


DZone > Java Zone > Creating Own Email List Validator

Creating Own Email List Validator

A quick code snippet to teach you how to create an email list validator, for when `javax.validation` just isn't enough.



by Tomasz J-ski · Sep. 07, 16 · Java Zone · Code Snippet

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Validating data is a must in the web development world. In most cases, *javax.validation* does the job out of the box. Just add some sort of annotations and that's all. But there are some cases where there is a need to create your own validator. Below, you can find an example of how to do that.

The Goal

Validate a list of emails by using `List<String>` email with `javax.validation` and the Java 8 stream API.

Interface

```
1 import javax.validation.Constraint;
2 import javax.validation.Payload;
3 import java.lang.annotation.Documented;
4 import java.lang.annotation.ElementType;
5 import java.lang.annotation.Retention;
6 import java.lang.annotation.RetentionPolicy;
7 import java.lang.annotation.Target;
8 @Constraint(validatedBy = {EmailListValidator.class})
9 @Target({ElementType.FIELD, ElementType.PARAMETER})
10 @Retention(value = RetentionPolicy.RUNTIME)
11 @Documented
12 public @interface EmailList {
13     String message() default "Invalid Email Address";
14     Class<?>[] groups() default {};
15     Class<? extends Payload>[] payload() default {};
16 }
```

Validator Class With Regex Validation

```
1 import com.amazonaws.util.StringUtils;
2 import javax.validation.ConstraintValidator;
3 import javax.validation.ConstraintValidatorContext;
4 import java.util.List;
5 import java.util.regex.Pattern;
6 /**
7  * Created by tj on 16.08.16.
8  * Email List validator
9  */
10 public class EmailListValidator implements ConstraintValidator<EmailList, List<String> {
11     final private Pattern emailPattern = Pattern.compile("^([a-zA-Z0-9.!#$%&'*/+=?^_
12     @Override
13     public void initialize(final EmailList constraintAnnotation) {
```

```

14     //for interface
15 }
16 @Override
17 public boolean isValid(final List<String> value, final ConstraintValidatorConte
18     return !(value == null || value.isEmpty()) && value.stream().filter(e -> !S
19 }
20 }

```

Test

```

1 /**
2  * Created by tj on 16.08.16.
3  * Email validator tests
4  */
5 public class EmailListValidatorTest {
6     private static ValidatorFactory validatorFactory;
7     private static Validator validator;
8     @BeforeClass
9     public static void setup(){
10         validatorFactory = Validation.buildDefaultValidatorFactory();
11         validator = validatorFactory.getValidator();
12     }
13     @Test
14     public void validatorSingleCorrectEmailTest(){
15         final TestEntity emails = new TestEntity(Collections.singletonList("tjancz@
16         final Set<ConstraintViolation<TestEntity>> violations = validator.validate(
17         Assertions.assertThat(violations).hasSize(0);
18     }
19     private static class TestEntity {
20         @EmailList
21         private final List<String> emails;
22         public TestEntity(final List<String> emails) {
23             this.emails = emails;
24         }
25     }

```

```
26 }
```

Usage

```
1 public class SomeDTO {  
2 @EmailList  
3 private final List<String> emails;  
4 // other content here  
5 }
```

With these simple classes, you can validate a whole lists of elements.

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