**Spring MVC : How To Return Custom 404 Error Pages**

This example provides the steps to write your own 404 Resource Not Found error page for your application. Here I am writing a custom exception for 404 error using the HttpStatus.NOT\_FOUND. This will be annotated as the exception @ExceptionHandler in the controller. Whenever there is any error thrown on this type, it will be redirected to the configured error page. Lets look at the example.

## 1. Spring MVC Controller

**SpringExceptionExample.java**

|  |  |  |
| --- | --- | --- |
| 1 | package javabeat.net.spring.controller; | |
| 2 |  |

|  |  |  |
| --- | --- | --- |
| 3 | import org.springframework.stereotype.Controller; | |
| 4 | import org.springframework.ui.Model; |

|  |  |  |
| --- | --- | --- |
| 5 | import org.springframework.web.bind.annotation.ExceptionHandler; | |
| 6 | import org.springframework.web.bind.annotation.PathVariable; |

|  |  |  |
| --- | --- | --- |
| 7 | import org.springframework.web.bind.annotation.RequestMapping; | |
| 8 | import org.springframework.web.bind.annotation.RequestMethod; |

|  |  |  |
| --- | --- | --- |
| 9 |  | |
| 10 | | @Controller | |

|  |  |
| --- | --- |
| 11 | public class SpringExceptionExample { |
| 12 | @ExceptionHandler(ResourceNotFoundException.class) | |

|  |  |  |
| --- | --- | --- |
| 13 | public String handleResourceNotFoundException() { | |
| 14 | return "notfound"; |

|  |  |  |
| --- | --- | --- |
| 15 | } | |
| 16 |  |

|  |  |
| --- | --- |
| 17 | @RequestMapping(value = "/springexceptiontest/{name}", method = RequestMethod.GET) |
| 18 | public String viewEdit(@PathVariable("name") final String name, Model model) { |

|  |  |  |
| --- | --- | --- |
| 19 | if (name.equals("null")) throw new ResourceNotFoundException(); | |
| 20 | model.addAttribute("msg", name); |

|  |  |  |
| --- | --- | --- |
| 21 | return "hello"; | |
| 22 | } |

|  |  |
| --- | --- |
| 23 | } |

## 2. Custom Exception for 404

**ResourceNotFoundException.java**

|  |  |  |
| --- | --- | --- |
| 1 | package javabeat.net.spring.controller; | |
| 2 |  |

|  |  |
| --- | --- |
| 3 | import org.springframework.http.HttpStatus; |
| 4 | import org.springframework.web.bind.annotation.ResponseStatus; | |

|  |  |
| --- | --- |
| 5 |  |
| 6 | @ResponseStatus(HttpStatus.NOT\_FOUND) | |

|  |  |  |
| --- | --- | --- |
| 7 | public class ResourceNotFoundException extends RuntimeException{ | |
| 8 |  |

|  |  |
| --- | --- |
| 9 | } |

## 3. Views

**hello.jsp**

|  |  |
| --- | --- |
| 1 | <html> |
| 2 | <body> |

|  |  |  |
| --- | --- | --- |
| 3 | <h1>JavaBeat Spring MVC Example</h1> | |
| 4 | <h2>Parameter Value : ${msg}</h2> |

|  |  |
| --- | --- |
| 5 | </body> |
| 6 | </html> |

**notfound.jsp**

[view source](http://www.javabeat.net/spring-mvc-404-error-page/#viewSource)

[print](http://www.javabeat.net/spring-mvc-404-error-page/#printSource)[?](http://www.javabeat.net/spring-mvc-404-error-page/#about)

|  |  |  |
| --- | --- | --- |
| 1 | <%@ page language="java" contentType="text/html; charset=ISO-8859-1" | |
| 2 | pageEncoding="ISO-8859-1"%> |

|  |  |  |
| --- | --- | --- |
| 3 | <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd"> | |
| 4 | <html> |

|  |  |
| --- | --- |
| 5 | <head> |
| 6 | <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1"> | |

|  |  |  |
| --- | --- | --- |
| 7 | <title>404 Not Found</title> | |
| 8 | </head> |

|  |  |  |
| --- | --- | --- |
| 9 | <body> | |
| 10 | | <h2>Your requested page not found!!</h2> | |

|  |  |
| --- | --- |
| 11 | </body> |
| 12 | </html> |

## 4. Spring Configurations

**spring-dispatcher-servlet.xml**

|  |  |
| --- | --- |
| 1 | <?xml version="1.0" encoding="UTF-8"?> |
| 2 | <beans xmlns="http://www.springframework.org/schema/beans" | |

|  |  |
| --- | --- |
| 3 | xmlns:mvc="http://www.springframework.org/schema/mvc" |
| 4 | xmlns:context="http://www.springframework.org/schema/context" | |

|  |  |
| --- | --- |
| 5 | xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" |
| 6 | xsi:schemaLocation="http://www.springframework.org/schema/beans | |

|  |  |  |
| --- | --- | --- |
| 7 | http://www.springframework.org/schema/beans/spring-beans-3.0.xsd | |
| 8 | http://www.springframework.org/schema/mvc |

|  |  |  |  |
| --- | --- | --- | --- |
| 9 | http://www.springframework.org/schema/mvc/spring-mvc.xsd | | |
| 10 | | http://www.springframework.org/schema/context |

|  |  |
| --- | --- |
| 11 | http://www.springframework.org/schema/context/spring-context-3.0.xsd"> |
| 12 | <context:component-scan base-package="javabeat.net.spring.controller" /> | |

|  |  |  |
| --- | --- | --- |
| 13 | | <bean id="jspViewResolver" |
| 14 | class="org.springframework.web.servlet.view.InternalResourceViewResolver"> | | |

|  |  |  |
| --- | --- | --- |
| 15 | <property name="prefix" value="/WEB-INF/jsp/" /> | |
| 16 | <property name="suffix" value=".jsp" /> |

|  |  |  |
| --- | --- | --- |
| 17 | </bean> | |
| 18 | </beans> |

## 5. Deployment Descriptor

**web.xml**

|  |  |
| --- | --- |
| 1 | <?xml version="1.0" encoding="UTF-8"?> |
| 2 | <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" | |

|  |  |
| --- | --- |
| 3 | xmlns="http://java.sun.com/xml/ns/javaee" |
| 4 | xmlns:web="http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd" | |

|  |  |  |
| --- | --- | --- |
| 5 | xsi:schemaLocation="http://java.sun.com/xml/ns/javaee | |
| 6 | http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd" |

|  |  |
| --- | --- |
| 7 | id="WebApp\_ID" version="3.0"> |
| 8 | <display-name>Spring MVC Web Application</display-name> | |

|  |  |  |
| --- | --- | --- |
| 9 | <servlet> | |
| 10 | | <servlet-name>spring-dispatcher</servlet-name> | |

|  |  |
| --- | --- |
| 11 | <servlet-class> |
| 12 | org.springframework.web.servlet.DispatcherServlet | |

|  |  |
| --- | --- |
| 13 | </servlet-class> |
| 14 | <load-on-startup>1</load-on-startup> | |

|  |  |
| --- | --- |
| 15 | </servlet> |
| 16 | <servlet-mapping> | |

|  |  |  |
| --- | --- | --- |
| 17 | <servlet-name>spring-dispatcher</servlet-name> | |
| 18 | <url-pattern>/</url-pattern> |

|  |  |  |
| --- | --- | --- |
| 19 | </servlet-mapping> | |
| 20 | </web-app> |

## 6. Spring MVC 404 Not Found Demo



