**《Spring Boot 2.x》**

**表单提交与服务器端数据校验**

## 课程主要内容

* MVC架构思想
* 使用STS构建SpringBoot项目
* 使用SpringBoot构建Mvc web项目
* MVCWeb项目中的注入
* 热部署

# 静态资源访问

src/main/resources/static

src/main/webapp

# 视图层整合

## Jsp

### Pom

<!-- jstl -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

</dependency>

<!-- jasper -->

<dependency>

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

<artifactId>tomcat-embed-jasper</artifactId>

<scope>provided</scope>

</dependency>

### Properties

spring.mvc.view.prefix=/WEB-INF/jsp/

spring.mvc.view.suffix=.jsp

### jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Insert title here</title>

</head>

<body>

<table border="1" align="center" width="50%">

<tr>

<th>ID</th>

<th>Name</th>

<th>Age</th>

</tr>

<c:forEach items="${list }" var="user">

<tr>

<td>${user.userid }</td>

<td>${user.username }</td>

<td>${user.userage }</td>

</tr>

</c:forEach>

</table>

</body>

</html>

### Controller

@Controller

public class UserController {

/\*

\* 处理请求，产生数据

\*/

@RequestMapping("/showUser")

public String showUser(Model model){

List<Users> list = new ArrayList<>();

list.add(new Users(1,"张三",20));

list.add(new Users(2,"李四",22));

list.add(new Users(3,"王五",24));

//需要一个Model对象

model.addAttribute("list", list);

//跳转视图

return "userList";

}

# 整合DAO层

## Spring-data-jpa

## Entity

<h1>User list</h1>

<table>

<tr>

<th>NAME</th>

<th>loginName</th>

<th>nickName</th>

</tr>

<tr th:each=*"city : ${list}"*>

<td th:text=*"${city.id}"*>id</td>

<td th:text=*"${city.name}"*>loginName</td>

</tr>

</table>

<p>

<a href=*"../home.html"* th:href=*"@{/}"*>Return to home</a>

</p>

## Repository

**public** **interface** CityRepository **extends** JpaRepository<City, Integer> {

}

## Properties

##端口号

server.port=8888

##数据库配置

##数据库地址

spring.datasource.url=jdbc:mysql://localhost:3306/erp?characterEncoding=utf8&useSSL=false&serverTimezone=UTC

##数据库用户名

spring.datasource.username=root

##数据库密码

spring.datasource.password=840416

##数据库驱动

spring.datasource.driver-class-name=com.mysql.jdbc.Driver

##validate 加载hibernate时，验证创建数据库表结构

##create 每次加载hibernate，重新创建数据库表结构，这就是导致数据库表数据丢失的原因。

##create-drop 加载hibernate时创建，退出是删除表结构

##update 加载hibernate自动更新数据库结构

##validate 启动时验证表的结构，不会创建表

##none 启动时不做任何操作

#spring.jpa.hibernate.ddl-auto=validate

##控制台打印sql

spring.jpa.show-sql=true

spring.devtools.restart.enabled: true

spring.thymeleaf.cache=false

spring.thymeleaf.encoding=UTF-8

spring.http.encoding.force=true

spring.http.encoding.charset=UTF-8

spring.http.encoding.enabled=true

server.tomcat.uri-encoding=UTF-8

spring.mvc.date-format=yyyy-MM-dd

## pom

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-thymeleaf</artifactId>

</dependency>

## Html

<h1>User list</h1>

<table>

<tr>

<th>NAME</th>

<th>loginName</th>

<th>nickName</th>

</tr>

<tr th:each=*"city : ${list}"*>

<td th:text=*"${city.id}"*>id</td>

<td th:text=*"${city.name}"*>loginName</td>

</tr>

</table>

<p>

<a href=*"../home.html"* th:href=*"@{/}"*>Return to home</a>

</p>