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封装

第一步：初始化项目

第二步：修改项目的pom文件

第三步：拷贝之前config包下的所有类到此子工程中

使用

第一步：导入tools-validator的依赖

第二步：拷贝之前的entity包和controller包到此项目中

第三步：在启动类上添加对应的注解

第四步：启动程序

第五步：访问

hibernate validator

介绍

早期的网站，用户输入一个邮箱地址，需要将邮箱地址发送到服务端，服务端进行校验，校验成功后，给前端一个响应。

有了JavaScript后，校验工作可以放在前端去执行。那么为什么还需要服务端校验呢？因为前端传来的数据不可信。前端很容易获取到后端的接口，如果有人直接调用接口，就可能会出现非法数据，所以服务端也要数据校验。

总的来说：

- 前端校验：主要是提高用户体验
- 后端校验：主要是保证数据安全可靠

校验参数基本上是一个体力活，而且冗余代码繁多，也影响代码的可读性，我们需要一个比较优雅的方式来解决这个问题。Hibernate Validator 框架刚好解决了这个问题，可以以很优雅的方式实现参数的校验，让业务代码和校验逻辑分开,不再编写重复的校验逻辑。

hibernate-validator优势：

- 验证逻辑与业务逻辑之间进行了分离，降低了程序耦合度
- 统一且规范的验证方式，无需你再次编写重复的验证代码
- 你将更专注于你的业务，将这些繁琐的事情统统丢在一边

hibernate-validator的maven坐标：

```
1 <dependency>
2     <groupId>org.hibernate</groupId>
3     <artifactId>hibernate-validator</artifactId>
4     <version>6.0.18.Final</version>
5 </dependency>
```

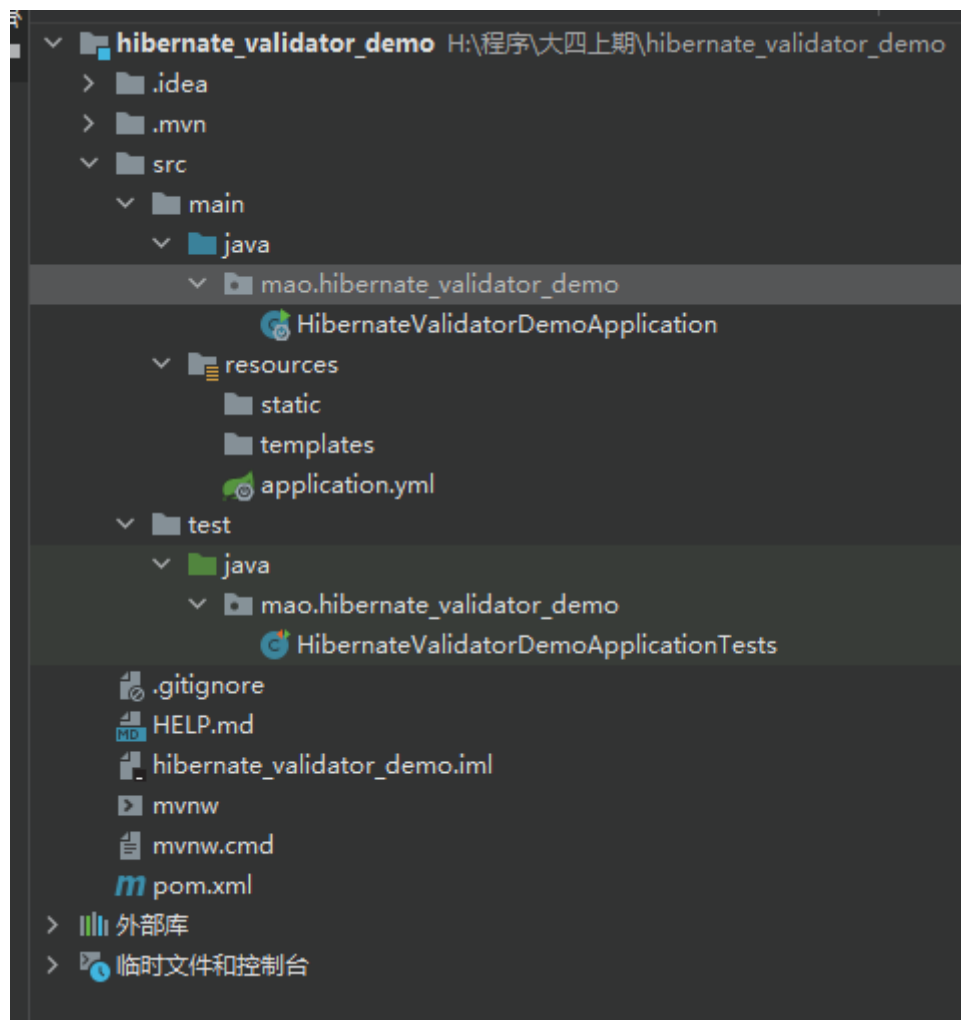
常用注解

hibernate-validator提供的校验方式为在类的属性上加入相应的注解来达到校验的目的。hibernate-validator提供的用于校验的注解如下：

注解	说明
@AssertTrue	用于boolean字段，该字段只能为true
@AssertFalse	用于boolean字段，该字段只能为false
@CreditCardNumber	对信用卡号进行一个大致的验证
@DecimalMax	只能小于或等于该值
@DecimalMin	只能大于或等于该值
@Email	检查是否是一个有效的email地址
@Future	检查该字段的日期是否是属于将来的日期
@Length(min=,max=)	检查所属的字段长度是否在min和max之间,只能用于字符串
@Max	该字段的值只能小于或等于该值
@Min	该字段的值只能大于或等于该值
@NotNull	不能为null
@NotBlank	不能为空，检查时会忽略空格
@NotEmpty	不能为空，这里的空是指空字符串
@Pattern(regex=)	被注释的元素必须符合指定的正则表达式
@URL(protocol=,host,port)	检查是否是一个有效的URL，如果提供了protocol，host等，则该URL还需满足提供的条件

入门案例

第一步：创建工程hibernate_validator_demo



第二步：修改pom文件

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
5     http://maven.apache.org/xsd/maven-4.0.0.xsd">
6     <modelVersion>4.0.0</modelVersion>
7     <parent>
8         <groupId>org.springframework.boot</groupId>
9         <artifactId>spring-boot-starter-parent</artifactId>
10        <version>2.7.1</version>
11        <relativePath/> <!-- lookup parent from repository -->
12    </parent>
13    <groupId>mao</groupId>
14    <artifactId>hibernate_validator_demo</artifactId>
15    <version>0.0.1-SNAPSHOT</version>
16    <name>hibernate_validator_demo</name>
17    <description>hibernate_validator_demo</description>
18    <properties>
19        <java.version>11</java.version>
20    </properties>
21    <dependencies>
```

```

20
21     <dependency>
22         <groupId>org.springframework.boot</groupId>
23         <artifactId>spring-boot-starter-web</artifactId>
24     </dependency>
25
26     <dependency>
27         <groupId>org.springframework.boot</groupId>
28         <artifactId>spring-boot-starter-test</artifactId>
29         <scope>test</scope>
30     </dependency>
31
32     <dependency>
33         <groupId>org.hibernate</groupId>
34         <artifactId>hibernate-validator</artifactId>
35         <version>6.2.5.Final</version>
36     </dependency>
37
38 </dependencies>
39
40 <build>
41     <plugins>
42         <plugin>
43             <groupId>org.springframework.boot</groupId>
44             <artifactId>spring-boot-maven-plugin</artifactId>
45         </plugin>
46     </plugins>
47 </build>
48
49 </project>
50

```

第三步：创建User类

```

1  package mao.hibernate_validator_demo.entity;
2
3  import org.hibernate.validator.constraints.Length;
4
5  import javax.validation.constraints.*;
6
7  /**
8   * Project name(项目名称): hibernate_validator_demo
9   * Package(包名): mao.hibernate_validator_demo.entity
10  * Class(类名): User
11  * Author(作者): mao
12  * Author QQ: 1296193245
13  * GitHub: https://github.com/maomao124/
14  * Date(创建日期): 2022/10/29
15  * Time(创建时间): 12:47
16  * Version(版本): 1.0

```

```

17  * Description(描述): 无
18  */
19
20  public class User
21  {
22      /**
23       * id
24       */
25      private Integer id;
26      /**
27       * 用户名
28       */
29      private String userName;
30      /**
31       * 年龄
32       */
33      private Integer age;
34      /**
35       * 电子邮件
36       */
37      private String email;
38
39
40  }

```

第四步：添加对应的注解

```

1  package mao.use.entity;
2
3  import org.hibernate.validator.constraints.Length;
4
5  import javax.validation.constraints.*;
6
7  /**
8   * Project name(项目名称): hibernate_validator_demo
9   * Package(包名): mao.hibernate_validator_demo.entity
10  * Class(类名): User
11  * Author(作者): mao
12  * Author QQ: 1296193245
13  * GitHub: https://github.com/maomao124/
14  * Date(创建日期): 2022/10/29
15  * Time(创建时间): 12:47
16  * Version(版本): 1.0
17  * Description(描述): 无
18  */
19
20  public class User
21  {
22      /**
23       * id
24       */

```

```

25     @NotNull(message = "用户id不能为空")
26     private Integer id;
27     /**
28      * 用户名
29      */
30     @NotEmpty(message = "用户名不能为空")
31     @Length(max = 40, message = "用户名长度不能超过40位")
32     private String userName;
33     /**
34      * 年龄
35      */
36     @Min(value = 18, message = "年龄至少为18岁")
37     @Max(value = 60, message = "年龄最大为60岁")
38     private Integer age;
39     /**
40      * 电子邮件
41      */
42     //@Email(message = "邮箱格式不正确")
43     @Pattern(regexp = "[a-zA-Z0-9_-]+@[a-zA-Z0-9_-]+(\\\\. [a-zA-Z0-9_-]+)+$", message = "邮箱格式不正确")
44     private String email;
45
46     public Integer getId()
47     {
48         return id;
49     }
50
51     public void setId(Integer id)
52     {
53         this.id = id;
54     }
55
56     public String getUserName()
57     {
58         return userName;
59     }
60
61     public void setUserName(String userName)
62     {
63         this.userName = userName;
64     }
65
66     public Integer getAge()
67     {
68         return age;
69     }
70
71     public void setAge(Integer age)
72     {
73         this.age = age;
74     }
75
76     public String getEmail()
77     {
78         return email;
79     }
80
81     public void setEmail(String email)

```

```

82     {
83         this.email = email;
84     }
85 }
86

```

第五步：创建UserController

```

1  package mao.hibernate_validator_demo.controller;
2
3  import mao.hibernate_validator_demo.entity.User;
4  import org.slf4j.Logger;
5  import org.slf4j.LoggerFactory;
6  import org.springframework.validation.annotation.Validated;
7  import org.springframework.web.bind.annotation.RequestBody;
8  import org.springframework.web.bind.annotation.RequestMapping;
9  import org.springframework.web.bind.annotation.RestController;
10
11 import javax.validation.constraints.NotBlank;
12
13 /**
14  * Project name(项目名称): hibernate_validator_demo
15  * Package(包名): mao.hibernate_validator_demo.controller
16  * Class(类名): UserController
17  * Author(作者): mao
18  * Author QQ: 1296193245
19  * GitHub: https://github.com/maomao124/
20  * Date(创建日期): 2022/10/29
21  * Time(创建时间): 13:01
22  * Version(版本): 1.0
23  * Description(描述): 无
24  */
25
26 @RestController
27 //开启校验
28 @Validated
29 public class UserController
30 {
31     private static final Logger log =
32     LoggerFactory.getLogger(UserController.class);
33
34     @RequestMapping("/delete")
35     public String delete(@NotBlank(message = "id不能为空") String id)
36     {
37         log.info("delete..." + id);
38         return "OK";
39     }
40
41     @RequestMapping("/save")
42     public String save(@Validated @RequestBody User user)

```



```

42     {
43         log.info("save..." + user);
44         return "OK";
45     }
46 }

```

第六步：启动程序

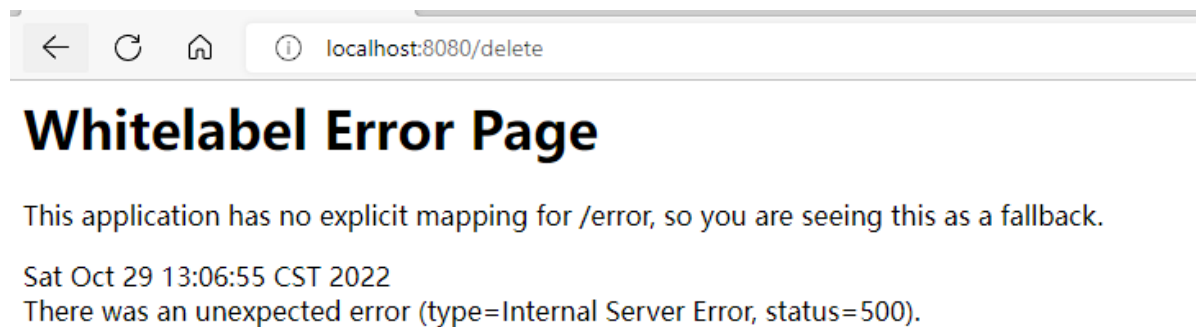
```

1      .   ____          _            __ _ _
2  /\ \  / ___'___ _ _ (___  _ _ _ \ / ___/
3  ( ( )\___ \| '_ \| '_ \| | '_ \ \___ \
4  \/ / ___) | | | | | | | | | | | | | | | |
5  ' /___ \| | | | | | | | | | | | | | | | |
6  =====|_|=====|__|=/_/_/_/_/
7  :: Spring Boot ::                (v2.7.1)
8
9  2022-10-29 13:05:35.506 INFO 19760 --- [main]
m.h.HibernateValidatorDemoApplication : Starting
HibernateValidatorDemoApplication using Java 16.0.2 on mao with PID 19760
(H:\程序\大四上期\hibernate_validator_demo\target\classes started by mao in
H:\程序\大四上期\hibernate_validator_demo)
10 2022-10-29 13:05:35.509 INFO 19760 --- [main]
m.h.HibernateValidatorDemoApplication : No active profile set, falling
back to 1 default profile: "default"
11 2022-10-29 13:05:36.212 INFO 19760 --- [main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s):
8080 (http)
12 2022-10-29 13:05:36.220 INFO 19760 --- [main]
o.apache.catalina.core.StandardService : Starting service [Tomcat]
13 2022-10-29 13:05:36.220 INFO 19760 --- [main]
org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache
Tomcat/9.0.64]
14 2022-10-29 13:05:36.296 INFO 19760 --- [main] o.a.c.c.C.
[Tomcat].[localhost].[/] : Initializing Spring embedded
WebApplicationContext
15 2022-10-29 13:05:36.296 INFO 19760 --- [main]
w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext:
initialization completed in 744 ms
16 2022-10-29 13:05:36.546 INFO 19760 --- [main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080
(http) with context path ''
17 2022-10-29 13:05:36.556 INFO 19760 --- [main]
m.h.HibernateValidatorDemoApplication : Started
HibernateValidatorDemoApplication in 1.324 seconds (JVM running for 1.88)

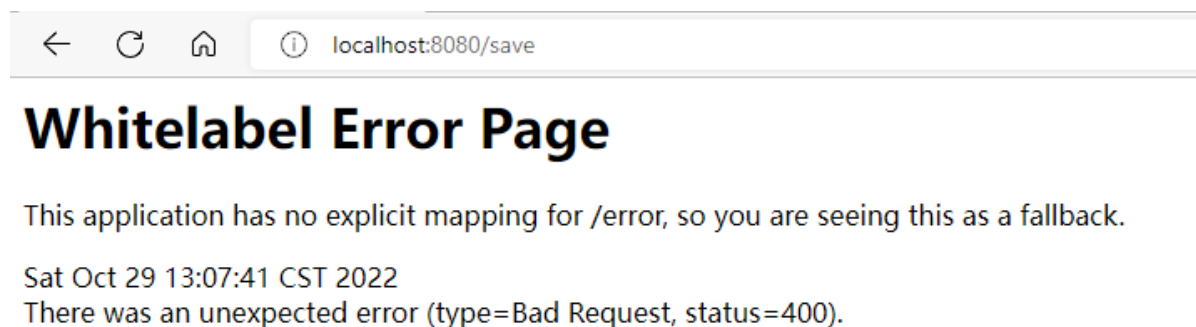
```

第七步：访问

<http://localhost:8080/delete>



<http://localhost:8080/save>



```
1 2022-10-29 13:10:06.254 ERROR 2412 --- [nio-8080-exec-5] o.a.c.c.c.[.].[./].
   [dispatcherServlet] : Servlet.service() for servlet [dispatcherServlet]
   in context with path [] threw exception [Request processing failed; nested
   exception is javax.validation.ConstraintViolationException: delete.id: id不
   能为空] with root cause
2
3 javax.validation.ConstraintViolationException: delete.id: id不能为空
4     at
   org.springframework.validation.beanvalidation.MethodValidationInterceptor.i
   nvoke(MethodValidationInterceptor.java:120) ~[spring-context-
   5.3.21.jar:5.3.21]
5     at
   org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(Reflec
   tiveMethodInvocation.java:186) ~[spring-aop-5.3.21.jar:5.3.21]
6     at
   org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.proce
   ed(CglibAopProxy.java:763) ~[spring-aop-5.3.21.jar:5.3.21]
```

```

7      at
  org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.i
  ntercept(CglibAopProxy.java:708) ~[spring-aop-5.3.21.jar:5.3.21]
8      at
  mao.hibernate_validator_demo.controller.UserController$$EnhancerBySpringCGL
  IB$$648dd9df.delete(<generated>) ~[classes/:na]
9      at
  java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
  Method) ~[na:na]
10     at
  java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethod
  AccessorImpl.java:78) ~[na:na]
11     at
  java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Delegati
  ngMethodAccessorImpl.java:43) ~[na:na]
12     at java.base/java.lang.reflect.Method.invoke(Method.java:567) ~[na:na]
13     at
  org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(Invo
  cableHandlerMethod.java:205) ~[spring-web-5.3.21.jar:5.3.21]
14     at
  org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequ
  est(InvocableHandlerMethod.java:150) ~[spring-web-5.3.21.jar:5.3.21]
15     at
  org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandl
  erMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117) ~[spring-
  webmvc-5.3.21.jar:5.3.21]
16     at
  org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandler
  Adapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:895) ~
  [spring-webmvc-5.3.21.jar:5.3.21]
17     at
  org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandler
  Adapter.handleInternal(RequestMappingHandlerAdapter.java:808) ~[spring-
  webmvc-5.3.21.jar:5.3.21]
18     at
  org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.han
  dle(AbstractHandlerMethodAdapter.java:87) ~[spring-webmvc-
  5.3.21.jar:5.3.21]
19     at
  org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServ
  let.java:1067) ~[spring-webmvc-5.3.21.jar:5.3.21]
20     at
  org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServl
  et.java:963) ~[spring-webmvc-5.3.21.jar:5.3.21]
21     at
  org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkSe
  rvlet.java:1006) ~[spring-webmvc-5.3.21.jar:5.3.21]
22     at
  org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.jav
  a:898) ~[spring-webmvc-5.3.21.jar:5.3.21]
23     at javax.servlet.http.HttpServlet.service(HttpServlet.java:655) ~
  [tomcat-embed-core-9.0.64.jar:4.0.FR]
24     at
  org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.j
  ava:883) ~[spring-webmvc-5.3.21.jar:5.3.21]
25     at javax.servlet.http.HttpServlet.service(HttpServlet.java:764) ~
  [tomcat-embed-core-9.0.64.jar:4.0.FR]

```

```
26      at
    org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:227) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
27      at
    org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
28      at
    org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53) ~
[tomcat-embed-websocket-9.0.64.jar:9.0.64]
29      at
    org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
30      at
    org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
31      at
    org.springframework.web.filter.RequestContextFilter.doFilterInternal(Reques
tContextFilter.java:100) ~[spring-web-5.3.21.jar:5.3.21]
32      at
    org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequest
Filter.java:117) ~[spring-web-5.3.21.jar:5.3.21]
33      at
    org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
34      at
    org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
35      at
    org.springframework.web.filter.FormContentFilter.doFilterInternal(FormConte
ntFilter.java:93) ~[spring-web-5.3.21.jar:5.3.21]
36      at
    org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequest
Filter.java:117) ~[spring-web-5.3.21.jar:5.3.21]
37      at
    org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
38      at
    org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
39      at
    org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(Cha
racterEncodingFilter.java:201) ~[spring-web-5.3.21.jar:5.3.21]
40      at
    org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequest
Filter.java:117) ~[spring-web-5.3.21.jar:5.3.21]
41      at
    org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
42      at
    org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
43      at
    org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.j
ava:197) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
44      at
    org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.j
ava:97) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
```

```

45      at
org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBas
e.java:541) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
46      at
org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:13
5) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
47      at
org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:92
) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
48      at
org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.jav
a:78) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
49      at
org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:360)
~[tomcat-embed-core-9.0.64.jar:9.0.64]
50      at
org.apache.coyote.http11.Http11Processor.service(Http11Processor.java:399)
~[tomcat-embed-core-9.0.64.jar:9.0.64]
51      at
org.apache.coyote.AbstractProcessorLight.process(AbstractProcessorLight.jav
a:65) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
52      at
org.apache.coyote.AbstractProtocol$ConnectionHandler.process(AbstractProtoc
ol.java:890) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
53      at
org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.ja
va:1787) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
54      at
org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java
:49) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
55      at
org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecu
tor.java:1191) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
56      at
org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExec
utor.java:659) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
57      at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.j
ava:61) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
58      at java.base/java.lang.Thread.run(Thread.java:831) ~[na:na]
59
60 2022-10-29 13:10:08.522 ERROR 2412 --- [nio-8080-exec-4] o.a.c.c.C.[.[/].
[dispatcherServlet] : Servlet.service() for servlet [dispatcherServlet]
in context with path [] threw exception [Request processing failed; nested
exception is javax.validation.ConstraintViolationException: delete.id: id不
能为空] with root cause
61
62 javax.validation.ConstraintViolationException: delete.id: id不能为空
63      at
org.springframework.validation.beanvalidation.MethodValidationInterceptor.i
nvoke(MethodValidationInterceptor.java:120) ~[spring-context-
5.3.21.jar:5.3.21]
64      at
org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(Reflec
tiveMethodInvocation.java:186) ~[spring-aop-5.3.21.jar:5.3.21]
65      at
org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.proce
ed(CglibAopProxy.java:763) ~[spring-aop-5.3.21.jar:5.3.21]

```

```

66      at
org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.i
ntercept(CglibAopProxy.java:708) ~[spring-aop-5.3.21.jar:5.3.21]
67      at
mao.hibernate_validator_demo.controller.UserController$$EnhancerBySpringCGL
IB$$648dd9df.delete(<generated>) ~[classes/:na]
68      at
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method) ~[na:na]
69      at
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethod
AccessorImpl.java:78) ~[na:na]
70      at
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Delegati
ngMethodAccessorImpl.java:43) ~[na:na]
71      at java.base/java.lang.reflect.Method.invoke(Method.java:567) ~[na:na]
72      at
org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(Invo
cableHandlerMethod.java:205) ~[spring-web-5.3.21.jar:5.3.21]
73      at
org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequ
est(InvocableHandlerMethod.java:150) ~[spring-web-5.3.21.jar:5.3.21]
74      at
org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandl
erMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117) ~[spring-
webmvc-5.3.21.jar:5.3.21]
75      at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandler
Adapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:895) ~
[spring-webmvc-5.3.21.jar:5.3.21]
76      at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandler
Adapter.handleInternal(RequestMappingHandlerAdapter.java:808) ~[spring-
webmvc-5.3.21.jar:5.3.21]
77      at
org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.han
dle(AbstractHandlerMethodAdapter.java:87) ~[spring-webmvc-
5.3.21.jar:5.3.21]
78      at
org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServ
let.java:1067) ~[spring-webmvc-5.3.21.jar:5.3.21]
79      at
org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServl
et.java:963) ~[spring-webmvc-5.3.21.jar:5.3.21]
80      at
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkSe
rvlet.java:1006) ~[spring-webmvc-5.3.21.jar:5.3.21]
81      at
org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.jav
a:898) ~[spring-webmvc-5.3.21.jar:5.3.21]
82      at javax.servlet.http.HttpServlet.service(HttpServlet.java:655) ~
[tomcat-embed-core-9.0.64.jar:4.0.FR]
83      at
org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.j
ava:883) ~[spring-webmvc-5.3.21.jar:5.3.21]
84      at javax.servlet.http.HttpServlet.service(HttpServlet.java:764) ~
[tomcat-embed-core-9.0.64.jar:4.0.FR]

```

```
85      at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:227) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
86      at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
87      at
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53) ~
[tomcat-embed-websocket-9.0.64.jar:9.0.64]
88      at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
89      at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
90      at
org.springframework.web.filter.RequestContextFilter.doFilterInternal(Reques
tContextFilter.java:100) ~[spring-web-5.3.21.jar:5.3.21]
91      at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequest
Filter.java:117) ~[spring-web-5.3.21.jar:5.3.21]
92      at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
93      at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
94      at
org.springframework.web.filter.FormContentFilter.doFilterInternal(FormConte
ntFilter.java:93) ~[spring-web-5.3.21.jar:5.3.21]
95      at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequest
Filter.java:117) ~[spring-web-5.3.21.jar:5.3.21]
96      at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
97      at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
98      at
org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(Cha
racterEncodingFilter.java:201) ~[spring-web-5.3.21.jar:5.3.21]
99      at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequest
Filter.java:117) ~[spring-web-5.3.21.jar:5.3.21]
100     at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applicatio
nFilterChain.java:189) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
101     at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterC
hain.java:162) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
102     at
org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.j
ava:197) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
103     at
org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.j
ava:97) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
```

```

104     at
    org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:541) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
105     at
    org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:135) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
106     at
    org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:92) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
107     at
    org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:78) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
108     at
    org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:360) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
109     at
    org.apache.coyote.http11.Http11Processor.service(Http11Processor.java:399) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
110     at
    org.apache.coyote.AbstractProcessorLight.process(AbstractProcessorLight.java:65) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
111     at
    org.apache.coyote.AbstractProtocol$ConnectionHandler.process(AbstractProtocol.java:890) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
112     at
    org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.java:1787) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
113     at
    org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:49) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
114     at
    org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1191) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
115     at
    org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
116     at
    org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61) ~[tomcat-embed-core-9.0.64.jar:9.0.64]
117     at java.base/java.lang.Thread.run(Thread.java:831) ~[na:na]
118
119 2022-10-29 13:10:12.624 WARN 2412 --- [nio-8080-exec-6]
    .w.s.m.s.DefaultHandlerExceptionResolver : Resolved
    [org.springframework.http.converter.HttpMessageNotReadableException:
    Required request body is missing: public java.lang.String
    mao.hibernate_validator_demo.controller.UserController.save(mao.hibernate_validator_demo.entity.User)]

```


为了能够在页面友好的显示数据校验结果，可以通过全局异常处理来解决

第八步：创建全局异常处理类

```
1 package mao.hibernate_validator_demo.controller;
2
3 import org.slf4j.Logger;
4 import org.slf4j.LoggerFactory;
5 import org.springframework.validation.BindException;
6 import org.springframework.web.bind.annotation.ControllerAdvice;
7 import org.springframework.web.bind.annotation.ExceptionHandler;
8 import org.springframework.web.bind.annotation.RestControllerAdvice;
9
10 import javax.servlet.http.HttpServletRequest;
11 import javax.validation.ConstraintViolation;
12 import javax.validation.ConstraintViolationException;
13 import java.util.Objects;
14 import java.util.Set;
15
16 /**
17  * Project name(项目名称): hibernate_validator_demo
18  * Package(包名): mao.hibernate_validator_demo.controller
19  * Class(类名): ExceptionConfiguration
20  * Author(作者): mao
21  * Author QQ: 1296193245
22  * GitHub: https://github.com/maomao124/
23  * Date(创建日期): 2022/10/29
24  * Time(创建时间): 13:12
25  * Version(版本): 1.0
26  * Description(描述): 无
27  */
28
29
30 @RestControllerAdvice
31 public class ExceptionConfiguration
32 {
33
34     private static final Logger log =
35         LoggerFactory.getLogger(ExceptionConfiguration.class);
36
37     @ExceptionHandler({ConstraintViolationException.class,
38         BindException.class})
39     public String validateException(Exception ex, HttpServletRequest
40         request)
41     {
42         log.error("异常: ", ex);
43         String msg = null;
44         if (ex instanceof ConstraintViolationException)
45         {
46             ConstraintViolationException constraintViolationException =
47                 (ConstraintViolationException) ex;
48             Set<ConstraintViolation<?>> violations =
49                 constraintViolationException.getConstraintViolations();
50             ConstraintViolation<?> next = violations.iterator().next();
51             msg = next.getMessage();
52         }
53     }
54 }
```

```

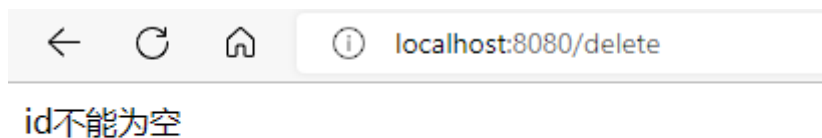
49         }
50         else if (ex instanceof BindException)
51         {
52             BindException bindException = (BindException) ex;
53             msg =
Objects.requireNonNull(bindException.getBindingResult().getFieldError()).get
DefaultMessage();
54         }
55         return msg;
56     }
57 }
58

```

第九步：重启程序

第十步：访问

<http://localhost:8080/delete>



```

1 2022-10-29 13:18:54.922 ERROR 2416 --- [nio-8080-exec-1]
m.h.controller.ExceptionConfiguration : 异常:
2
3 javax.validation.ConstraintViolationException: delete.id: id不能为空
4     at
org.springframework.validation.beanvalidation.MethodValidationInterceptor.inv
oke(MethodValidationInterceptor.java:120) ~[spring-context-5.3.21.jar:5.3.21]
5     at
org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(Reflecti
veMethodInvocation.java:186) ~[spring-aop-5.3.21.jar:5.3.21]
6
7     ...

```

通过控制台的输出可以看到，校验框架将我们的多个属性都进行了数据校验（默认行为），如果我们希望只要有一个属性校验失败就直接返回提示信息，后面的属性不再进行校验了该如何实现呢？

第十一步：创建ValidatorConfig类，指定校验时使用快速失败返回模式

```
1 package mao.hibernate_validator_demo.config;
2
3 import org.hibernate.validator.HibernateValidator;
4 import org.springframework.context.annotation.Bean;
5 import
org.springframework.validation.beanvalidation.MethodValidationPostProcessor;
6
7 import javax.validation.Validation;
8 import javax.validation.Validator;
9 import javax.validation.ValidatorFactory;
10
11 /**
12  * Project name(项目名称): hibernate_validator_demo
13  * Package(包名): mao.hibernate_validator_demo.config
14  * Class(类名): ValidatorConfig
15  * Author(作者): mao
16  * Author QQ: 1296193245
17  * GitHub: https://github.com/maomao124/
18  * Date(创建日期): 2022/10/29
19  * Time(创建时间): 13:21
20  * Version(版本): 1.0
21  * Description(描述): 无
22  */
23
24
25 public class ValidatorConfig
26 {
27     @Bean
28     public Validator validator()
29     {
30         ValidatorFactory validatorFactory =
31             Validation.byProvider(HibernateValidator.class)
32                 .configure()
33                 //快速失败返回模式
34                 .addProperty("hibernate.validator.fail_fast",
35 "true")
36                 .buildValidatorFactory();
37         return validatorFactory.getValidator();
38     }
39
40     /**
41      * 开启快速返回
```

```

41      * 如果参数校验有异常，直接抛异常，不会进入到 controller，使用全局异常拦截进行拦截
42      */
43      @Bean
44      public MethodValidationPostProcessor methodValidationPostProcessor()
45      {
46          MethodValidationPostProcessor postProcessor =
47              new MethodValidationPostProcessor();
48          /*设置validator模式为快速失败返回*/
49          postProcessor.setValidator(validator());
50          return postProcessor;
51      }
52  }

```

上面创建的类并不是配置类，所以到目前为止快速失败返回模式并不会生效，为了使其生效需要创建一个注解用于控制此模式的开启

第十二步：创建注解EnableFormValidator用于控制快速失败返回模式的开启

```

1  package mao.hibernate_validator_demo.config;
2
3  import org.springframework.context.annotation.Import;
4
5  import java.lang.annotation.ElementType;
6  import java.lang.annotation.Retention;
7  import java.lang.annotation.RetentionPolicy;
8  import java.lang.annotation.Target;
9
10 @Target(ElementType.TYPE)
11 @Retention(RetentionPolicy.RUNTIME)
12 @Import(ValidatorConfig.class)
13 public @interface EnableFormValidator
14 {
15
16 }

```

第十三步：在启动类上加入EnableFormValidator注解，开启快速失败返回模式

```
1 package mao.hibernate_validator_demo;
2
3 import mao.hibernate_validator_demo.config.EnableFormValidator;
4 import org.springframework.boot.SpringApplication;
5 import org.springframework.boot.autoconfigure.SpringBootApplication;
6
7 @SpringBootApplication
8 @EnableFormValidator
9 public class HibernateValidatorDemoApplication
10 {
11
12     public static void main(String[] args)
13     {
14         SpringApplication.run(HibernateValidatorDemoApplication.class,
15             args);
16     }
17 }
```

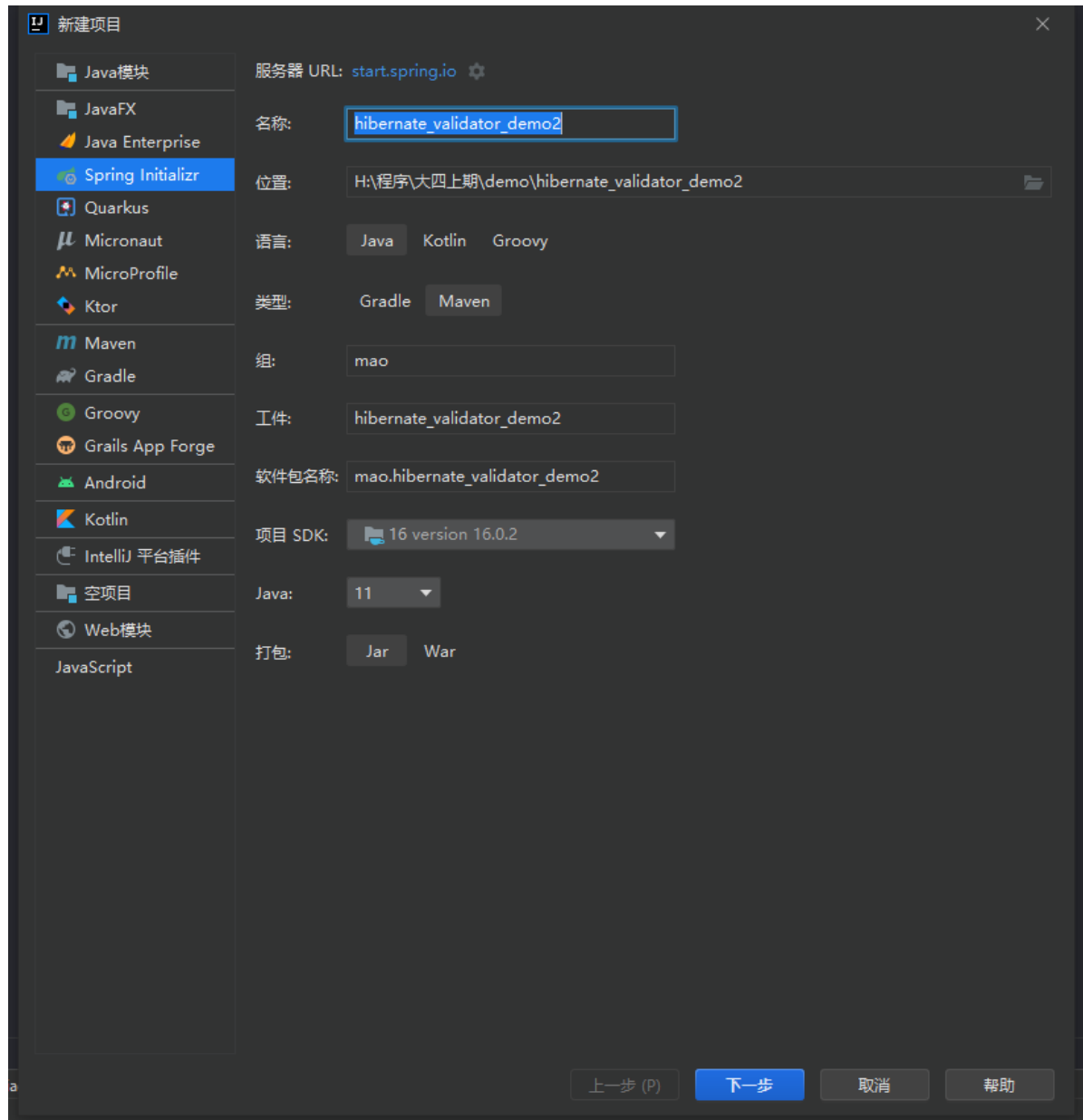
虽然我们输入的数据有多个都不符合校验规则，但是只有一个校验失败异常信息，这说明已经开启了快速失败返回模式

封装成一个模块

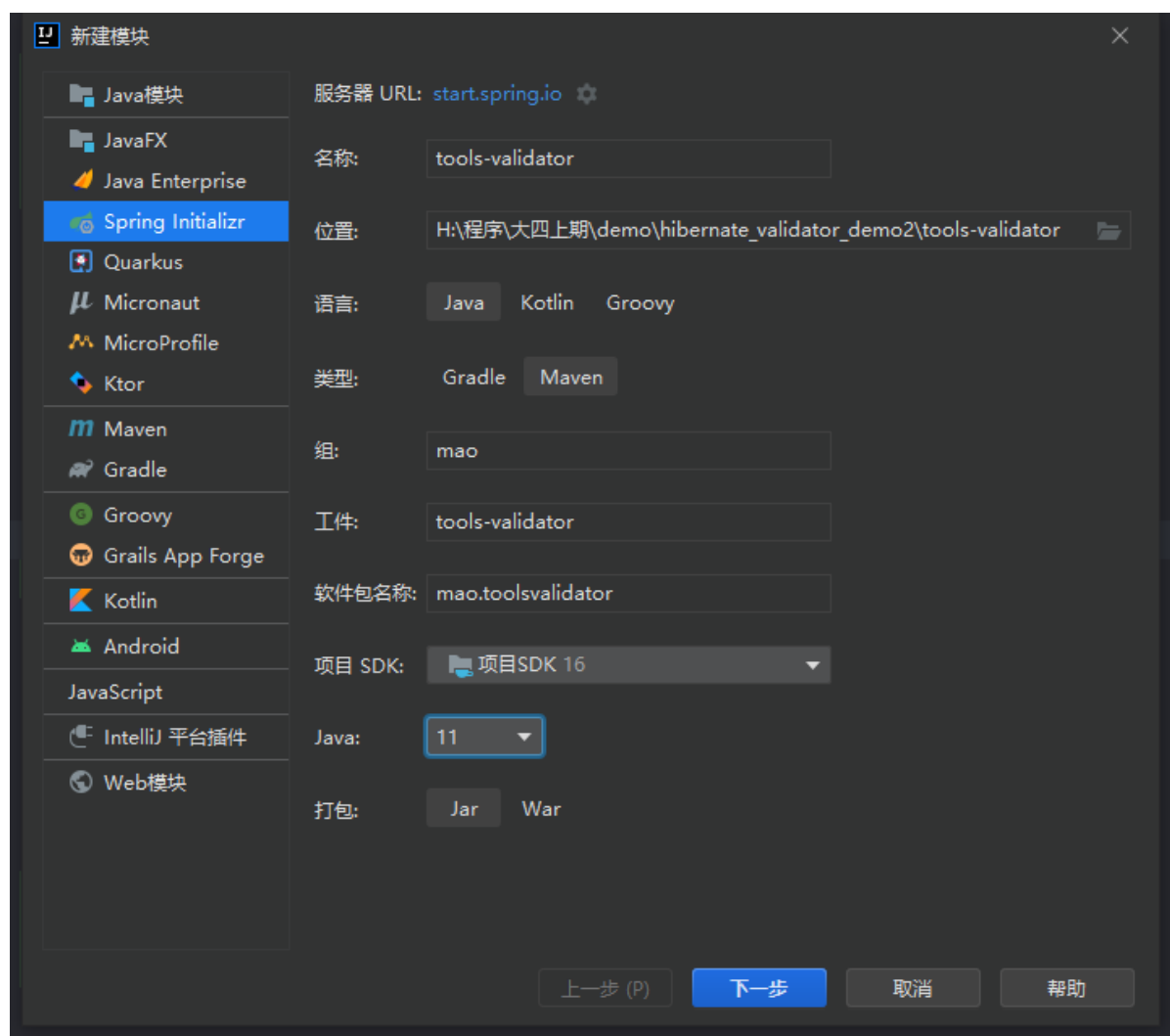
封装

第一步：初始化项目

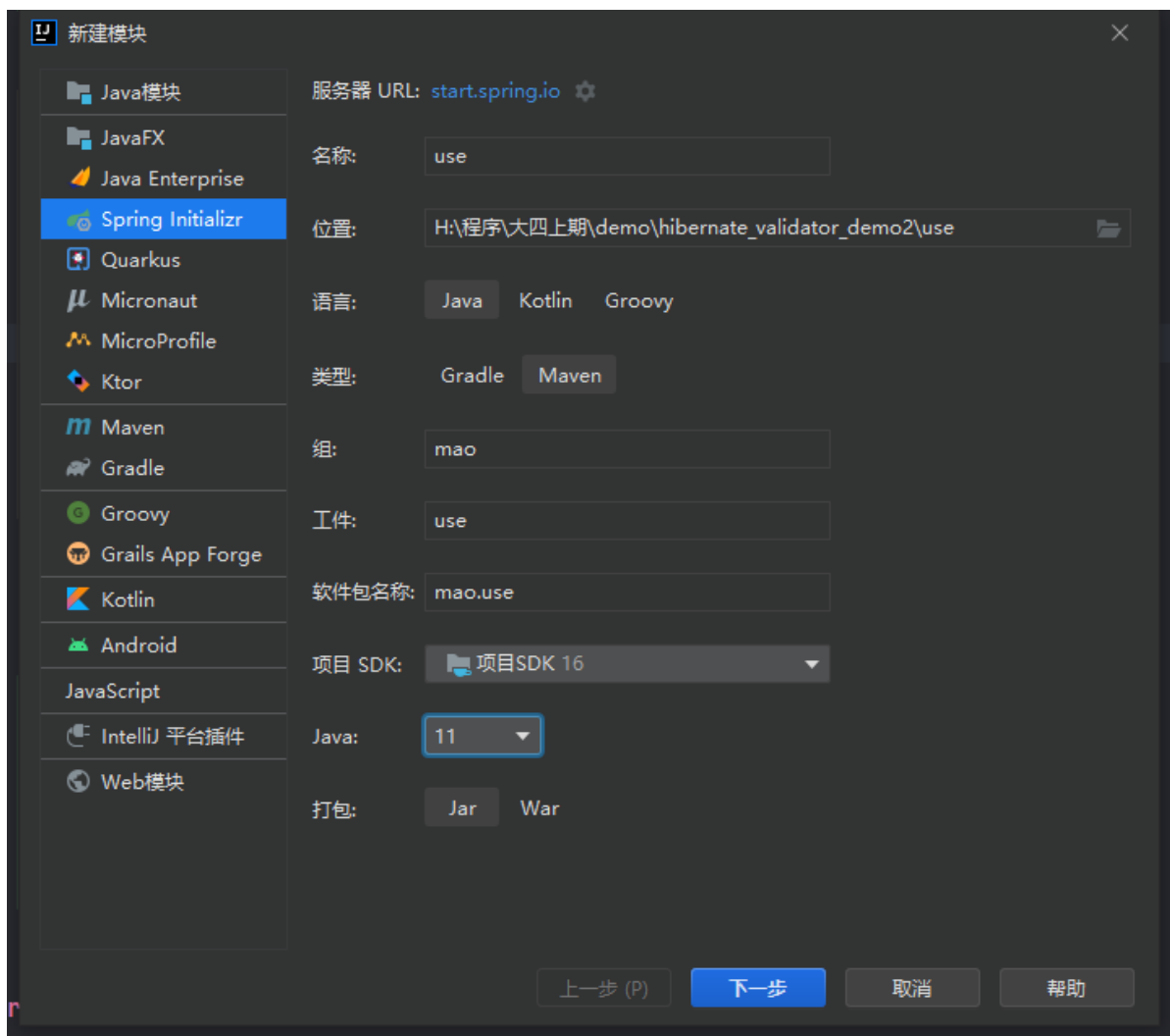
创建父工程hibernate_validator_demo2



创建子工程tools-validator



创建子工程use



第二步：修改项目的pom文件

父工程的pom文件：

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
  https://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5
6     <parent>
7         <groupId>org.springframework.boot</groupId>
8         <artifactId>spring-boot-starter-parent</artifactId>
9         <version>2.7.1</version>
10        <relativePath/> <!-- lookup parent from repository -->
11    </parent>
12
13    <groupId>mao</groupId>
```



```

14     <artifactId>hibernate_validator_demo2</artifactId>
15     <version>0.0.1-SNAPSHOT</version>
16     <name>hibernate_validator_demo2</name>
17     <description>hibernate_validator_demo2</description>
18     <packaging>pom</packaging>
19
20     <properties>
21         <java.version>11</java.version>
22     </properties>
23
24     <modules>
25         <module>tools-validator</module>
26         <module>use</module>
27     </modules>
28
29     <dependencies>
30
31 </dependencies>
32
33     <dependencyManagement>
34         <dependencies>
35
36         </dependencies>
37     </dependencyManagement>
38
39     <build>
40         <plugins>
41             <plugin>
42                 <groupId>org.springframework.boot</groupId>
43                 <artifactId>spring-boot-maven-plugin</artifactId>
44             </plugin>
45         </plugins>
46     </build>
47
48 </project>

```

子工程tools-validator的pom文件:

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
  http://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5
6     <parent>
7         <artifactId>hibernate_validator_demo2</artifactId>
8         <groupId>mao</groupId>
9         <version>0.0.1-SNAPSHOT</version>
10    </parent>
11
12    <artifactId>tools-validator</artifactId>

```

```

13     <version>0.0.1-SNAPSHOT</version>
14     <name>tools-validator</name>
15     <description>tools-validator</description>
16
17     <properties>
18
19     </properties>
20
21     <dependencies>
22
23         <dependency>
24             <groupId>org.springframework.boot</groupId>
25             <artifactId>spring-boot-starter-web</artifactId>
26         </dependency>
27
28         <dependency>
29             <groupId>org.hibernate</groupId>
30             <artifactId>hibernate-validator</artifactId>
31             <version>6.2.5.Final</version>
32         </dependency>
33
34     </dependencies>
35
36     <build>
37         <plugins>
38             <plugin>
39                 <groupId>org.springframework.boot</groupId>
40                 <artifactId>spring-boot-maven-plugin</artifactId>
41             </plugin>
42         </plugins>
43     </build>
44
45 </project>

```

子工程use的pom文件:

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <project xmlns="http://maven.apache.org/POM/4.0.0"
3  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
5  https://maven.apache.org/xsd/maven-4.0.0.xsd">
6      <modelVersion>4.0.0</modelVersion>
7      <parent>
8          <artifactId>hibernate_validator_demo2</artifactId>
9          <groupId>mao</groupId>
10         <version>0.0.1-SNAPSHOT</version>
11     </parent>
12     <artifactId>use</artifactId>
13     <version>0.0.1-SNAPSHOT</version>
14     <name>use</name>
15     <description>use</description>

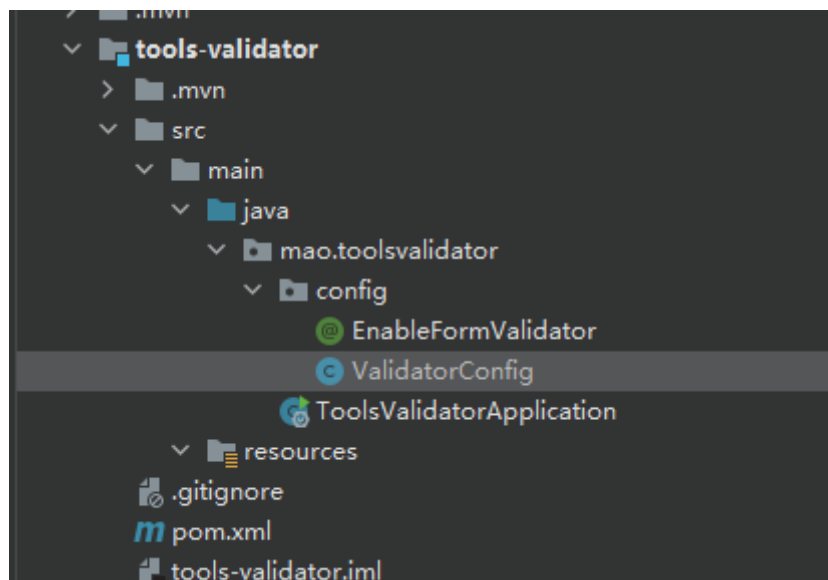
```

```

15     <properties>
16
17     </properties>
18
19     <dependencies>
20
21         <dependency>
22             <groupId>org.springframework.boot</groupId>
23             <artifactId>spring-boot-starter-web</artifactId>
24         </dependency>
25
26         <dependency>
27             <groupId>org.springframework.boot</groupId>
28             <artifactId>spring-boot-starter-test</artifactId>
29             <scope>test</scope>
30         </dependency>
31
32     </dependencies>
33
34     <build>
35         <plugins>
36             <plugin>
37                 <groupId>org.springframework.boot</groupId>
38                 <artifactId>spring-boot-maven-plugin</artifactId>
39             </plugin>
40         </plugins>
41     </build>
42
43 </project>

```

第三步：拷贝之前config包下的所有类到此子工程中



使用

第一步：导入tools-validator的依赖

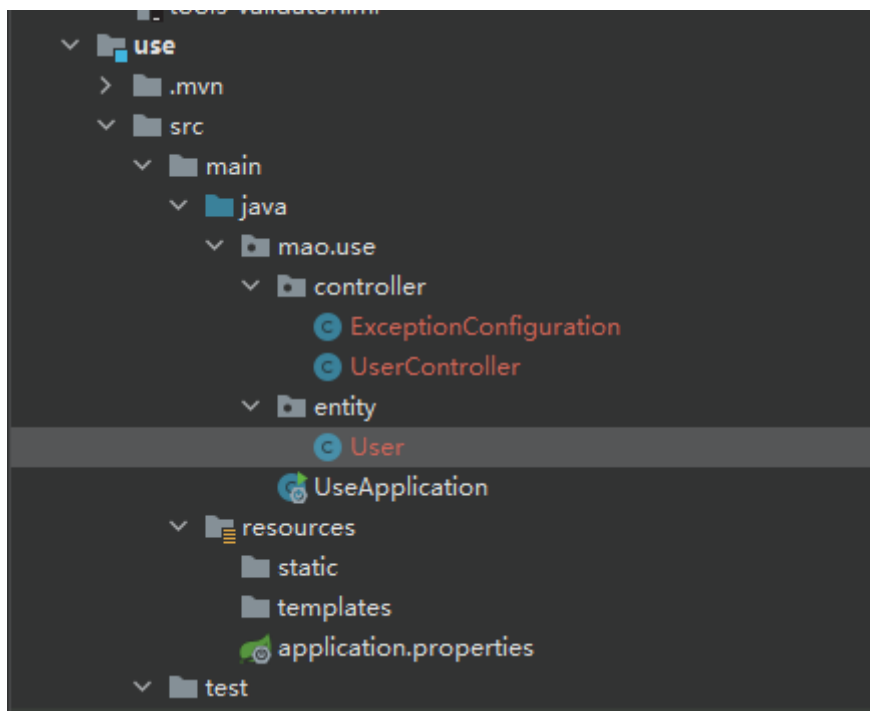
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
  http://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6         <artifactId>hibernate_validator_demo2</artifactId>
7         <groupId>mao</groupId>
8         <version>0.0.1-SNAPSHOT</version>
9     </parent>
10    <artifactId>use</artifactId>
11    <version>0.0.1-SNAPSHOT</version>
12    <name>use</name>
13    <description>use</description>
14
15    <properties>
16
17    </properties>
18
19    <dependencies>
20
21        <dependency>
22            <groupId>org.springframework.boot</groupId>
23            <artifactId>spring-boot-starter-web</artifactId>
24        </dependency>
25
26        <dependency>
27            <groupId>org.springframework.boot</groupId>
28            <artifactId>spring-boot-starter-test</artifactId>
29            <scope>test</scope>
30        </dependency>
31
32        <dependency>
33            <groupId>mao</groupId>
34            <artifactId>tools-validator</artifactId>
35            <version>0.0.1-SNAPSHOT</version>
36        </dependency>
37
38    </dependencies>
39
40    <build>
41        <plugins>
42            <plugin>
```

```

43         <groupId>org.springframework.boot</groupId>
44         <artifactId>spring-boot-maven-plugin</artifactId>
45     </plugin>
46 </plugins>
47 </build>
48
49 </project>

```

第二步：拷贝之前的entity包和controller包到此项目中



第三步：在启动类上添加对应的注解

```

1  package mao.use;
2
3  import mao.toolsvalidator.config.EnableFormValidator;
4  import org.springframework.boot.SpringApplication;
5  import org.springframework.boot.autoconfigure.SpringBootApplication;
6
7  @SpringBootApplication
8  @EnableFormValidator
9  public class UseApplication
10 {
11
12     public static void main(String[] args)

```

第四步：启动程序

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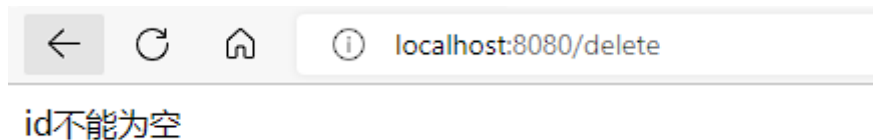
```

20 2022-10-29 14:00:18.298 INFO 14504 --- [nio-8080-exec-2] o.a.c.c.C.
    [Tomcat].[localhost].[/]       : Initializing Spring DispatcherServlet
    'dispatcherServlet'
21 2022-10-29 14:00:18.298 INFO 14504 --- [nio-8080-exec-2]
    o.s.web.servlet.DispatcherServlet : Initializing Servlet
    'dispatcherServlet'
22 2022-10-29 14:00:18.299 INFO 14504 --- [nio-8080-exec-2]
    o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms

```

第五步：访问

<http://localhost:8080/delete>



```

1 2022-10-29 14:01:31.769 ERROR 14504 --- [nio-8080-exec-6]
    m.use.controller.ExceptionConfiguration : 异常:
2
3 javax.validation.ConstraintViolationException: delete.id: id不能为空
4     at
    org.springframework.validation.beanvalidation.MethodValidationInterceptor.in
    voke(MethodValidationInterceptor.java:120) ~[spring-context-
    5.3.21.jar:5.3.21]
5     at
    org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(Reflect
    iveMethodInvocation.java:186) ~[spring-aop-5.3.21.jar:5.3.21]
6     at
    org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.procee
    d(CglibAopProxy.java:763) ~[spring-aop-5.3.21.jar:5.3.21]
7     at
    org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.in
    tercept(CglibAopProxy.java:708) ~[spring-aop-5.3.21.jar:5.3.21]
8     at
    mao.use.controller.UserController$$EnhancerBySpringCGLIB$$dedeecd2.delete(<g
    enerated>) ~[classes/:na]
9 ...
10 ...
11 ...

```

<http://localhost:8080/save>

[illegible]

GET

▼

http://localhost:8080/save

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

▼

1

2

3

4

5

```
{
  ... "id": "12",
  ... "userName": "2222222222222222",
  ... "age": 17
}
```

Body

Cookies

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

Text

▼



1

年龄至少为18岁

GET <http://localhost:8080/save>

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

☐ none
 ☐ form-data
 ☐ x-www-form-urlencoded
 ☒ raw
 ☐ binary
 ☐ GraphQL
 JSON

```
1 {
2   "id": "12",
3   "userName": "22222222222222222222",
4   "age": 63
5 }
```

Body Cookies Headers (5) Test Results

 Status: 20

Pretty Raw Preview Visualize Text

1 年龄最大为60岁

GET

http://localhost:8080/save

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

6

```
{
  "id": "12",
  "userName": "2222222222222222",
  "age": 63,
  "email": "13@.com"
}
```

Body

Cookies

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

Text

1 邮箱格式不正确

end

by mao

2022 10 29

