Data Validation with JSR-303

- Introduced Java Bean Validation
- Part of JEE 6 and above, suported by Spring since version 3
- Set of annotations used to validate Java Bean properties

JSR 380 - Bean Validation 2.0

- Added to Spring Framework 5.0
- Available in Spring Boot 2.0.0+
- Uses Hibnernate Validatior 6.0+
- Primary goal of Bean Validation 2.0 is Java 8 language features
- Added 11 new built in validation annotations

Built in Contstraint Definitions

- @Null - Checks value is null
- @NotNull - Checks value is not null
- @AssertTrue - Value is true
- @AssertFalse - What do you think?
- @Min - Number is equal to or higher
- @Max - Number is equal to or less
- @DecimalMin - Value is larger
- @DecimalMax - Value is less than
- @Negative - Value is less than zero. Zero invalid
- @NegativeOrZero - Value is less than or zero.
- @Positive
- @PositiveOrZero
- @Size - Checks if string or collection is between a min and max
- @Digits - checks for integer digits and fraction digits
- @Past - Checks if a date is in the past
- @PastOrPresent
- @Future
- @FutureOrPresent
- @Pattern - Checks against RegEx pattern
- @NotEmpty - Checks if value is null or empty (whitespace or empty collection)
- @NonBlank - Checks string is not null or not whitespace characters

- @Email - Checks if string value is an email address

Hibernate Validator Constraints

- @ScriptAssert - Class level annotation, checks class against script
- @CreditCardNumber - Verifies value is a credit card number
- @Currency - Valid currency ammount
- @DurationMax - Duration less than given value
- @DurationMin - Duration more than given value
- @EAN - Valid EAN barcode
- @ISBN - Valid ISBN value
- @Length - String length between given min and max
- @CodePointLength - Validates that code point length of the annotated character sequence is between min and max
- @LuhnCheck - Luhn check sum
- @Mod10Check - Mod 10 check sum
- @Mod11Check - Mod 11 check sum
- @Range - Checks if a number is between min and max (exlusive)
- @Safehtml - Checks for safe HTML
- @UniqueElements - Checks if collection has unqiue elements
- @Url - Checks for valid URL

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