

# Validation in Spring Boot with Hibernate Validator

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#### Java Bean Validation Basics

- We validate a Java bean with the standard framework JSR 380, also known as Bean Validation 2.0.
- Validating user input is a super common requirement in most applications. And the Java Bean Validation framework has become the de facto standard for handling this kind of logic.
- JSR 380 is a specification of the Java API for bean validation and this ensures that the properties of a bean meet specific criteria, using annotations such as @NotNull, @Min, and @Max.
- Hibernate Validator is the reference implementation of the validation API.

### Important Bean Validation annotations

- @NotNull validates that the annotated property value is not null.
- **@Size** validates that the annotated property value has a size between the attributes min and max; can be applied to String, Collection, Map, and array properties.
- @Min validates that the annotated property has a value no smaller than the value attribute.
- @Max validates that the annotated property has a value no larger than the value attribute.
- @Email validates that the annotated property is a valid email address.
- @NotEmpty validates that the property is not null or empty; can be applied to String,
   Collection, Map or Array values.
- @NotBlank can be applied only to text values and validates that the property is not null or whitespace.

# Validation in Spring Boot

- Spring boot provides good integration support with Hibernate validator
- We will use Hibernate Validator, which is one of the reference implementations of the bean validation API
- Starting with Boot 2.3, we need to explicitly add the spring-bootstarter-validation dependency:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-validation</artifactId>
  </dependency>
```

# **Development Process**

1. Add maven dependency:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-validation</artifactId>
</dependency>
```

- Apply validation annotations to a PostDto bean. For example, @NotNull, @NotBlank, and @Size annotations etc.
- 3. Enable validation on Spring Rest Controller by adding **@Valid** annotation in addition to **@RequestBody**
- 4. To customize response validation we need to extend

  ResponseEntityExceptionHandler class and override

  handleMethodArgumentNotValid(MethodArgumentNotValidException ex,

  HttpHeaders headers, HttpStatus status, WebRequest request) method.