Spring MVC Number Validation

In Spring MVC Validation, we can validate the user's input within a number range. The following annotations are used to achieve number validation:

**@Min annotation** - It is required to pass an integer value with @Min annotation. The user input must be equal to or greater than this value.

**@Max annotation** - It is required to pass an integer value with @Max annotation. The user input must be equal to or smaller than this value.

Spring MVC Number Validation Example

Add dependencies to pom.xml file.

**pom.xml**

<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->

**<dependency>**

**<groupId>**org.springframework**</groupId>**

**<artifactId>**spring-webmvc**</artifactId>**

**<version>**5.1.1.RELEASE**</version>**

**</dependency>**

<!-- https://mvnrepository.com/artifact/org.apache.tomcat/tomcat-jasper -->

**<dependency>**

**<groupId>**org.apache.tomcat**</groupId>**

**<artifactId>**tomcat-jasper**</artifactId>**

**<version>**9.0.12**</version>**

**</dependency>**

    <!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->

**<dependency>**

**<groupId>**javax.servlet**</groupId>**

**<artifactId>**servlet-api**</artifactId>**

**<version>**3.0-alpha-1**</version>**

**</dependency>**

<!-- https://mvnrepository.com/artifact/javax.servlet/jstl -->

**<dependency>**

**<groupId>**javax.servlet**</groupId>**

**<artifactId>**jstl**</artifactId>**

**<version>**1.2**</version>**

**</dependency>**

 <!-- https://mvnrepository.com/artifact/org.hibernate.validator/hibernate-validator -->

**<dependency>**

**<groupId>**org.hibernate.validator**</groupId>**

**<artifactId>**hibernate-validator**</artifactId>**

**<version>**6.0.13.Final**</version>**

**</dependency>**

Create the bean class

**Employee.java**

**package** com.javatpoint;

**import** javax.validation.constraints.Max;

**import** javax.validation.constraints.Min;

**import** javax.validation.constraints.Size;

**public** **class** Employee {

**private** String name;

    @Size(min=1,message="required")

**private** String pass;

    @Min(value=18, message="must be equal or greater than 18")

    @Max(value=45, message="must be equal or less than 45")

**private** **int** age;

**public** String getName() {

**return** name;

    }

**public** **void** setName(String name) {

**this**.name = name;

    }

**public** String getPass() {

**return** pass;

    }

**public** **void** setPass(String pass) {

**this**.pass = pass;

    }

**public** **int** getAge() {

**return** age;

    }

**public** **void** setAge(**int** age) {

**this**.age = age;

    }

}

Create the controller class

**EmployeeController.java**

**package** com.javatpoint;

**import** javax.validation.Valid;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.ui.Model;

**import** org.springframework.validation.BindingResult;

**import** org.springframework.web.bind.annotation.ModelAttribute;

**import** org.springframework.web.bind.annotation.RequestMapping;

@Controller

**public** **class** EmployeeController {

    @RequestMapping("/hello")

**public** String display(Model m)

    {

        m.addAttribute("emp", **new** Employee());

**return** "viewpage";

    }

    @RequestMapping("/helloagain")

**public** String submitForm( @Valid @ModelAttribute("emp") Employee e, BindingResult br)

    {

**if**(br.hasErrors())

        {

**return** "viewpage";

        }

**else**

        {

**return** "final";

        }

    }

}

Provide the entry of controller in the web.xml file

**web.xml**

**<?xml** version="1.0" encoding="UTF-8"**?>**

**<web-app** xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://java.sun.com/xml/ns/javaee" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd" id="WebApp\_ID" version="3.0"**>**

**<display-name>**SpringMVC**</display-name>**

**<servlet>**

**<servlet-name>**spring**</servlet-name>**

**<servlet-class>**org.springframework.web.servlet.DispatcherServlet**</servlet-class>**

**<load-on-startup>**1**</load-on-startup>**

**</servlet>**

**<servlet-mapping>**

**<servlet-name>**spring**</servlet-name>**

**<url-pattern>**/**</url-pattern>**

**</servlet-mapping>**

**</web-app>**

Define the bean in the xml file

**spring-servlet.xml**

**<?xml** version="1.0" encoding="UTF-8"**?>**

**<beans** xmlns="http://www.springframework.org/schema/beans"

    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

    xmlns:context="http://www.springframework.org/schema/context"

    xmlns:mvc="http://www.springframework.org/schema/mvc"

    xsi:schemaLocation="

        http://www.springframework.org/schema/beans

        http://www.springframework.org/schema/beans/spring-beans.xsd

        http://www.springframework.org/schema/context

        http://www.springframework.org/schema/context/spring-context.xsd

        http://www.springframework.org/schema/mvc

        http://www.springframework.org/schema/mvc/spring-mvc.xsd"**>**

    <!-- Provide support for component scanning -->

**<context:component-scan** base-package="com.javatpoint" **/>**

    <!--Provide support for conversion, formatting and validation -->

**<mvc:annotation-driven/>**

    <!-- Define Spring MVC view resolver -->

**<bean** id="viewResolver" class="org.springframework.web.servlet.view.InternalResourceViewResolver"**>**

**<property** name="prefix" value="/WEB-INF/jsp/"**></property>**

**<property** name="suffix" value=".jsp"**></property>**

**</bean>**

**</beans>**

Create the requested page

**index.jsp**

**<**%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %**>**

**<html>**

**<body>**

**<a** href="hello"**>**Click here...**</a>**

**</body>**

**</html>**

Create the other view components

**viewpage.jsp**

**<**%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %**>**

**<html>**

**<head>**

**<style>**

.error{color:red}

**</style>**

**</head>**

**<body>**

**<form:form** action="helloagain" modelAttribute="emp"**>**

Username: **<form:input** path="name"**/>** **<br><br>**

Password: **<form:password** path="pass"**/>**

**<form:errors** path="pass" cssClass="error"**/><br><br>**

Age: **<form:input** path="age"**/>**

**<form:errors** path="age" cssClass="error"**/><br><br>**

**<input** type="submit" value="submit"**>**

**</form:form>**

**</body>**

**</html>**

**final.jsp**

**<html>**

**<body>**

Username: ${param.name} **<br>**

Password: ${param.pass} **<br>**

Age: ${param.age } **<br>**

**</body>**

**</html>**

**Output:**

  
  
  
  
  
