# Handler Mapping

Define how web request (URL) maps to the Controller handlers.

## **BeanNameUrlHandlerMapping**

Maps the requested URL to the name of the cocntroller.

/welcome.htm is requested, DispatcherServlet will forward the request to the "WelcomeController".

## **ControllerClassNameHandlerMapping**

Uses convention to map the requested URL to Controller.

Now, Spring MVC is mapping the requested URL by following convention:

```
WelcomeController -> /welcome*
```

## SimpleUrlHandlerMapping

Allow developer to specify the mapping of URL patterns and handler mappings explicitly.

```
</property>
</bean>
```

<bean id="welcomeController" class="com.h2k.controller.WelcomeController"/>

Both are defined the same handler mappings.

- 1. /welcome.htm -> welcomeController.
- 2. /{anything}/welcome.htm -> welcomeController.

#### Configure the handler mapping priority

If multiple view handler mappings are applied, you have to declare priority to avoid conflict issue. You can do that with the help of Order property:

```
cproperty name="order" value="0" />
```

## Controller

Controller class to handle the web request.

#### MultiActionController:

- 1. Controller class should extend MultiActionController
- 2. Multiple actions can be configured in same controller.

With ControllerClassNameHandlerMapping configured.

Now, the requested URL will map to the method name in the following patterns :

- 1. CustomerController -> /customer/\*
- 2. /customer/add.htm -> add()
- 3. /customer/delete.htm -> delete()

#### With InternalPathMethodNameResolver

#### MultiActionController Annotation

Now, the URL will map to the method name in the following pattern:

}

Now, the URL will map to the method name in the following patterns :

- 1. /customer/add.htm -> add() method
- 2. /customer/delete.htm -> delete() method

## Properties Method Name Resolver

Now, the URL will map to the method name in the following pattern:

- 1. /customer/a.htm -> add() method
- 2. /customer/b.htm -> update() method
- 3. /customer/whatever.htm -> add() method

## Parameter Method Name Resolver

```
<bean
  class="org.springframework.web.servlet.mvc.support.ControllerClassNameHandlerMapping" />

<bean class="com.h2k.controller.CustomerController">
  <property name="methodNameResolver">
  <bean class="org.springframework.web.servlet.mvc.multiaction.ParameterMethodNameResolver">
  <property name="paramName" value="action"/>
  </bean>
  </property>
  </bean>
```

Now, the URL will map to the method name via the "action" request parameter name:

- 1. /customer/\*.htm?action=add -> add() method
- 2. /customer/whatever.htm?action=add -> add() method
- 3. /customer/\*.htm?action=delete -> delete() method

### Parameterizable View Controller

No controller class is required, just declared the **ParameterizableViewController** bean and specify the view name through the "**viewName**" property. Additionally, you have to define an explicit mapping for it.

```
<bean name="welcomeController"
  class="org.springframework.web.servlet.mvc.ParameterizableViewController">
  cproperty name="viewName" value="WelcomePage" />
  </bean>
```

## ViewResolver

## InternalResourceViewResolver

#### **XmlViewResolver**

In Spring MVC, XmlViewResolver is used to resolve "view name" based on view beans in the XML file. By default, XmlViewResolver will loads the view beans from /WEB-INF/views.xml, however, this location can be overridden through the "location" property:

The "view bean" is just a normal Spring bean declared in the Spring's bean configuration file, where

- 1. "id" is the "view name" to resolve.
- 2. "class" is the type of the view.
- 3. "url" property is the view's url location.

## ResourceBundleViewResolver

In Spring MVC, ResourceBundleViewResolver is used to resolve "view named" based on view beans in ".properties" file.

By default, ResourceBundleViewResolver will loads the view beans from file views.properties, which located at the root of the project class path. However, this location can be overridden through the "basename" property, for example,

Declare each view bean as a normal resource bundle style (key & message), where

```
"WelcomePage" is the view name to match.
```

<sup>&</sup>quot;.(class)" is the type of view.

<sup>&</sup>quot;.url" is the view's URL location.

## File: spring-views.properties

WelcomePage.(class)=org.springframework.web.servlet.view.JstlView WelcomePage.url=/WEB-INF/pages/WelcomePage.jsp

## Note:

Put this "spring-views.properties" file on your project class path.

