08-SpringMVC基于注解使用: 国际化

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1、通过浏览器语言设置国际化化

在日常工作中,如果你的网站需要给不同语言地区的人进行查看,此时就需要使用国际化的基本操作,springmvc的国际化操作比较容易。

login.jsp

```
1 <%@ page contentType="text/html;charset=UTF-8" language="java" %>
2 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>
3 <html>
4 <head>
     <title>Title</title>
6 </head>
7 <body>
8 <h1><fmt:message key="welcomeinfo"/></h1>
  <form action="login" method="post" >
     <fmt:message key="username"/>: <input type="text" name="username"/><br><br>
10
     <fmt:message key="password"/>: <input type="password" name="password"/><br>
11
      <input type="submit" value="<fmt:message key="loginBtn"/>"/>
12
13 </form>
14 </body>
15 </html>
```

I18nController.java

```
package cn.tulingxueyuan.controller;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.RequestMapping;

@Controller
```

```
public class I18nController {

    @RequestMapping("i18n")

    public String i18n(){

    return "login";

}
```

login_en_US.properties

```
welcomeinfo=welcome to tulingxueyuan.cn
username=USERNAME
password=PASSWORD
loginBtn=LOGIN
```

login_zh_CN.properties

```
    welcomeinfo=欢迎进入图灵教育
    username=用户名
    password=密码
    loginBtn=登录
```

springmvc.xml

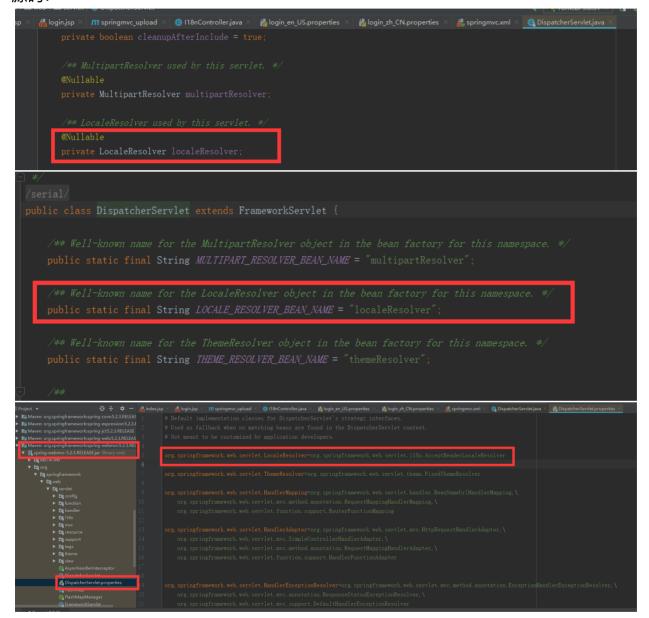
```
<?xml version="1.0" encoding="UTF-8"?>
   <beans xmlns="http://www.springframework.org/schema/beans"</pre>
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xmlns:context="http://www.springframework.org/schema/context"
         xmlns:mvc="http://www.springframework.org/schema/mvc"
6
         xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springfr
      <mvc:default-servlet-handler></mvc:default-servlet-handler>
8
9
      <mvc:annotation-driven></mvc:annotation-driven>
      <context:component-scan base-package="cn.tulingxueyuan"></context:component-scan>
10
      <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
12
          cproperty name="prefix" value="/WEB-INF/page/"></property>
          cproperty name="suffix" value=".jsp"></property>
      </bean>
15
      <bean id="messageSource" class="org.springframework.context.support.ResourceBundleMess</pre>
16
          cproperty name="basename" value="login"></property>
```

```
18 </bean>
19 </beans>
```

其实SpringMVC中国际化的处理非常简单,就是按照浏览器所带来的语言信息决定的。

- 默认情况下, SpringMVC 根据Accept-Language参数判断客户端的本地化类型。
- 当接受到请求时, SpringMVC 会在上下文中查找一个本地化解析器(LocalResolver), 找到后使用它获取请求所对应的本地化类型信息: Locale locale = request.getLocale();//获取浏览器的区域信息

源码:



通过图片能够发现, 默认调用的是

org.springframework.web.servlet.i18n.AcceptHeaderLocaleResolver类

```
## Springmvc_upload 
| OlipstcherServictproperties | AcceptHeaderLocaleResolver.java | AcceptHeaderLocale | Enull | Enull | Enull | AcceptHeaderLocale | Enull |
```

2、通过超链接来切换国际化

• SpringMVC还允许装配--个动态更改本地化类型的拦截器,这样通过指定一个请求参数就可以控制单个请求的本地化类型。

login.jsp

```
1 <%@ page contentType="text/html;charset=UTF-8" language="java" %>
2 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>
3 <html>
4 <head>
     <title>Title</title>
6 </head>
7 <body>
  <h1><fmt:message key="welcomeinfo"/></h1>
  <form action="login" method="post" >
10
     <fmt:message key="username"/>: <input type="text" name="username"/><br>
     <fmt:message key="password"/>: <input type="password" name="password"/><br>
11
     <input type="submit" value="<fmt:message key="loginBtn"/>"/>
12
     <a href="i18n?locale=zh_CN">中文</a><a href="i18n?locale=en_US">English</a>
13
14 </form>
15 </body>
16 </html>
```

MyLocaleResolver.java

```
package cn.tulingxueyuan;

import org.springframework.web.servlet.LocaleResolver;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import javax.util.Locale;
```

```
public class MyLocaleResolver implements LocaleResolver {
      /**
10
       * 解析并返回locale
       * @param request
12
       * @return
13
       */
14
      @Override
15
16
      public Locale resolveLocale(HttpServletRequest request) {
          Locale locale = null;
          String localeStr = request.getParameter("locale");
18
          if(localeStr!=null && ! "".equals(localeStr)){
              locale = new Locale(localeStr.split("_")[0],localeStr.split("_")[1]);
         }else{
              locale = request.getLocale();
22
23
          return locale;
25
26
27
       * 不支持设置locale的信息
2.8
       * @param request
29
       * @param response
30
       * @param locale
       */
      @Override
      public void setLocale(HttpServletRequest request, HttpServletResponse response, Locale)
34
          throw new UnsupportedOperationException(
36
                   "Cannot change HTTP accept header - use a different locale resolution stra
37
38
```

springmvc.xml

```
xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springfr
   <mvc:default-servlet-handler></mvc:default-servlet-handler>
   <mvc:annotation-driven></mvc:annotation-driven>
   <context:component-scan base-package="cn.tulingxueyuan"></context:component-scan>
   <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
      cproperty name="prefix" value="/WEB-INF/page/">
      cproperty name="suffix" value=".jsp"></property>
14
   </bean>
   <bean id="messageSource" class="org.springframework.context.support.ResourceBundleMessage</pre>
      cproperty name="basename" value="login"></property>
   </bean>
18
      <!--配置区域信息解析器-->
19
      <bean id="localeResolver" class="cn.tulingxueyuan.MyLocaleResolver"></bean>
  </beans>
21
```

除了可以自定义区域信息解析器之外,我们还可以使用SpringMVC中自带的SessionLocaleResolver: I18nController.java

```
package cn.tulingxueyuan.controller;
2
   import org.springframework.beans.factory.annotation.Autowired;
   import org.springframework.context.MessageSource;
   import org.springframework.stereotype.Controller;
   import org.springframework.web.bind.annotation.RequestMapping;
   import org.springframework.web.bind.annotation.RequestParam;
   import org.springframework.web.servlet.i18n.SessionLocaleResolver;
   import javax.servlet.http.HttpSession;
   import java.util.Locale;
12
   @Controller
   public class I18nController {
14
      @Autowired
16
      private MessageSource messageSource;
17
18
      @RequestMapping("i18n")
19
      public String i18n(@RequestParam(value = "locale", defaultValue = "zh_CN") String local
21
```

```
Locale 1 = null;

if(localeStr!=null && ! "".equals(localeStr)){

l = new Locale(localeStr.split("_")[0],localeStr.split("_")[1]);

}else{

l = locale;

}

session.setAttribute(SessionLocaleResolver.class.getName() + ".LOCALE",1);

return "login";

}

1 = locale;
```

springmvc.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
         <beans xmlns="http://www.springframework.org/schema/beans"</pre>
                         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                         xmlns:context="http://www.springframework.org/schema/context"
 4
                         xmlns:mvc="http://www.springframework.org/schema/mvc"
 6
                         xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springfr
         <mvc:default-servlet-handler></mvc:default-servlet-handler>
         <mvc:annotation-driven></mvc:annotation-driven>
         <context:component-scan base-package="cn.tulingxueyuan"></context:component-scan>
         <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
                 cproperty name="prefix" value="/WEB-INF/page/"></property>
13
                 cproperty name="suffix" value=".jsp"></property>
14
        </bean>
15
        <bean id="messageSource" class="org.springframework.context.support.ResourceBundleMessage</pre>
                 cproperty name="basename" value="login"></property>
17
        </bean>
18
                <!--配置区域信息解析器-->
19
        <!-- <bean id="localeResolver" class="cn.tulingxueyuan.MyLocaleResolver"></bean>-->
                <bean id="localeResolver" class="org.springframework.web.servlet.i18n.SessionLocaleResolver" class="org.springframework.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.web.servlet.i18n.SessionLocaleResolver.web.servlet.i18n.SessionLocaleResolver.web.servlet.web.servlet.i18n.SessionLocaleResolver.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.servlet.web.se
21
        </beans>
```

使用LocaleChangeInterceptor来实现国际化: springmvc.xml

```
<?xml version="1.0" encoding="UTF-8"?>
   <beans xmlns="http://www.springframework.org/schema/beans"</pre>
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3
         xmlns:context="http://www.springframework.org/schema/context"
4
         xmlns:mvc="http://www.springframework.org/schema/mvc"
7
         xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springfr
   <mvc:default-servlet-handler></mvc:default-servlet-handler>
8
   <mvc:annotation-driven></mvc:annotation-driven>
   <context:component-scan base-package="cn.tulingxueyuan"></context:component-scan>
11
   <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
      cproperty name="prefix" value="/WEB-INF/page/"></property>
      cproperty name="suffix" value=".jsp"></property>
   </bean>
16
   <bean id="messageSource" class="org.springframework.context.support.ResourceBundleMessage</pre>
18
      cproperty name="basename" value="login"></property>
   </bean>
19
   <!--配置区域信息解析器-->
          <bean id="localeResolver" class="cn.tulingxueyuan.MyLocaleResolver"></bean>-->
   <bean id="localeResolver" class="org.springframework.web.servlet.i18n.SessionLocaleResolver"</pre>
      <mvc:interceptors>
          <bean class="org.springframework.web.servlet.i18n.LocaleChangeInterceptor"></bean</pre>
      </mvc:interceptors>
26 </beans>
```

I18nController.java

```
package cn.tulingxueyuan.controller;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.context.MessageSource;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.servlet.i18n.SessionLocaleResolver;

import javax.servlet.http.HttpSession;

import javax.util.Locale;
```

```
12
  @Controller
13
   public class I18nController {
15
16
      @Autowired
      private MessageSource messageSource;
17
18
      @RequestMapping("i18n")
19
20
      public String i18n(@RequestParam(value = "locale", defaultValue = "zh_CN") String local
  //
           Locale 1 = null;
            if(localeStr!=null && ! "".equals(localeStr)){
23 //
                1 = new Locale(localeStr.split("_")[0],localeStr.split("_")[1]);
24 //
25 //
           }else{
                1 = locale;
26 //
27 //
            session.setAttribute(SessionLocaleResolver.class.getName() + ".LOCALE",1);
28 //
          return "login";
29
30
31 }
```

3、国际化类型转换和验证失败的信息

• required: 必要的参数不存在。如 @RequestParam("param1")

标注了一个入参, 但是该参数不存在

• typeMismatch: 在数据绑定时,发生数据类型不匹配的问,如:

```
1 typeMismatch.user.birthday= Date format is erro
```

- methodInvocation: Spring MVC 在调用处理方法时发生了错误
- 验证失败: 如果是JRS303验证的信息: key的前缀为: 注解+对象.属性。如:

```
NotEmpty.user.username=Username must input!
Length.user.username=Username length must 3-12!
Past.user.birthday=birthday must before today!
```

4、国际化代码中的内容

1.第一种方法 在Handler方法参数中加入Locale参数,注入ResourceBundleMessageSource 对象

```
1 messageSource.getMessage(code, args,locale);
```

2.第二种方法 或者使用定义工具类:

```
package com.ns.utils;
2
   import javax.servlet.http.HttpServletRequest;
4
   import org.springframework.beans.factory.annotation.Autowired;
   import org.springframework.context.support.ResourceBundleMessageSource;
8
    /**
9
     * 国际化帮助类
     * @author Administrator
11
     */
12
   public class I18nMessageUtil {
13
14
      private static ResourceBundleMessageSource messageSource;
15
16
      private static HttpServletRequest request;
17
18
      /**
19
      * 获取国际化资源属性
20
       * @param code
21
       * @param args
22
       * @return
23
24
      public static String getMessage(String code, String... args){
25
         return messageSource.getMessage(code, args,request.getLocale());
26
27
      @Autowired
28
      public void setMessageSource(ResourceBundleMessageSource messageSource) {
29
         this.messageSource = messageSource;
      @Autowired
32
33
      public void setRequest(HttpServletRequest request) {
```