

# 1. Goal

Understand the basics of bean validation as how validation is done in the API with Spring.

## 2. Lesson Notes

### How and Where to Trigger Validation

The standard way is to use the standard `@Valid` annotation.

Alternatively we can use the Spring specific `@Validated` annotation - which is similar but supports some additional advanced options (such as validation groups).

The best place to trigger the validation process is early on in the lifecycle of the request - in the Controller layer of the API.

### Bean Validation Examples

- String field - *name*:

```
@NotNull
@Size(min=2, max=30)
private String name;
```

- int field - *age*:

```
@Min(18)
@Min(0)
private int age;
```

## Non-Standard Bean Validation (Hibernate specific)

- an *email* field:

```
@Email
@NotEmpty
@Length(max = 140)
```

## Work with the validation API directly

```
@Bean
public javax.validation.Validator localValidatorFactoryBean() {
    return new LocalValidatorFactoryBean();
}
```

We can then simply inject the bean in any other bean in the context:

```
@Autowired
private Validator validator;
```

# Handling Error in Spring

```
@ExceptionHandler(value = { ConstraintViolationException.class })
```

## 3. Resources

- JSR 303: Bean Validation
- JSR 349: Bean Validation 1.1
- Getting started with Hibernate Validator