Data Binding & Validation

Data Binding

```
@RequestMapping(method = RequestMethod.POST)
public String save(Country country, BindingResult result) {
   if(result.hasErrors())
      return "countryForm";
   service.addCountry(country);
   return "redirect:/country.htm";
}
```

Data Binding

- Spring will
 - create object
 - call setter for each parameter
 - pass the object to the method

created from request parameters

```
@RequestMapping(method = RequestMethod.POST)
public String save(Country country, BindingResult result) {
   if(result.hasErrors())
      return "countryForm";
   service.addCountry(country);
   return "redirect:/country.htm";
}
```



JavaBean

```
public class Country {
   private String name;
                               public no-arg constructor
   public Country()
   public String getName()
                                    getter and setter
        return name;
                                   define a property
    public void setName(String name) {
       this.name = name;
```

Binding your form

```
<form:form method="POST" action="${pageContext.request.contextPath}/country.htm"
                                            modelAttribute="country">
   <form:hidden path="id" />
   <label for="name" class="control-label">Name (required):</label>
       <form:input id="name" path="name"/>
       <form:errors path="name" cssClass="error"/>
   <label for="numberInhabitants" class="control-label">
          Number of inhabitants:
       <form:input id=" numberInhabitants " path="numberInhabitants"/>
       <form:errors path="numberInhabitants" cssClass="error"/>
   >
       <input id="save" type="submit" class="btn btn-default">Save</input>
   </form:form>
```

BindingResult

- BindingResult will
 - hold the result of the validation, binding and contain errors that may have occurred
 - must be defined right after the model object

```
@RequestMapping(method = RequestMethod.POST)
public String save(Country country, BindingResult result) {
}
```

Can be used to retrieve error messages

Handling Errors

```
@RequestMapping(method = RequestMethod.POST)
public String save(Country country, BindingResult result) {
    if(result.hasErrors())
        return "countryForm";
    service.addCountry(country);
    return "redirect:/country.htm";
}
```

WHAT ABOUT PROPER ERROR MESSAGES?

Name (required):	
Property nar	ne threw exception; nested exception is
org.ucll.dem	o.domain.DomainException: Name should not be empty.
Number of i	nhabitants:
Failed to cor	vert property value of type java.lang.String to required type int for
property nur	nberInhabitants; nested exception is java.lang.NumberFormatException
or input str	ing: ""

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