



Kn47 - Primer on JEE 6 Validations

Added by [SARAVANAN M.](#), last edited by [NARESH KUMAR H.](#) on Feb 05, 2013

Author	Saravanan M
Reviewer	Hassan Basha R
Start Date	30-Aug-2012
Version	v1.0
Audience	Fresher - 3 yrs exp

- [Learning Outcome](#)
- [Course Objectives](#)
- [1.0 Introduction](#)
 - [1.1 With Custom Bean Validation](#)
 - [1.2 With Java Bean Validation](#)
- [2.0 Bean Validation](#)
 - [2.1 Implementation Steps](#)
 - [2.1.1 Defining the Constraints\(Built-In\)](#)
 - [2.1.2 Validating the Constraints](#)
 - [2.1.3 Custom Constraints](#)
- [3.0 Hibernate Validator](#)
- [References](#)

Learning Outcome

- Upon completion of the course, a learner will be able to apply the standartized validation process using both built-in and custom made constraints.

Course Objectives

- Introduction to java bean validation and its advantages
- Constraint Definition
- Introduction on Built-in and Custom Error message
- Introduction on Custom Constraint
- Introduction on xml based constraint declaration
- How to validate the constraints?
- Rules to be considerd while applying validation

1.0 Introduction

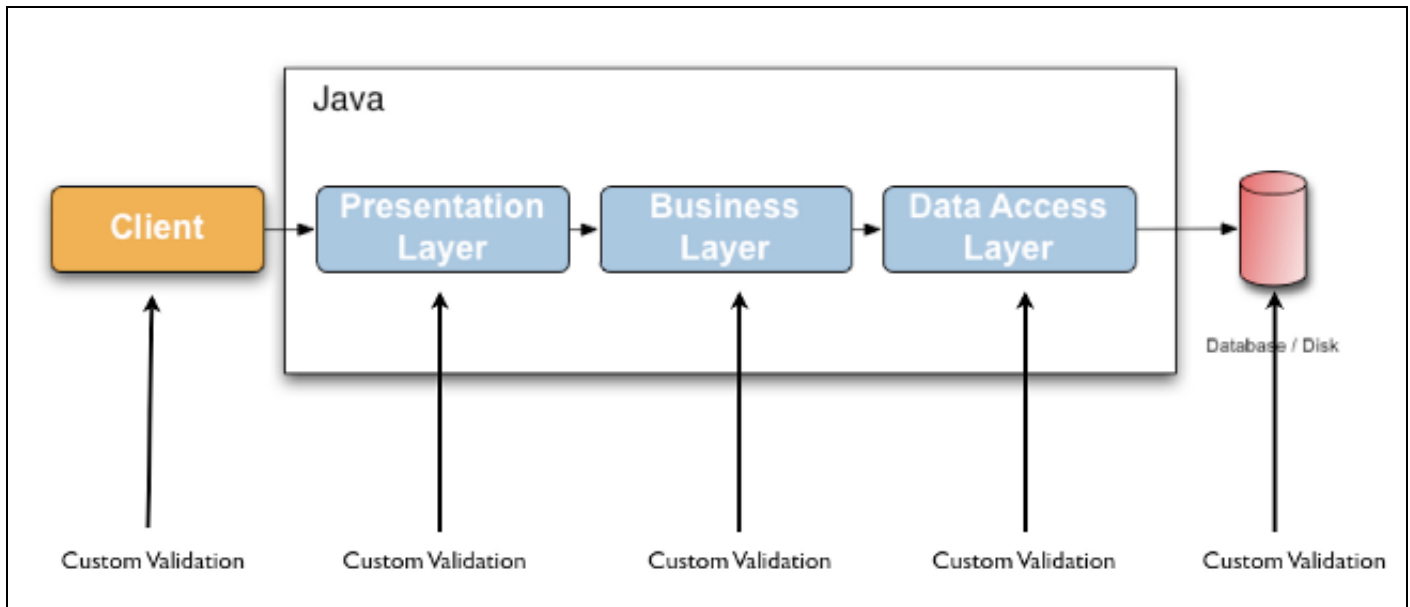
Validating data is a common and important task of any application and it can take place at different layers of the project.It leads the same validation logic is written in more than one layers(presentation,business,persistence...) of an application which is something time consuming ,error prone

,duplicating same code at different places and also cluttering it with business process.

To avoid the above problems , JEE6 introduces a bean validation(java bean validation) which offers a standard framework for validation, in which the same set of validations can be shared by all the layers of an application. This feature has been included in the JSR-303 (Java Specification Request).

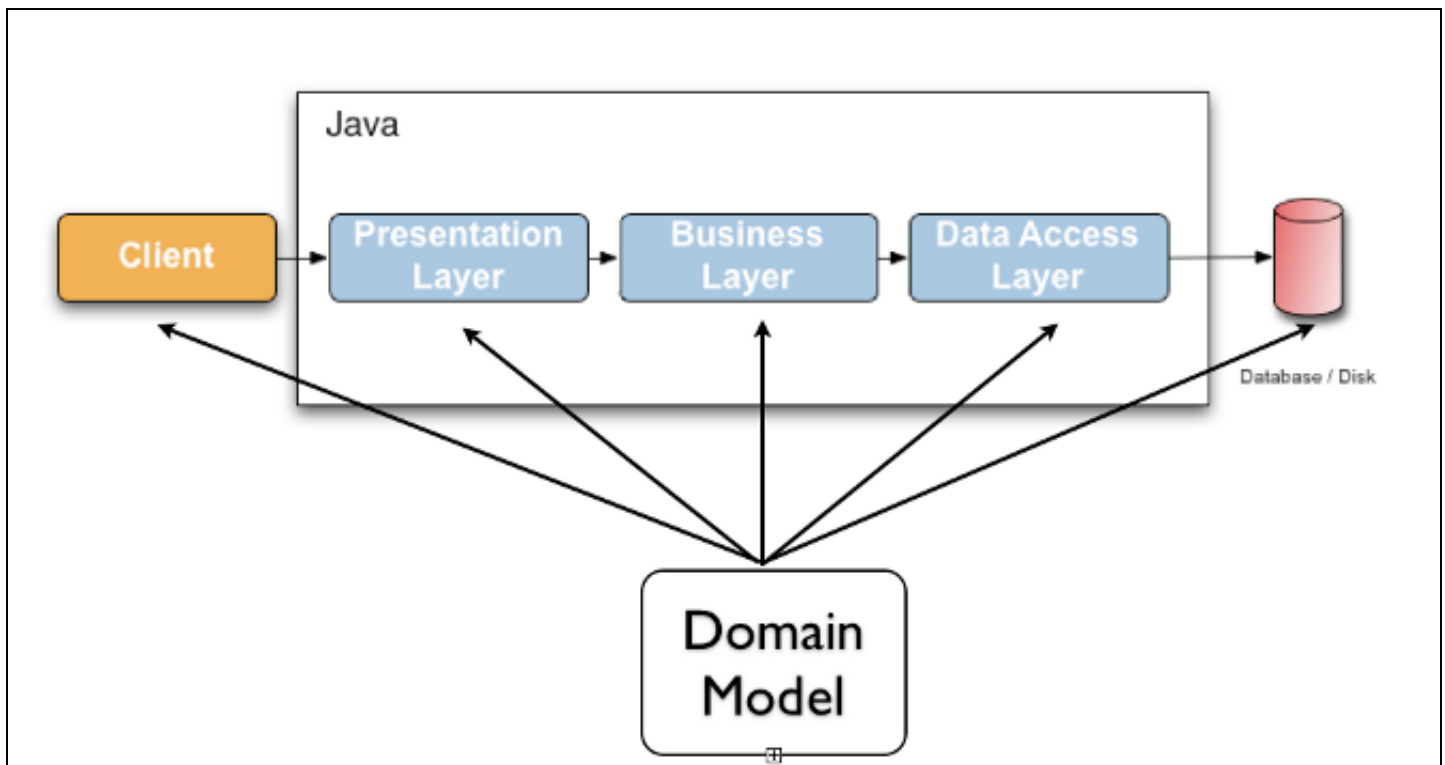
1.1 With Custom Bean Validation

With custom bean validation model the validation can take place at different layers.



1.2 With Java Bean Validation

Validation implementations are available at single place and can be reachable by all layers of the system.



2.0 Bean Validation

This is a new validation model available as part of Java EE 6 platform and makes validation simpler and reduces the duplication, errors and cluttering the validation logic in several layers. Specifically, Bean Validation offers a framework for validating Java classes written according to JavaBeans conventions. It allows to use annotations to specify constraints on a JavaBean — you can annotate a JavaBean class, field, or property. We can also extend or override these constraints through XML descriptors.

Bean Validation includes a number of built-in constraint definitions. We can add our own constraints by declaring an annotation type that specifies a validator class. The below link says about both Built-in and Custom constraints in detail.

2.1 Implementation Steps

2.1.1 Defining the Constraints(Built-In)

Constraint is something that acts as a restraint which keeps things within a specified boundaries. In java bean validation the constraints can be expressed through java annotations Or XML. [more details..](#)

2.1.2 Validating the Constraints

Constraints defined on java bean can be validated , obeyed or violated , through Validation APIs. Validation APIs provides ways to programmatically validate a java bean. [more details..](#)

2.1.3 Custom Constraints

Built in constraints are not enough all times to meet the requirements. To meet this shortfall , bean validation allows the creation of our own constraints based on our requirement. [more details..](#)

3.0 Hibernate Validator

Hibernate Validator 4.x is the reference implementation for JSR 303 - Bean Validation and it includes

- ¿ Defining validation data using annotation and/or XML.
- ¿ Full object validation (including inner objects using recursion)
- ¿ Create customized constraints and validators.
- ¿ Customized error messages.

References

1. <http://beanvalidation.org/1.0/spec/#introduction>
2. <http://docs.oracle.com/javaee/6/tutorial/doc/gircz.html>
3. <http://docs.jboss.org/hibernate/validator/4.0.1/reference/en/html/validator-usingvalidator.html>

Page viewed 59 times by 34 users since Feb 05, 2013

Child Pages (4)

[Constraint](#)
[Custom Constraint](#)
[Defining the Constraints](#)
[Validating Constraints](#)

Printed by Atlassian Confluence 3.4.9, the Enterprise Wiki.