

课程目标

内容定位

- 1. MVC顶层设计
- 2. 业务代码实现
- 3. 定制模板页面
- 4. 运行效果演示

课程目标

- 1、高仿真手写Spring MVC。
- 2、搭建基本框架，满足核心功能。

内容定位

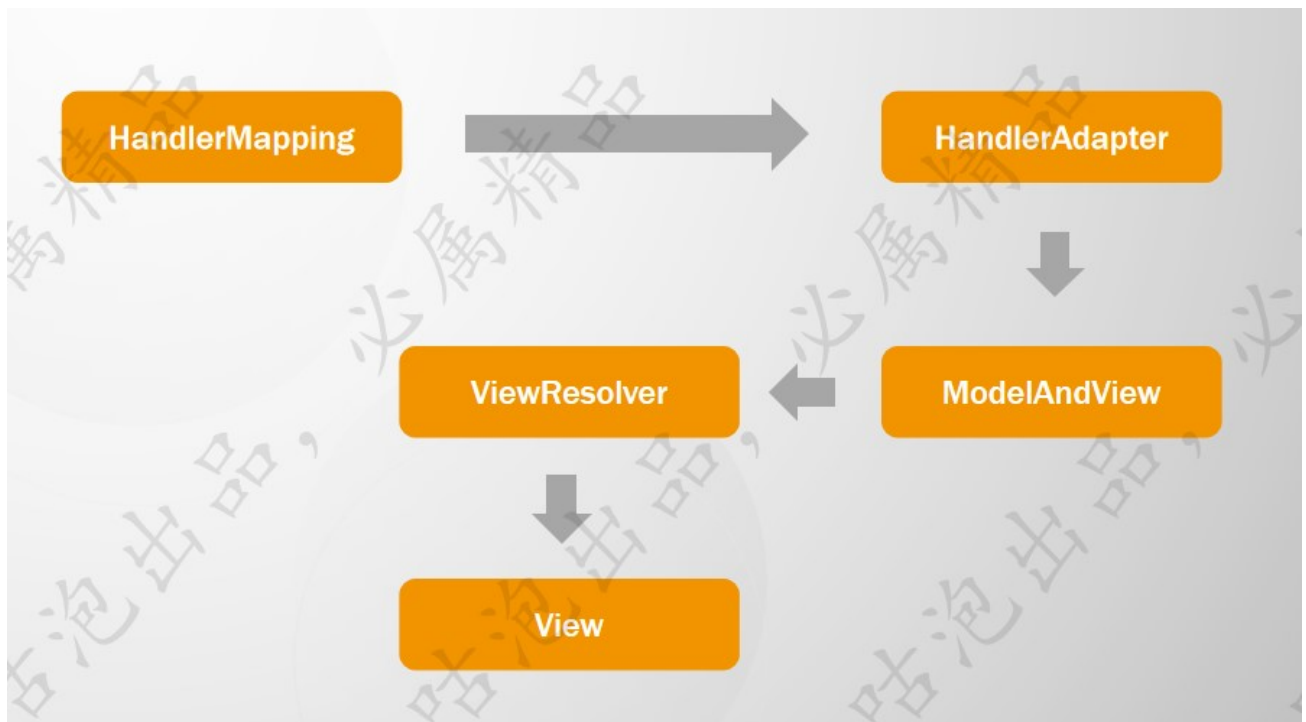
在完全掌握Spring系统结构、实现原理，在理解设计模式的基础上，自己动手写一个高仿真版本的Spring框架，以达到透彻理解Spring的目的，感受作者创作意图。

1. MVC顶层设计

MVC九大组件

序号	组件名	解释
1	MultipartResolver	多文件上传的组件
2	LocaleResolver	本地语言环境
3	ThemeResolver	主题模板处理器
4	HandlerMapping	保存Url映射关系
5	HandlerAdapter	动态参数适配器
6	HandlerExceptionResolver	异常拦截器
7	RequestToViewNameTranslator	视图提取器，从request中获取viewName
8	ViewResolvers	视图转换器，模板引擎
9	FlashMapManager	参数缓存器

Spring MVC 核心组件执行流程



MyDispatcherServlet 请求调度

...

```
1 package cn.sitedev.spring.framework.webmvc.servlet;
2
3 import cn.sitedev.spring.framework.annotation.MyController;
4 import cn.sitedev.spring.framework.annotation.MyRequestMapping;
5 import cn.sitedev.spring.framework.context.MyApplicationContext;
6
7 import javax.servlet.ServletConfig;
8 import javax.servlet.ServletException;
9 import javax.servlet.http.HttpServlet;
10 import javax.servlet.http.HttpServletRequest;
11 import javax.servlet.http.HttpServletResponse;
12 import java.io.File;
13 import java.io.IOException;
14 import java.lang.reflect.Method;
15 import java.util.*;
16 import java.util.regex.Matcher;
17 import java.util.regex.Pattern;
18
19 public class MyDispatcherServlet extends HttpServlet {
20     private static final String CONTEXT_CONFIG_LOCATION = "contextConfigLocation";
21
22     private MyApplicationContext context;
23
24     private List<MyHandlerMapping> handlerMappings = new ArrayList<>();
```

```

25
26     private Map<MyHandlerMapping, MyHandlerAdapter> handlerAdapters = new HashMap<>();
27
28     private List<MyViewResolver> viewResolvers = new ArrayList<>();
29
30     @Override
31     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws Servl
32         this.doPost(req, resp);
33     }
34
35     @Override
36     protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws Serv
37         try {
38             this.doDispatch(req, resp);
39         } catch (Exception e) {
40             try {
41                 MyModelAndView mav500 = new MyModelAndView("500");
42                 Map<String, Object> model500 = new HashMap<>();
43                 model500.put("detail", e.getMessage());
44                 model500.put("stackTrace", Arrays.toString(e.getStackTrace()));
45                 mav500.setModel(model500);
46                 processDispatchResult(req, resp, mav500);
47             } catch (Exception exception) {
48                 exception.printStackTrace();
49                 resp.getWriter().write("500 Exception, Details:\r\n" + Arrays.toString(
50             }
51         }
52     }
53
54     private void doDispatch(HttpServletRequest request, HttpServletResponse response) t
55         // 1. 通过从request中拿到URL, 去匹配一个HandlerMapping
56         MyHandlerMapping handler = getHandler(request);
57
58         if (handler == null) {
59             processDispatchResult(request, response, new MyModelAndView("404"));
60             return;
61         }
62
63         // 2. 准备调用前的参数
64         MyHandlerAdapter handlerAdapter = getHandlerAdapter(handler);
65
66         // 3. 真正的调用方法, 返回ModelAndView存储了要传给页面的值, 和页面模板的名称
67         MyModelAndView modelAndView = handlerAdapter.handle(request, response, handler)

```

```

68
69 // 这一步才是真正的输出
70 processDispatchResult(request, response, modelAndView);
71 }
72
73 private void processDispatchResult(HttpServletRequest request, HttpServletResponse
74                                     MyModelAndView modelAndView) throws Exception {
75     // 把给我的ModelAndView变成HTML, OutputStream, json, freemarker, velocity
76     if (modelAndView == null) {
77         return;
78     }
79     // 如果ModelAndView不为null, 怎么办?
80     if (this.viewResolvers.isEmpty()) {
81         return;
82     }
83
84     for (MyViewResolver viewResolver : this.viewResolvers) {
85         MyView view = viewResolver.resolveViewName(modelAndView.getViewName(), null
86         view.render(modelAndView.getModel(), request, response);
87         return;
88     }
89 }
90
91 private MyHandlerAdapter getHandlerAdapter(MyHandlerMapping handler) {
92     if (this.handlerAdapters.isEmpty()) {
93         return null;
94     }
95     MyHandlerAdapter handlerAdapter = this.handlerAdapters.get(handler);
96     if (handlerAdapter.supports(handler)) {
97         return handlerAdapter;
98     }
99     return null;
100 }
101
102 private MyHandlerMapping getHandler(HttpServletRequest request) {
103     if (this.handlerMappings.isEmpty()) {
104         return null;
105     }
106     String url = request.getRequestURI();
107     String contextPath = request.getContextPath();
108     url = url.replace(contextPath, "").replaceAll("/+", "/");
109
110     for (MyHandlerMapping handlerMapping : this.handlerMappings) {

```

```

111         try {
112             Matcher matcher = handlerMapping.getPattern().matcher(url);
113             // 如果没有匹配上继续下一个匹配
114             if (!matcher.matches()) {
115                 continue;
116             }
117             return handlerMapping;
118         } catch (Exception e) {
119             throw e;
120         }
121     }
122     return null;
123 }
124
125 @Override
126 public void init(ServletConfig config) throws ServletException {
127     // 1. 初始化ApplicationContext
128     context = new MyApplicationContext(config.getInitParameter(CONTEXT_CONFIG_LOCAT
129     // 2. 初始化Spring MVC 九大组件
130     initStrategies(context);
131 }
132
133 // 初始化策略
134 private void initStrategies(MyApplicationContext context) {
135     // handlerMapping, 必须实现
136     initHandlerMappings(context);
137     // 初始化参数适配器, 必须实现
138     initHandlerAdapters(context);
139     // 初始化视图转换器, 必须实现
140     initViewResolvers(context);
141 }
142
143 private void initViewResolvers(MyApplicationContext context) {
144     // 拿到模板的存放目录
145     String templateRoot = context.getConfig().getProperty("templateRoot");
146     String templateRootPath =
147         this.getClass().getClassLoader().getResource(templateRoot).getFile();
148
149     File templateRootDir = new File(templateRootPath);
150     String[] templates = templateRootDir.list();
151     for (int i = 0; i < templates.length; i++) {
152         // 这里主要为了兼容多模板, 所以模仿Spring用List保存
153         // 这里代码简化了, 其实只要一个模板就可以搞定

```

```

154         // 只是为了仿真，所以还是搞了个List
155         this.viewResolvers.add(new MyViewResolver(templateRoot));
156     }
157 }
158
159 private void initHandlerAdapters(MyApplicationContext context) {
160     // 把一个request请求变成handler，参数都是字符串，自动配到handler中的形参
161     // 可想而知，它要拿到HandlerMapping才能干活
162     // 就意味着，有几个HandlerMapping就有几个HandlerAdapter
163     for (MyHandlerMapping handlerMapping : this.handlerMappings) {
164         this.handlerAdapters.put(handlerMapping, new MyHandlerAdapter());
165     }
166 }
167
168 private void initHandlerMappings(MyApplicationContext context) {
169     String[] beanNames = context.getBeanDefinitionNames();
170
171     try {
172         for (String beanName : beanNames) {
173             Object controller = context.getBean(beanName);
174
175             Class<?> clazz = controller.getClass();
176
177             if (!clazz.isAnnotationPresent(MyController.class)) {
178                 continue;
179             }
180
181             String baseUrl = "";
182             // 获取Controller的url配置
183             if (clazz.isAnnotationPresent(MyRequestMapping.class)) {
184                 MyRequestMapping requestMapping = clazz.getAnnotation(MyRequestMapping.class);
185                 baseUrl = requestMapping.value();
186             }
187
188             // 获取Method的url配置
189             Method[] methods = clazz.getMethods();
190             for (Method method : methods) {
191                 // 没有加RequestMapping注解的直接忽略
192                 if (!method.isAnnotationPresent(MyRequestMapping.class)) {
193                     continue;
194                 }
195                 // 映射URL
196                 MyRequestMapping requestMapping = method.getAnnotation(MyRequestMapping.class);

```

```

197
198         String regex = ("/" + baseUrl + "/" + requestMapping.value().replace(
199             , ".*")).replaceAll("/+", "/");
200
201         Pattern pattern = Pattern.compile(regex );
202
203         this.handlerMappings.add(new MyHandlerMapping(pattern, controller,
204             System.out.println("Mapped " + regex + ", " + method));
205     }
206
207 }
208 } catch (Exception e) {
209     e.printStackTrace();
210 }
211 }
212 }

```

MyHandlerMapping 请求映射

```

1 package cn.sitedev.spring.framework.webmvc.servlet;
2
3 import lombok.AllArgsConstructor;
4 import lombok.Data;
5 import lombok.NoArgsConstructor;
6
7 import java.lang.reflect.Method;
8 import java.util.regex.Pattern;
9
10 @Data
11 @AllArgsConstructor
12 @NoArgsConstructor
13 public class MyHandlerMapping {
14     // URL的正则匹配
15     private Pattern pattern;
16     // 保存方法对应的实例
17     private Object controller;
18     // 保存映射的方法
19     private Method method;
20 }

```

```

1 package cn.sitedev.spring.framework.webmvc.servlet;
2
3 import cn.sitedev.spring.framework.annotation.MyRequestParam;
4
5 import javax.servlet.http.HttpServletRequest;
6 import javax.servlet.http.HttpServletResponse;
7 import java.lang.annotation.Annotation;
8 import java.lang.reflect.InvocationTargetException;
9 import java.util.Arrays;
10 import java.util.HashMap;
11 import java.util.Map;
12
13 public class MyHandlerAdapter {
14     public boolean supports(Object handler) {
15         return handler instanceof MyHandlerMapping;
16     }
17
18     public ModelAndView handle(HttpServletRequest request, HttpServletResponse response,
19                               Object handler) throws InvocationTargetException,
20                               IllegalAccessException {
21         MyHandlerMapping handlerMapping = (MyHandlerMapping) handler;
22
23         // 把 方法的形参列表和request的参数列表所在顺序一一对应
24         Map<String, Integer> paramIndexMapping = new HashMap<>();
25
26         // 提取方法中加了注解的参数
27         // 把方法上的注解拿到，得到的是一个二维数组
28         // 因为一个参数可以有多个注解，而一个方法又有多个参数
29         Annotation[][] pa = handlerMapping.getMethod().getParameterAnnotations();
30         for (int i = 0; i < pa.length; i++) {
31             for (Annotation a : pa[i]) {
32                 if (a instanceof MyRequestParam) {
33                     String paramName = ((MyRequestParam) a).value();
34                     if (!"".equals(paramName.trim())) {
35                         paramIndexMapping.put(paramName, i);
36                     }
37                 }
38             }
39         }
40
41         // 提取方法中的request和response参数

```



```

43     for (int i = 0; i < paramsTypes.length; i++) {
44         Class<?> type = paramsTypes[i];
45         if (type == HttpServletRequest.class || type == HttpServletResponse.class)
46             paramIndexMapping.put(type.getName(), i);
47     }
48 }
49
50 // 获得方法的形参列表
51 Map<String, String[]> params = request.getParameterMap();
52
53 // 实参列表
54 Object[] paramValues = new Object[paramsTypes.length];
55
56 for (Map.Entry<String, String[]> param : params.entrySet()) {
57     String value =
58         Arrays.toString(param.getValue()).replaceAll("\\\\[|\\\\]", "").replace(
59             ", ", ",");
60     if (!paramIndexMapping.containsKey(param.getKey())) {
61         continue;
62     }
63     int index = paramIndexMapping.get(param.getKey());
64     paramValues[index] = caseStringValue(value, paramsTypes[index]);
65 }
66
67 if (paramIndexMapping.containsKey(HttpServletRequest.class.getName())) {
68     int reqIndex = paramIndexMapping.get(HttpServletRequest.class.getName());
69     paramValues[reqIndex] = request;
70 }
71
72 if (paramIndexMapping.containsKey(HttpServletResponse.class.getName())) {
73     int respIndex = paramIndexMapping.get(HttpServletResponse.class.getName());
74     paramValues[respIndex] = response;
75 }
76
77 Object result = handlerMapping.getMethod().invoke(handlerMapping.getController(
78     paramValues));
79 if (result == null || result instanceof Void) {
80     return null;
81 }
82
83 boolean isModelAndView = handlerMapping.getMethod().getReturnType() == ModelAndView.class;
84 if (isModelAndView) {
85     return (MyModelAndView) result;

```

```

86     }
87     return null;
88 }
89
90 private Object caseStringValue(String value, Class<?> paramsType) {
91     if (String.class == paramsType) {
92         return value;
93     }
94     // 如果还有double或者其他类型，继续加if
95     // 这时候，我们应该想到策略模式
96     // 在这里暂时不实现
97     if (Integer.class == paramsType) {
98         return Integer.valueOf(value);
99     }
100    if (Double.class == paramsType) {
101        return Double.valueOf(value);
102    }
103    if (value != null) {
104        return value;
105    }
106    return null;
107 }
108 }

```

MyModelAndView 页面数据封装

```

1  package cn.sitedev.spring.framework.webmvc.servlet;
2
3  import lombok.AllArgsConstructor;
4  import lombok.Data;
5  import lombok.NoArgsConstructor;
6
7  import java.util.Map;
8
9  @Data
10 @AllArgsConstructor
11 @NoArgsConstructor
12 public class MyModelAndView {
13     private String viewName;
14     private Map<String, ?> model;
15

```

```

16     public MyModelAndView(String viewName) {
17         this.viewName = viewName;
18     }
19 }

```

MyViewResolver 视图解析器

```

1 package cn.sitedev.spring.framework.webmvc.servlet;
2
3 import java.io.File;
4 import java.util.Locale;
5
6 public class MyViewResolver {
7     private static final String DEFAULT_TEMPLATE_SUFFIX = ".html";
8
9     private File templateRootDir;
10
11     public MyViewResolver(String templateRoot) {
12         String templateRootPath =
13             this.getClass().getClassLoader().getResource(templateRoot).getFile();
14         this.templateRootDir = new File(templateRootPath);
15     }
16
17     public MyView resolveViewName(String viewName, Locale locale) throws Exception {
18         if (viewName == null || "".equals(viewName.trim())) {
19             return null;
20         }
21         viewName = viewName.endsWith(DEFAULT_TEMPLATE_SUFFIX) ? viewName :
22             (viewName + DEFAULT_TEMPLATE_SUFFIX);
23         File templateFile = new File((templateRootDir.getPath() + "/" + viewName).replace(
24             , "/"));
25         return new MyView(templateFile);
26     }
27 }

```

MyView 自定义模板引擎

```

1 package cn.sitedev.spring.framework.webmvc.servlet;
2
3 import java.io.IOException;

```

```

4 import lombok.Data;
5 import lombok.NoArgsConstructor;
6
7 import javax.servlet.http.HttpServletRequest;
8 import javax.servlet.http.HttpServletResponse;
9 import java.io.File;
10 import java.io.RandomAccessFile;
11 import java.util.Map;
12 import java.util.regex.Matcher;
13 import java.util.regex.Pattern;
14
15 @Data
16 @AllArgsConstructor
17 @NoArgsConstructor
18 public class MyView {
19     private File viewFile;
20
21     public void render(Map<String, ?> model, HttpServletRequest request,
22                       HttpServletResponse response) throws Exception {
23         StringBuffer stringBuffer = new StringBuffer();
24
25         RandomAccessFile randomAccessFile = new RandomAccessFile(this.viewFile, "r");
26         String line = null;
27         while ((line = randomAccessFile.readLine()) != null) {
28             line = new String(line.getBytes("ISO-8859-1"), "UTF-8");
29             Pattern pattern = Pattern.compile("¥\\{[^\\}]+\\}", Pattern.CASE_INSENSITIVE);
30             Matcher matcher = pattern.matcher(line);
31             while (matcher.find()) {
32                 String paramName = matcher.group();
33                 paramName = paramName.replaceAll("¥\\{[^\\}]+\\}", "");
34                 Object paramValue = model.get(paramName);
35                 if (paramValue == null) {
36                     continue;
37                 }
38                 line = matcher.replaceFirst(makeStringForRegExp(paramValue.toString()));
39                 matcher = pattern.matcher(line);
40             }
41             stringBuffer.append(line);
42         }
43         response.setCharacterEncoding("UTF-8");
44         response.getWriter().write(stringBuffer.toString());
45
46     }

```

```

47
48 // 处理特殊字符
49 private String makeStringForRegExp(String str) {
50     return str
51         .replace("\\", "\\").replace("*", "\\*")
52         .replace("+", "\\+").replace("|", "\\|")
53         .replace("{", "\\{").replace("}", "\\}")
54         .replace("(", "\\(").replace(")", "\\)")
55         .replace("^", "\\^").replace("$", "\\$")
56         .replace("[", "\\[").replace("]", "\\]")
57         .replace("?", "\\?").replace(",", "\\,")
58         .replace(".", "\\.").replace("&", "\\&");
59 }
60 }

```

2. 业务代码实现

IQueryService 查询业务接口定义

```

1 package cn.sitedev.demo.service;
2
3 /**
4  * 查询业务
5  */
6 public interface IQueryService {
7     // 查询
8     String query(String name);
9 }

```

QueryService 查询处理业务逻辑

```

1 package cn.sitedev.demo.service.impl;
2
3 import cn.sitedev.demo.service.IQueryService;
4 import cn.sitedev.spring.framework.annotation.MyService;
5
6 import java.text.SimpleDateFormat;
7 import java.util.Date;
8

```

```

9  /**
10 * 查询业务
11 */
12 @MyService
13 public class QueryService implements IQueryService {
14     @Override
15     public String query(String name) {
16         SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
17         String time = sdf.format(new Date());
18         String json = "{ name: \"" + name + "\", time: \"" + time + "\"}";
19
20         System.out.println("这是在业务方法中打印的:" + json);
21         return json;
22     }
23 }

```

IModifyService增、删、改业务接口定义

```

1  package cn.sitedev.demo.service;
2
3  /**
4   * 增删改业务
5   */
6  public interface IModifyService {
7      // 增加
8      String add(String name, String addr);
9
10     // 修改
11     String edit(String id, String name);
12
13     // 删除
14     String remove(Integer id);
15 }

```

ModifyService增、删、改业务逻辑实现

```

1  package cn.sitedev.demo.service.impl;
2
3  import cn.sitedev.demo.service.IModifyService;
4

```

```

5  /**
6   * 增删改业务
7   */
8  public class ModifyService implements IModifyService {
9      @Override
10     public String add(String name, String addr) {
11         return "ModifyService add: name = " + name + ", addr = " + addr;
12     }
13
14     @Override
15     public String edit(String id, String name) {
16         return "ModifyService edit: id = " + id + ", name = " + name;
17     }
18
19     @Override
20     public String remove(Integer id) {
21         return "ModifyService remove: id = " + id;
22     }
23 }

```

MyAction数据逻辑处理

```

1  package cn.sitedev.demo.action;
2
3  import cn.sitedev.demo.service.IModifyService;
4  import cn.sitedev.demo.service.IQueryService;
5  import cn.sitedev.spring.framework.annotation.MyAutowired;
6  import cn.sitedev.spring.framework.annotation.MyController;
7  import cn.sitedev.spring.framework.annotation.MyRequestMapping;
8  import cn.sitedev.spring.framework.annotation.MyRequestParam;
9  import cn.sitedev.spring.framework.webmvc.servlet.MyModelAndView;
10
11 import javax.servlet.http.HttpServletRequest;
12 import javax.servlet.http.HttpServletResponse;
13 import java.io.IOException;
14
15 /**
16  * 公布接口url
17  */
18 @MyController
19 @MyRequestMapping("/web")

```

```
20 public class MyAction {
21     @MyAutowired
22     private IQueryService queryService;
23
24     @MyAutowired
25     private IModifyService modifyService;
26
27     @MyRequestMapping("/query.json")
28     public MyModelAndView query(HttpServletRequest request, HttpServletResponse response,
29                                 @MyRequestParam("name") String name) {
30         String result = queryService.query(name);
31         return out(response, result);
32     }
33
34     @MyRequestMapping("/add*.json")
35     public MyModelAndView add(HttpServletRequest request, HttpServletResponse response,
36                               @MyRequestParam("name") String name,
37                               @MyRequestParam("addr") String addr) {
38         String result = modifyService.add(name, addr);
39         return out(response, result);
40     }
41
42     @MyRequestMapping("/remove.json")
43     public MyModelAndView remve(HttpServletRequest request, HttpServletResponse response,
44                                 @MyRequestParam("id") Integer id) {
45         String result = modifyService.remove(id);
46         return out(response, result);
47     }
48
49     @MyRequestMapping("edit.json")
50     public MyModelAndView edit(HttpServletRequest request, HttpServletResponse response,
51                                @MyRequestParam("id") Integer id,
52                                @MyRequestParam("name") String name) {
53         String result = modifyService.edit(id, name);
54         return out(response, result);
55     }
56
57     private MyModelAndView out(HttpServletResponse response, String str) {
58         try {
59             response.getWriter().write(str);
60         } catch (IOException e) {
61             e.printStackTrace();
62         }
63     }
64 }
```



```
63         return null;
64     }
65 }
```

PageAction页面逻辑处理

```
1  package cn.sitedev.demo.action;
2
3  import cn.sitedev.demo.service.IQueryService;
4  import cn.sitedev.spring.framework.annotation.MyAutowired;
5  import cn.sitedev.spring.framework.annotation.MyController;
6  import cn.sitedev.spring.framework.annotation.MyRequestMapping;
7  import cn.sitedev.spring.framework.annotation.MyRequestParam;
8  import cn.sitedev.spring.framework.webmvc.servlet.MyModelAndView;
9
10 import java.util.HashMap;
11 import java.util.Map;
12
13 /**
14  * 公布接口url
15  */
16 @MyController
17 @MyRequestMapping("/")
18 public class PageAction {
19     @MyAutowired
20     private IQueryService queryService;
21
22     @MyRequestMapping("/first.html")
23     public MyModelAndView query(@MyRequestParam("teacher") String teacher) {
24         String result = queryService.query(teacher);
25         Map<String, Object> model = new HashMap<>();
26         model.put("teacher", teacher);
27         model.put("data", result);
28         model.put("token", "123456");
29         return new MyModelAndView("first.html", model);
30     }
31 }
```

3. 定制模板页面

first.html 动态展示页

```
1 <!DOCTYPE html>
2 <html lang="zh-cn">
3 <head>
4     <meta charset="utf-8">
5     <title>咕泡学院SpringMVC模板引擎演示</title>
6 </head>
7 <center>
8     <h1>大家好，我是¥{teacher}老师<br/>欢迎大家一起来探索Spring的世界</h1>
9     <h3>Hello,My name is ¥{teacher}</h3>
10    <div>¥{data}</div>
11    Token值: ¥{token}
12 </center>
13 </html>
```

404.html页面未找到提示

```
1 <!DOCTYPE html>
2 <html lang="zh-cn">
3 <head>
4     <meta charset="utf-8">
5     <title>页面去火星了</title>
6 </head>
7 <body>
8     <font size='25' color='red'>404 Not Found</font><br/><font color='green'><i>Copyrig
9 </body>
10 </html>
```

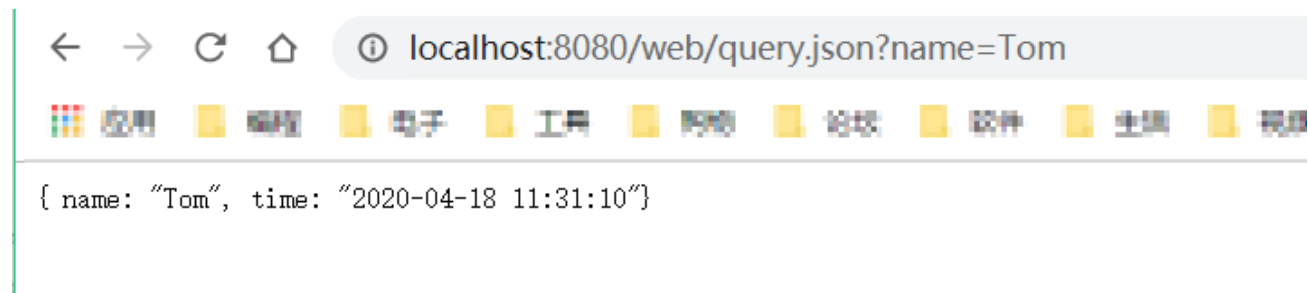
500.html 错误提示页面

```
1 <!DOCTYPE html>
2 <html lang="zh-cn">
3 <head>
4     <meta charset="utf-8">
5     <title>服务器好像累了</title>
6 </head>
7 <body>
8     <font size='25' color='red'>Internal Server Error</font><br/><font color='green'><i>Copyrig
9 </body>
```

```
9      <b>Message: ¥ {detail}</b><br/>
10     <b>StackTrace: ¥ {stackTrace}</b><br/>
11     <font color='green'><i>Copyright@GupaoEDU</i></font>
12 </body>
13 </html>
```

4. 运行效果演示

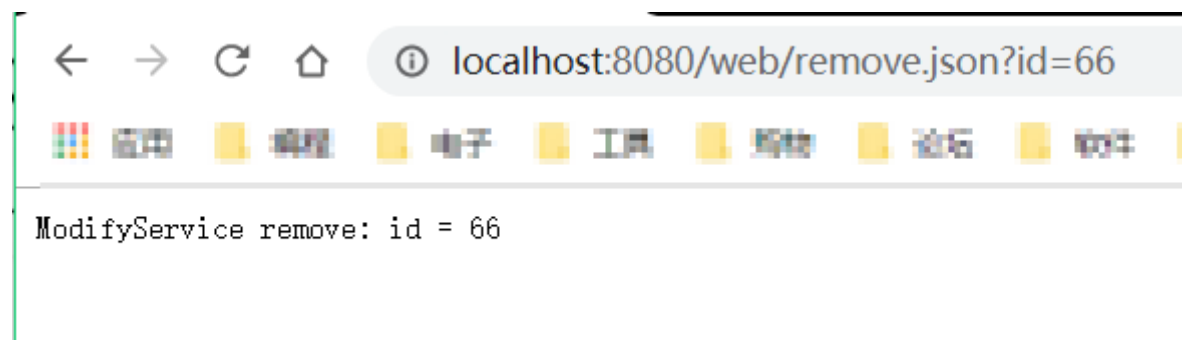
/query.json



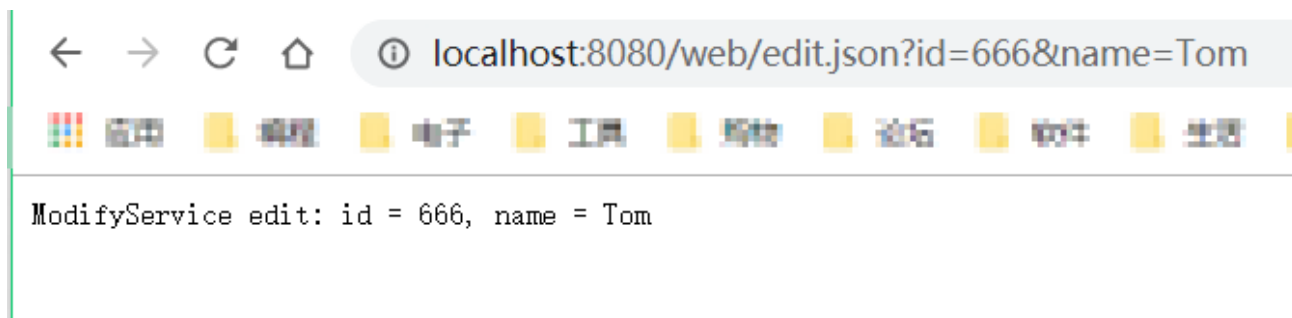
/add*.json



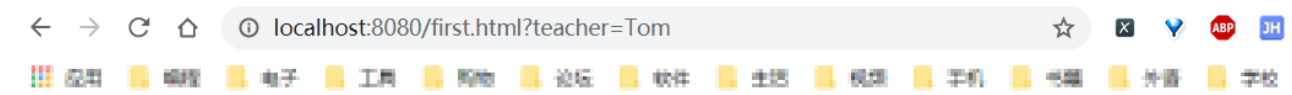
/remove.json



/edit.json



first.html

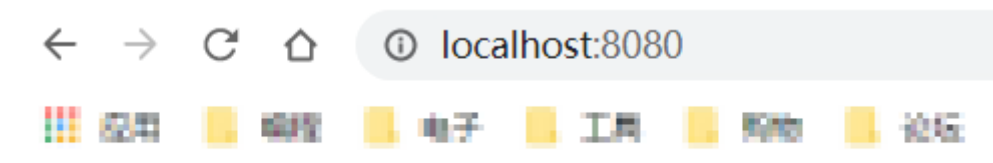


大家好，我是Tom老师
欢迎大家一起来探索Spring的世界

Hello,My name is Tom

{ name: "Tom", time: "2020-04-18 12:48:24"}
Token值：123456

404页面



404 Not Found

Copyright@GupaoEDU

500页面

500 服务器好像有点累了，需要休息一下

Message:For input string: "xxx"

StackTrace:[java.lang.NumberFormatException.forInputString(NumberFormatException.java:65),
java.lang.Integer.parseInt(Integer.java:580), java.lang.Integer.valueOf(Integer.java:766),
cn.sitedev.spring.framework.webmvc.servlet.MyHandlerAdapter.caseStringValue(MyHandlerAdapter.java:98),
cn.sitedev.spring.framework.webmvc.servlet.MyHandlerAdapter.handle(MyHandlerAdapter.java:64),
cn.sitedev.spring.framework.webmvc.servlet.MyDispatcherServlet.doDispatch(MyDispatcherServlet.java:67),
cn.sitedev.spring.framework.webmvc.servlet.MyDispatcherServlet.doPost(MyDispatcherServlet.java:38),
cn.sitedev.spring.framework.webmvc.servlet.MyDispatcherServlet.doGet(MyDispatcherServlet.java:32),
javax.servlet.http.HttpServlet.service(HttpServlet.java:622), javax.servlet.http.HttpServlet.service(HttpServlet.java:729),
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:230),
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:165),
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52),
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:192)