

# Spring MVC Form Validation





# The Need for Validation



# The Need for Validation

Check the user input form for

required fields

valid numbers in a range

valid format (postal code)

custom business rule



# Java's Standard Bean Validation API



# Java's Standard Bean Validation API

- Java has a standard Bean Validation API



# Java's Standard Bean Validation API

- Java has a standard Bean Validation API
- Defines a metadata model and API for entity validation



# Java's Standard Bean Validation API

- Java has a standard Bean Validation API
- Defines a metadata model and API for entity validation
- Not tied to either the web tier or the persistence tier



# Java's Standard Bean Validation API

- Java has a standard Bean Validation API
- Defines a metadata model and API for entity validation
- Not tied to either the web tier or the persistence tier
- Available for server-side apps and also client-side JavaFX/Swing apps



# Java's Standard Bean Validation API

- Java has a standard Bean Validation API
- Defines a metadata model and API for entity validation
- Not tied to either the web tier or the persistence tier
- Available for server-side apps and also client-side JavaFX/Swing apps

<http://www.beanvalidation.org>



# Spring and Validation



# Spring and Validation

- Spring version 4 and higher supports Bean Validation API



# Spring and Validation

- Spring version 4 and higher supports Bean Validation API
- Preferred method for validation when building Spring apps



# Spring and Validation

- Spring version 4 and higher supports Bean Validation API
- Preferred method for validation when building Spring apps
- Simply add Validation JARs to our project



# Bean Validation Features

Validation Feature
<b>required</b>
<b>validate length</b>
<b>validate numbers</b>
<b>validate with regular expressions</b>
<b>custom validation</b>



# Validation Annotations

Annotation	Description
<b>@NotNull</b>	Checks that the annotated value is not null
<b>@Min</b>	Must be a number $\geq$ value
<b>@Max</b>	Must be a number $\leq$ value
<b>@Size</b>	Size must match the given size
<b>@Pattern</b>	Must match a regular expression pattern
<b>@Future / @Past</b>	Date must be in future or past of given date
<b><i>others ...</i></b>	



# Our Road Map



# Our Road Map

1. set up our development environment



# Our Road Map

1. set up our development environment
2. required field



# Our Road Map

1. set up our development environment
2. required field
3. validate number range: min, max



# Our Road Map

1. set up our development environment
2. required field
3. validate number range: min, max
4. validate using regular expression (regexp)



# Our Road Map

1. set up our development environment
2. required field
3. validate number range: min, max
4. validate using regular expression (regexp)
5. custom validation