Spring Boot 数据校验

Spring Boot 数据校验依赖于 Hibernate-validator 来完成,使用 Hibernate-validator 进行数据校验,需要定义一个接收校验结果的数据模型,使用注解的形式描述字段的校验规则。

Spring Boot 整合 JDBC

pom.xml

application.yml

```
spring:
   datasource:
       url: jdbc:mysql://localhost:3306/mybatis?
useUnicode=true&characterEncoding=UTF-8
       username: root
       password: root
       driver-class-name: com.mysql.cj.jdbc.Driver
```

User

```
package com.southwind.entity;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

@Data
@AllArgsConstructor
@NoArgsConstructor
```

```
public class User {
    private long id;
    private String username;
    private String password;
    private int age;
}
```

UserRepository

```
package com.southwind.repository;
import com.southwind.entity.User;
import java.util.List;

public interface UserRepository {
    public List<User> findAll();
    public User findById(long id);
    public void save(User user);
    public void update(User user);
    public void deleteById(long id);
}
```

UserRepositoryImpl

```
package com.southwind.repository.impl;
import com.southwind.entity.User;
import com.southwind.repository.UserRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.jdbc.core.BeanPropertyRowMapper;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.stereotype.Repository;
import java.util.List;
@Repository
public class UserRepositoryImpl implements UserRepository {
    @Autowired
    private JdbcTemplate jdbcTemplate;
    @Override
    public List<User> findAll() {
        return jdbcTemplate.query("select * from t_user", new
BeanPropertyRowMapper<>(User.class));
    }
```

```
@Override
    public User findById(long id) {
         return jdbcTemplate.query("select * from t user where id = ?",new
BeanPropertyRowMapper<>(User.class),id).get(0);
       return jdbcTemplate.queryForObject("select * from t_user where id =
?",new Object[]{id},new BeanPropertyRowMapper<>(User.class));
   }
    @Override
   public void save(User user) {
        jdbcTemplate.update("insert into t_user(username,password,age)
values(?,?,?)",user.getUsername(),user.getPassword(),user.getAge());
    }
    @Override
   public void update(User user) {
        jdbcTemplate.update("update t user set username = ?,password = ?,age
?",user.getUsername(),user.getPassword(),user.getAge(),user.getId());
    }
    @Override
   public void deleteById(long id) {
        jdbcTemplate.update("delete from t_user where id = ?",id);
   }
}
```

UserHandler

```
package com.southwind.controller;

import com.southwind.repository.UserRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;

import java.util.List;

@RestController
@RequestMapping("/user")
public class UserHandler {

    @Autowired
    private UserRepository userRepository;

    @GetMapping("/findAll")
    public List<User> findAll(){
        return userRepository.findAll();
    }
}
```

```
@GetMapping("/findById/{id}")
    public User findById(@PathVariable("id") long id){
        return userRepository.findById(id);
    }
    @PostMapping("/save")
    public void save(@RequestBody User user){
        userRepository.save(user);
    }
    @PutMapping("/update")
    public void update(@RequestBody User user){
        userRepository.update(user);
    }
    @DeleteMapping("/deleteById/{id}")
    public void deleteById(@PathVariable("id") long id){
        userRepository.deleteById(id);
}
```

Spring Boot 整合 MyBatis

• pom.xml

```
<dependencies>
       <dependency>
           <groupId>org.springframework.boot</groupId>
           <artifactId>spring-boot-starter-web</artifactId>
       </dependency>
       <!-- 整合 MyBatis -->
       <dependency>
           <groupId>org.mybatis.spring.boot</groupId>
           <artifactId>mybatis-spring-boot-starter</artifactId>
           <version>1.3.1
       </dependency>
       <dependency>
           <groupId>mysql</groupId>
           <artifactId>mysql-connector-java</artifactId>
           <version>8.0.11
       </dependency>
       <dependency>
           <groupId>org.projectlombok</groupId>
```

application.yml

```
spring:
    datasource:
        url: jdbc:mysql://localhost:3306/mybatis?
useUnicode=true&characterEncoding=UTF-8
        username: root
        password: root
        driver-class-name: com.mysql.cj.jdbc.Driver
server:
    port: 9090

mybatis:
    mapper-locations: classpath:mapping/*.xml
    type-aliases-package: com.southwind.entity
```

ClazzRepository

```
package com.southwind.repository;
import com.southwind.entity.Clazz;
import java.util.List;

public interface ClazzRepository {
    public List<Clazz> findAll();
    public Clazz findById(long id);
    public void save(Clazz clazz);
    public void update(Clazz clazz);
    public void deleteById(long id);
}
```

ClazzRepository.xml

```
<select id="findById" parameterType="long" resultType="Clazz">
        select * from classes where id = #{id}

</select>

<insert id="save" parameterType="Clazz">
        insert into classes(name) values(#{name})

</insert>

<update id="update" parameterType="Clazz">
        update classes set name = #{name} where id = #{id}

</update>

<delete id="deleteById" parameterType="long">
        delete from classes where id = #{id}

</delete>

</mapper>
```

ClazzHandler

```
package com.southwind.controller;
import com.southwind.entity.Clazz;
import com.southwind.repository.ClazzRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/clazz")
public class ClazzHandler {
    @Autowired
    private ClazzRepository clazzRepository;
    @GetMapping("/findAll")
    public List<Clazz> findAll(){
        return clazzRepository.findAll();
    }
    @GetMapping("/findById/{id}")
    public Clazz findById(@PathVariable("id") long id){
        return clazzRepository.findById(id);
    }
    @PostMapping("/save")
    public void save(@RequestBody Clazz clazz){
```

```
clazzRepository.save(clazz);
}

@PutMapping("/update")
public void update(@RequestBody Clazz clazz){
    clazzRepository.update(clazz);
}

@DeleteMapping("/deleteById/{id}")
public void deleteById(@PathVariable long id){
    clazzRepository.deleteById(id);
}
```

● 启动类

```
package com.southwind;

import org.mybatis.spring.annotation.MapperScan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
@MapperScan("com.southwind.repository")
public class HelloApplication {
   public static void main(String[] args) {
        SpringApplication.run(HelloApplication.class,args);
   }
}
```

注解说明:

- @SpringBootApplication: 声明该类是 Spring Boot 的入口。
- @MapperScan: 配合 MyBatis 框架使用,将 Mapper 代理扫描到 IoC 中,注解中的值对应接口所在的包。