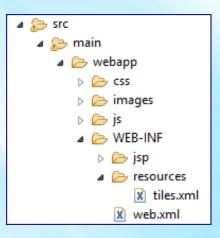
Use TilesViewResolver

```
@Configuration
public class TilesConfig {
          @Bean
          public TilesConfigurer tilesConfirgurer()
                    final TilesConfigurer configurer = new TilesConfigurer();
                    configurer.setDefinitions(new String[] {"WEB-INF/resources/tiles.xml"});
                    configurer.setCheckRefresh(true);
                    return configurer;
          @Bean
          public ViewResolver tilesViewResolver ()
                    final TilesViewResolver resolver = new TilesViewResolver();
                    resolver.setViewClass(TilesView.class);
                    resolver.setExposeContextBeansAsAttributes(true);
                    return resolver;
```



Configuration – tiles.xml

- ▶ Create *tiles.xml*
 - Definition of the template
 - Prefix of the url of pages to apply template







Configuration – tiles.xml

Location of the template

```
<definition name="template-main" template="/WEB-INF/jsp/template/template.jsp">
<put-attribute name="main-content" value="" />
</definition>
<!-- "ajax:" renders the page as-is, without the template -->
<definition name="ajax:**" template="/WEB-INF/jsp/ajax/{1}.jsp" />
<!-- "tiles:" renders the specified page within the template-main -->
<definition name="integrated:**" extends="template-main">
<put-attribute name="main-content" value="/WEB-INF/jsp/{1}.jsp" />
</definition>
<definition name="error" extends="template-main">
<put-attribute name="main-content" value="/WEB-INF/jsp/error.jsp" />
</definition>
```

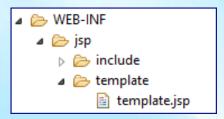
Url of pages must be preceded by "integrated:" in values returned by get/post methods of controllers, In order to apply template





Template Page

Create template.jsp



Import tiles tag library

```
<%@ taglib uri="http://tiles.apache.org/tags-tiles" prefix="(tiles)"%>
```

- Use <tiles:insertAttribute> to define editable area
 - i.e, the area to be replaced by the content of the client page





Adapt Page Url in Controller

- Adapt get/post methods in Controller in order to apply template
 - Prefix url of pages returned by the methods with prefix value specified in the tiles.xml
 - ▶ E.g,

