

# Archibald Witwicky

博客园

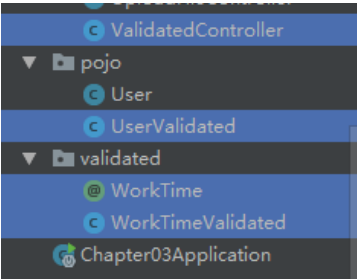
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管理

## SpringBoot2 @validated 自定义效验类型

项目参考：详细参见：《Spring Boot 2精髓：从构建小系统到架构分布式大系统》 第三章 3.5.3 节 自定义校验

### 项目结构



### WorkTime

```
1 package com.archibladwitwicke.springboot2.chapter03.validated;
2
3 import javax.validation.Constraint;
4 import javax.validation.Payload;
5 import java.lang.annotation.*;
6
7 @Constraint(validatedBy = { WorkTimeValidated.class })
8 @Documented
9 @Retention (RetentionPolicy.RUNTIME)
10 @Target ({ElementType.ANNOTATION_TYPE, ElementType.METHOD, ElementType.FIELD})
11 public @interface WorkTime {
12     String message() default "工作时间不能超过8小时! ";
13
14     int max() default 8;
15
16     Class<?>[] groups() default {};
17
18     Class<? extends Payload>[] payload() default {};
19 }
```

### WorkTimeValidated

```
1 package com.archibladwitwicke.springboot2.chapter03.validated;
```

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```

    ort javax.validation.ConstraintValidator;
    ort javax.validation.ConstraintValidatorContext;

    lic class WorkTimeValidated implements ConstraintValidator<WorkTime, Integer> {

        private int max;

        @Override
        public void initialize(WorkTime work) {
            max = work.max();
        }

        @Override
        public boolean isValid(Integer value, ConstraintValidatorContext constraintValidatorContext) {
            Boolean flag = false;

            if (value == null || value < max) {
                flag = true;
            }

            return flag;
        }
    }

```

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## UserValidated

```

1  package com.archibladwitwicke.springboot2.chapter03.pojo;
2
3  import com.archibladwitwicke.springboot2.chapter03.validated.WorkTime;
4
5  import javax.validation.constraints.Max;
6  import javax.validation.constraints.NotNull;
7  import javax.validation.constraints.Null;
8
9  public class UserValidated {
10
11      public interface Add {
12      }
13
14      public interface Update {
15      }
16
17      @NotNull(groups = Update.class)
18      @Null(groups = Add.class)
19      private Long id;
20
21      @NotNull(message = "名字不能为空! ")
22      private String name;
23
24      @NotNull(message = "年龄不能为空! ")
25      @Max(value = 100, message = "年龄不能大于100岁! ")
26      private String age;
27
28      @NotNull
29      @WorkTime(max = 5, message = "工作时间不能超过5小时! ")

```

```
30     private Integer worktime;
31
32     public Long getId() {
33         return id;
34     }
35
36     public void setId(Long id) {
37         this.id = id;
38     }
39
40     public String getName() {
41         return name;
42     }
43
44     public void setName(String name) {
45         this.name = name;
46     }
47
48     public String getAge() {
49         return age;
50     }
51
52     public void setAge(String age) {
53         this.age = age;
54     }
55
56     public Integer getWorktime() {
57         return worktime;
58     }
59
60     public void setWorktime(Integer worktime) {
61         this.worktime = worktime;
62     }
63 }
```

## ValidateController

```
1  package com.archibladwitwicke.springboot2.chapter03.controller;
2
3  import com.archibladwitwicke.springboot2.chapter03.pojo.UserValidated;
4  import org.springframework.stereotype.Controller;
5  import org.springframework.validation.BindingResult;
6  import org.springframework.validation.ObjectError;
7  import org.springframework.validation.annotation.Validated;
8  import org.springframework.web.bind.annotation.RequestMapping;
9  import org.springframework.web.bind.annotation.ResponseBody;
10
11 import java.util.List;
12
13 @Controller
14 @RequestMapping("/validated")
15 public class ValidatedController {
16
17     @RequestMapping("/validateuser")
18     @ResponseBody
19     public String validateUser(@Validated UserValidated userValidated, BindingResult bindi
```

```
20         String result = null;
21
22         if (bindingResult.getErrorCount() == 0) {
23             result = "通过验证! ";
24         }
25
26         List<ObjectError> allErrors = bindingResult.getAllErrors();
27         for (ObjectError error : allErrors) {
28             String defaultMessage = error.getDefaultMessage();
29             System.out.println(defaultMessage);
30         }
31
32         return result;
33     }
34
35
36     @RequestMapping("/validateusergroup")
37     @ResponseBody
38     public String validateUserByGroup(@Validated UserValidated userValidated, BindingResult bindingResult) {
39         String result = null;
40
41         if (bindingResult.getErrorCount() == 0) {
42             result = "通过验证! ";
43         }
44
45         List<ObjectError> allErrors = bindingResult.getAllErrors();
46         for (ObjectError error : allErrors) {
47             String defaultMessage = error.getDefaultMessage();
48             System.out.println(defaultMessage);
49         }
50
51         return result;
52     }
53 }
```

分类: 微服务



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