```
package com.controller;
import java.util.Locale;
import org.springframework.context.annotation.Bean;
import
org.springframework.context.annotation.Configuration;
import org.springframework.web.servlet.LocaleResolver;
import
org.springframework.web.servlet.config.annotation.Inte
rceptorRegistry;
import
org.springframework.web.servlet.config.annotation.WebM
vcConfigurerAdapter;
import
org.springframework.web.servlet.i18n.LocaleChangeInter
ceptor;
import
org.springframework.web.servlet.i18n.SessionLocaleReso
@Configuration
public class InternationalizationConfig extends
WebMvcConfigurerAdapter {
//Create a SessionLocaleResolver object and set the
default locale to English return the
SessionLocaleResolver object
     @Bean
   public LocaleResolver localeResolver() {
           SessionLocaleResolver slr = new
SessionLocaleResolver();
           slr.setDefaultLocale(Locale.US);
           return slr;
   }
   //Create LocaleChangeInterceptor object and set the
parameter name as language and return the
localeChangeInterceptor
   @Bean
   public LocaleChangeInterceptor
localeChangeInterceptor() {
        LocaleChangeInterceptor
localeChangeInterceptor = new
LocaleChangeInterceptor();
localeChangeInterceptor.setParamName("language");
        return localeChangeInterceptor;
   }
   //register the LocaleChangeInterceptor
   @Override
```

```
public void addInterceptors(InterceptorRegistry
registry) {
registry.addInterceptor(localeChangeInterceptor());
}
#Do not edit the key server.port.Port number can be
changed
#include other needed configurations
server.port=9095
spring.mvc.view.prefix: /WEB-INF/jsp/
spring.mvc.view.suffix: .jsp
package com.controller;
import java.util.ArrayList;
import java.util.List;
import javax.validation.Valid;
import
org.springframework.beans.factory.annotation.Autowired
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.validation.BindingResult;
import
org.springframework.web.bind.annotation.ModelAttribute
import
org.springframework.web.bind.annotation.RequestMapping
org.springframework.web.bind.annotation.RequestMethod;
import com.model.UserClaim;
import com.service.TaxServiceImpl;
@Controller
public class TaxController {
     @Autowired
     private TaxServiceImpl taxService;
     @RequestMapping(value="/getTaxClaimFormPage" ,
method=RequestMethod.GET)
```

```
public String
claimPage(@ModelAttribute("userClaim") UserClaim
userClaim, BindingResult result) {
           return "taxclaim";
     @RequestMapping(value="/calculateTax" ,
method=RequestMethod.GET)
     public String calculateTax(
@ModelAttribute("userClaim") @Valid UserClaim
userClaim, BindingResult result, ModelMap map) {
           if(result.hasErrors()) {
                 return "taxclaim";
           }
           map.put("taxClaimAmount",
taxService.calculateTax(userClaim));
           return "result";
     }
     @ModelAttribute("expenseList")
     public List<String> populateExpense() {
           List<String> list=new ArrayList<>();
           list.add("MedicalExpense");
           list.add("TravelExpense");
           list.add("FoodExpense");
           return list;
     }
}
package com.service;
import org.springframework.stereotype.Service;
import com.model.UserClaim;
@Service
public class TaxServiceImpl implements TaxService{
     @Override
     public double calculateTax(UserClaim userClaim)
{
           double taxamount=0.0;
```

```
if
(userClaim.getExpenseType().equalsIgnoreCase("MedicalE
xpense")) {
                  if (userClaim.getExpenseAmt() < 1000)</pre>
{
                        taxamount=
userClaim.getExpenseAmt()*(0.15);
                  else if (userClaim.getExpenseAmt() >
1000 && userClaim.getExpenseAmt() < 10000) {
                        taxamount=
userClaim.getExpenseAmt()*(0.20);
                  }
                  else {
                        taxamount=
userClaim.getExpenseAmt()*(0.25);
            } else if
(userClaim.getExpenseType().equalsIgnoreCase("TravelEx
pense")) {
                  if (userClaim.getExpenseAmt() < 1000)</pre>
                        taxamount=
userClaim.getExpenseAmt()*(0.10);
                  else if (userClaim.getExpenseAmt() >
1000 && userClaim.getExpenseAmt() < 10000) {
                        taxamount=
userClaim.getExpenseAmt()*(0.15);
                  }
                  else {
                        taxamount=
userClaim.getExpenseAmt()*(0.20);
            } else {
                  if (userClaim.getExpenseAmt() < 1000)</pre>
                        taxamount=
userClaim.getExpenseAmt()*(0.05);
                  else if (userClaim.getExpenseAmt() >
1000 && userClaim.getExpenseAmt() < 10000) {
                        taxamount=
userClaim.getExpenseAmt()*(0.10);
                  }
                  else {
                        taxamount=
userClaim.getExpenseAmt()*(0.15);
                  }
```

```
}
           return taxamount;
}
package com.model;
import javax.validation.constraints.Min;
import javax.validation.constraints.NotEmpty;
import javax.validation.constraints.PositiveOrZero;
import javax.validation.constraints.Size;
import org.hibernate.validator.constraints.Range;
public class UserClaim {
     private String expenseType;
      @PositiveOrZero(message =
"{error.expenseAmount.negative}")
      @Min(value = 0, message =
"{error.expenseAmount.numeric}")
     @Range(min = 1, message ="{error.expenseAmount}"
      private double expenseAmt;
      @NotEmpty(message = "{error.employeeId}")
      @Size(min = 5, message =
"{error.employeeId.size}")
     private String employeeId;
      public String getExpenseType() {
           return expenseType;
      public void setExpenseType(String expenseType) {
           this.expenseType = expenseType;
      public double getExpenseAmt() {
           return expenseAmt;
      public void setExpenseAmt(double expenseAmt) {
           this.expenseAmt = expenseAmt;
      public String getEmployeeId() {
           return employeeId;
      }
      public void setEmployeeId(String employeeId) {
           this.employeeId = employeeId;
```

```
label.employeeId=Employee ID in German
label.expenseType=Expense Type in German
label.expenseAmount=Expense Amount in German
error.employeeId=Employee ID cannot be empty in German
error.expenseAmount=Expense Amount cannot be empty in
German
error.expenseAmount.numeric=Expense amount should be
numeric only in German
error.expenseAmount.negative=Expense amount should not
be a negative number in German
error.employeeId.size=Employee ID should be at least 5
characters in German
label.employeeId=Employee ID in French
label.expenseType=Expense Type in French
label.expenseAmount=Expense Amount in French
error.employeeId=Employee ID cannot be empty in French
error.expenseAmount=Expense Amount cannot be empty in
French
error.expenseAmount.numeric=Expense amount should be
numeric only in French
error.expenseAmount.negative=Expense amount should not
be a negative number in French
error.employeeId.size=Employee ID should be at least 5
characters in French
package com.service;
import org.springframework.stereotype.Service;
import com.model.UserClaim;
@Service
public interface TaxService {
     public double calculateTax(UserClaim userClaim);
```

}

}

```
<%@ page language="java" contentType="text/html;</pre>
charset=ISO-8859-1"
     pageEncoding="ISO-8859-1" isELIgnored="false"%>
<%@ taglib prefix="spring"</pre>
uri="http://www.springframework.org/tags"%>
<%@ taglib prefix="form"</pre>
uri="http://www.springframework.org/tags/form"%>
<%@ taglib
uri="http://www.springframework.org/tags/form"
prefix="form"%>
<%@ taglib prefix="c"
uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
<body style="background-color: lavender">
     <h1 style="text-align: centre">Tax: Tax
Claim</h1>
     <a
href="/getTaxClaimFormPage?language=en">English</a>|<a
href="/getTaxClaimFormPage?language=de">German</a>|<a</pre>
href="/getTaxClaimFormPage?language=fr">French</a>
     <form:form method="GET" action="/calculateTax"</pre>
          modelAttribute="userClaim">
          <spring:message
code="label.employeeId" />
                     <form:input
path="employeeId" id="employeeId" />
                     <form:errors
path="employeeId" />
                <spring:message
code="label.expenseType" />
                     <form:select
path="expenseType"
     items="${expenseList}" id="expenseType" />
```

```
<form:errors
path="expenseType"/>
               <spring:message
code="label.expenseAmount" />
                    <form:input
path="expenseAmt" id="expenseAmt" />
                    <form:errors
path="expenseAmt"/>
               <input type="Submit"
name="submit"
value="calculateTax"/>
          <input type="reset" name="reset"
value="Clear"/>
          </form:form>
</body>
</html>
label.employeeId=Employee ID in English
label.expenseType=Expense Type in English
label.expenseAmount=Expense Amount in English
error.employeeId=Employee ID cannot be empty in
English
error.expenseAmount=Expense Amount cannot be empty in
English
error.expenseAmount.numeric=Expense amount should be
numeric only in English
error.expenseAmount.negative=Expense amount should not
be a negative number in English
error.employeeId.size=Employee ID should be at least 5
characters in English
<%@ page language="java" contentType="text/html;</pre>
charset=ISO-8859-1"
     pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;</pre>
charset=ISO-8859-1">
<title>Tax Claim</title>
```

```
</head>
<body style="background-color: lavender">
     <h1 style="text-align: centre">Tax: Tax
Claim</h1>
     <h2>The tax claim for ${userClaim.expenseType}
with expense amount
           ${userClaim.expenseAmt} is
${taxClaimAmount}</h2>
</body>
</html>
package com;
import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootAppli
cation;
import org.springframework.context.MessageSource;
import org.springframework.context.annotation.Bean;
import
org.springframework.context.annotation.ComponentScan;
import
org.springframework.context.support.ReloadableResource
BundleMessageSource;
import
org.springframework.validation.beanvalidation.LocalVal
idatorFactoryBean;
@SpringBootApplication
@ComponentScan({"com.controller", "com.model", "com.serv
ice"})
public class TmsApplication {
     public static void main(String[] args) {
           SpringApplication.run(TmsApplication.class,
args);
     }
     @Bean
    public MessageSource messageSource() {
        ReloadableResourceBundleMessageSource
messageSource = new
ReloadableResourceBundleMessageSource();
messageSource.setBasename("classpath:messages");
        messageSource.setDefaultEncoding("UTF-8");
```

```
return messageSource;
    }
    @Bean
    public LocalValidatorFactoryBean validator() {
        LocalValidatorFactoryBean bean = new
LocalValidatorFactoryBean();
bean.setValidationMessageSource(messageSource());
        return bean;
    }
}
<%@ page language="java" contentType="text/html;</pre>
charset=ISO-8859-1"
     pageEncoding="ISO-8859-1" isELIgnored="false"%>
<%@ taglib prefix="spring"
uri="http://www.springframework.org/tags"%>
<%@ taglib prefix="form"
uri="http://www.springframework.org/tags/form"%>
<%@ taglib
uri="http://www.springframework.org/tags/form"
prefix="form"%>
<%@ taglib prefix="c"</pre>
uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
<body style="background-color: lavender">
      <h1 style="text-align: centre">Tax: Tax
Claim</h1>
href="/getTaxClaimFormPage?language=en">English</a>|<a</pre>
href="/getTaxClaimFormPage?language=de">German</a>|<a
href="/getTaxClaimFormPage?language=fr">French</a>
      <form:form method="GET" action="/calculateTax"</pre>
           modelAttribute="userClaim">
```

```
<spring:message
code="label.employeeId" />
                <form:input
path="employeeId" id="employeeId" />
               <form:errors
path="employeeId" />
            <spring:message
code="label.expenseType" />
                <form:select
path="expenseType"
    items="${expenseList}" id="expenseType" />
                <form:errors
path="expenseType"/>
           <spring:message
code="label.expenseAmount" />
                <form:input
path="expenseAmt" id="expenseAmount" />
                <form:errors
path="expenseAmt"/>
            <input type="Submit"
name="submit" name="claculateClaim"
value="calculateTax"/>
        <input type="reset" name="reset"
value="Clear"/>
        </form:form>
</body>
</html>
```