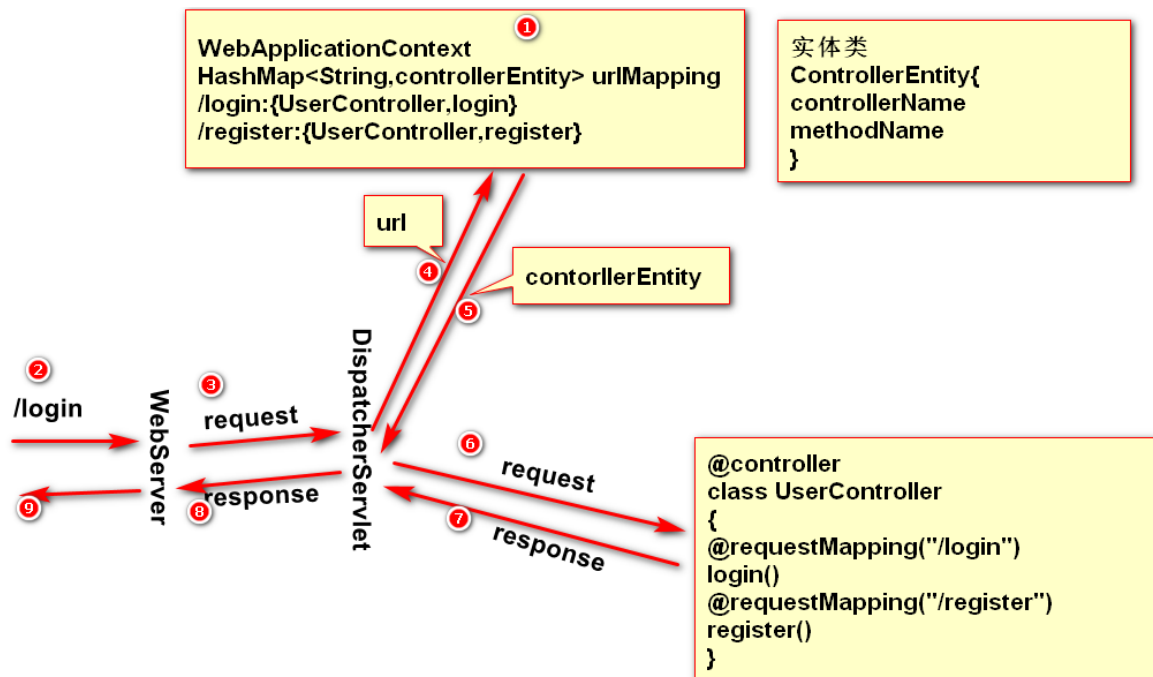
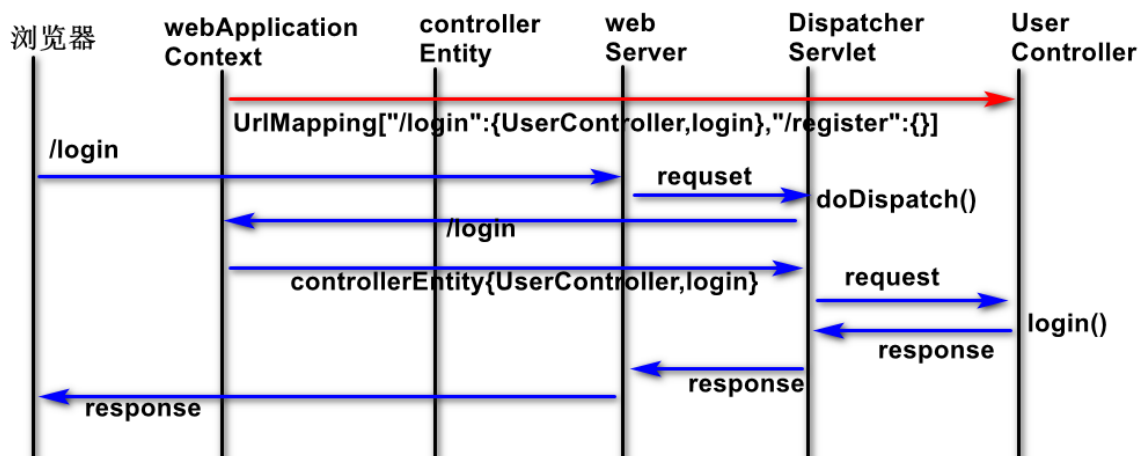


2, 手写springmvc框架

2.1 分析



2.2 伪代码



```
package javax.http
class Request{
    url,header,parameter
}
class Response{
    String responseBody
}
package org.springmvc
@interface Controller
@interface RequestMapping{
    String value()
}
```

```

class ControllerEntity{
    String controllerName
    String methodName
    boolean returnIsObject
    get(),set()
}

class WebApplicationContext{
    static HashMap<String,ControllerEntity> urlMapping;
    public void init(){
        用反射得到controller的类名，方法名，放到urlMapping
        com.tedu.project.UserController
        com.tedu.project.OrderController
        String[] controllerNames=
{"com.tedu.project.UserController","OrderController"}
        for (String controllerName:controllerNames)
        {
            Class clazz=Class.forName("com.tedu.project.UserController")
            Object controllerObject=clazz.newInstance();
            Method[] methods=clazz.getDeclaredMethods();
            for (Method method:methods){
                //判断方法有没有加@RequestMapping
                RequestMapping
requestMapping=method.getAnnotation(RequestMapping.class)
                if (requestMapping!=null){
                    String url=requestMapping.value;
                    String methodName=method.getName()

                    controllerEntity.setControllerName()
                    controllerEntity.setMethodName()
                    //判断类有没有加@RestController
                    controllerEntity.returnIsObject(true)
                    urlMapping.put(url,controllerEntity)
                }
            }
        }
    }
}

class DispatcherServlet{
    webApplicationContext=new
    public DispatcherServlet(){
        webApplicationContext.init()
    }
    public Response doDispatch(request){
        调用controller
        String url=request.getUrl()
        ControllerEntity=webApplicationContext.urlMapping.get(url)
        String controllerName=
        String methodName=
        Class clazz=Class.forName(controllerName);
        Object controllerObject=clazz.newInstance();
        Method method=clazz.getDeclaredMethod("login")
        //相当于controllerObject.method()
        Response response= method.invoke(controllerObject);
        //判断controllerEntity.returnIsObject==true
        //调用jackson把对象转成json字符串
        return response
    }
}

```

```

}
//相当于tomcat
class WebServer{
    main(){
        ServerSocket serverSocket=new ServerSocket(9090)
        while(true){
            //socket代表的是与浏览器的连接
            Socket socket= serverSocket.accept()//接收浏览器发过来的请求
            new HttpThread(socket);
        }
    }
    static HttpThread extends Thread{
        Socket socket
        HttpThread(Socket socket){

        }
        run(){
            //读取浏览器发过来的数据
            请求行/r/n
            请求头
            请求体
            一行一行读
            //装饰设计模式
            InputStream inputStream=socket.getInputStream()
            InputStreamReader inputStreamReader=new
InputStreamReader(inputStream)
            BufferedReader bufferedReader=new
BufferedReader(inputStreamReader)
            String requestLine=bufferedReader.readLine()

            //把请求交给springmvc框架处理
            //GET /login HTTP/1.1
            String[] strings=requestLine.split("\\ ")
            String url=strings[1]
            request.setURL(url)
            DispatcherServlet dispatcherServlet
            response=dispatcherServlet.doDispatch(request)
            //把controller处理的结果发给浏览器
            //响应行 http1.1 200 ok/r/n
            //响应头
            Content-Type:text/html /r/n
            Context-Length:100/r/n
            /r/n
            //响应体
            outputStream

        }
    }
}

package com.tedu.project
@Controller
class UserController{
    @RequestMapping("/login")
    public Response login(Request){}
}

```

2.3 实现

3,返回对象，把对象转成json

1,@RestController

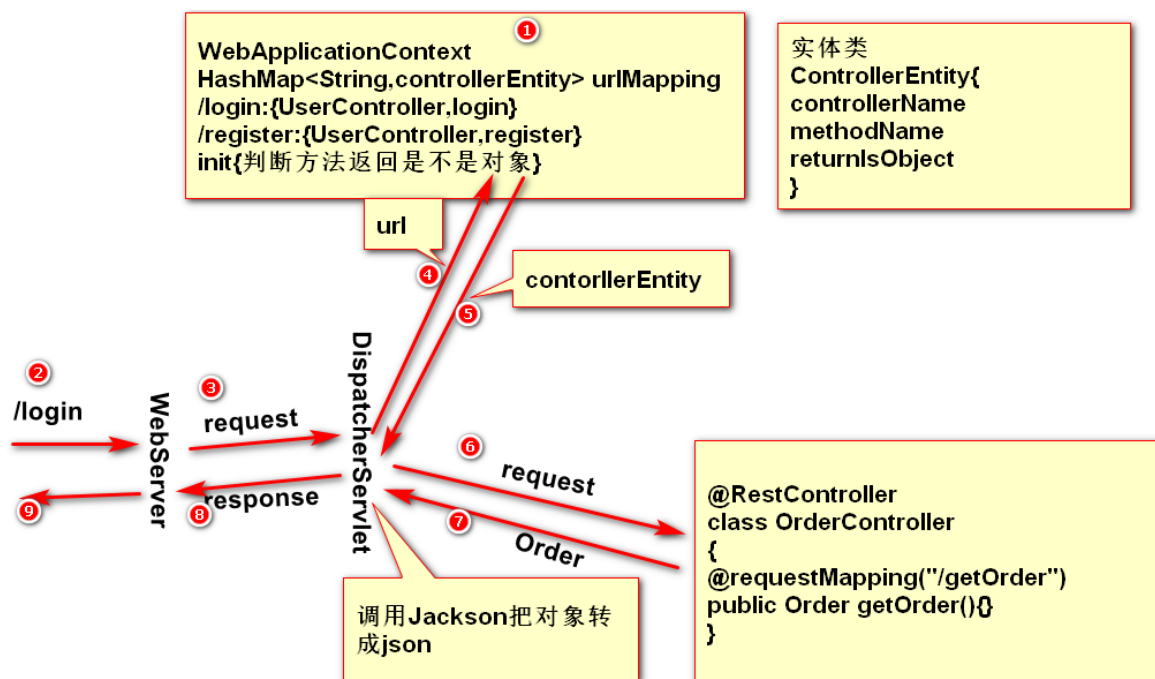
2,OrderEntity,orderController

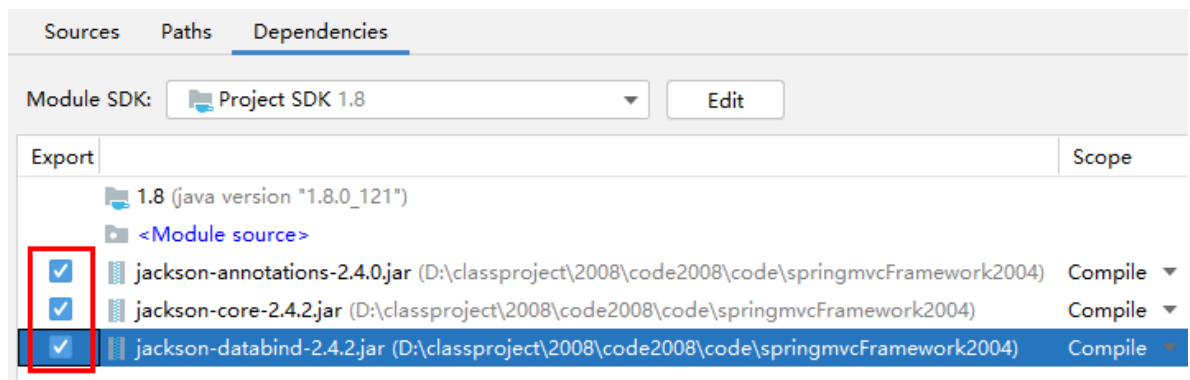
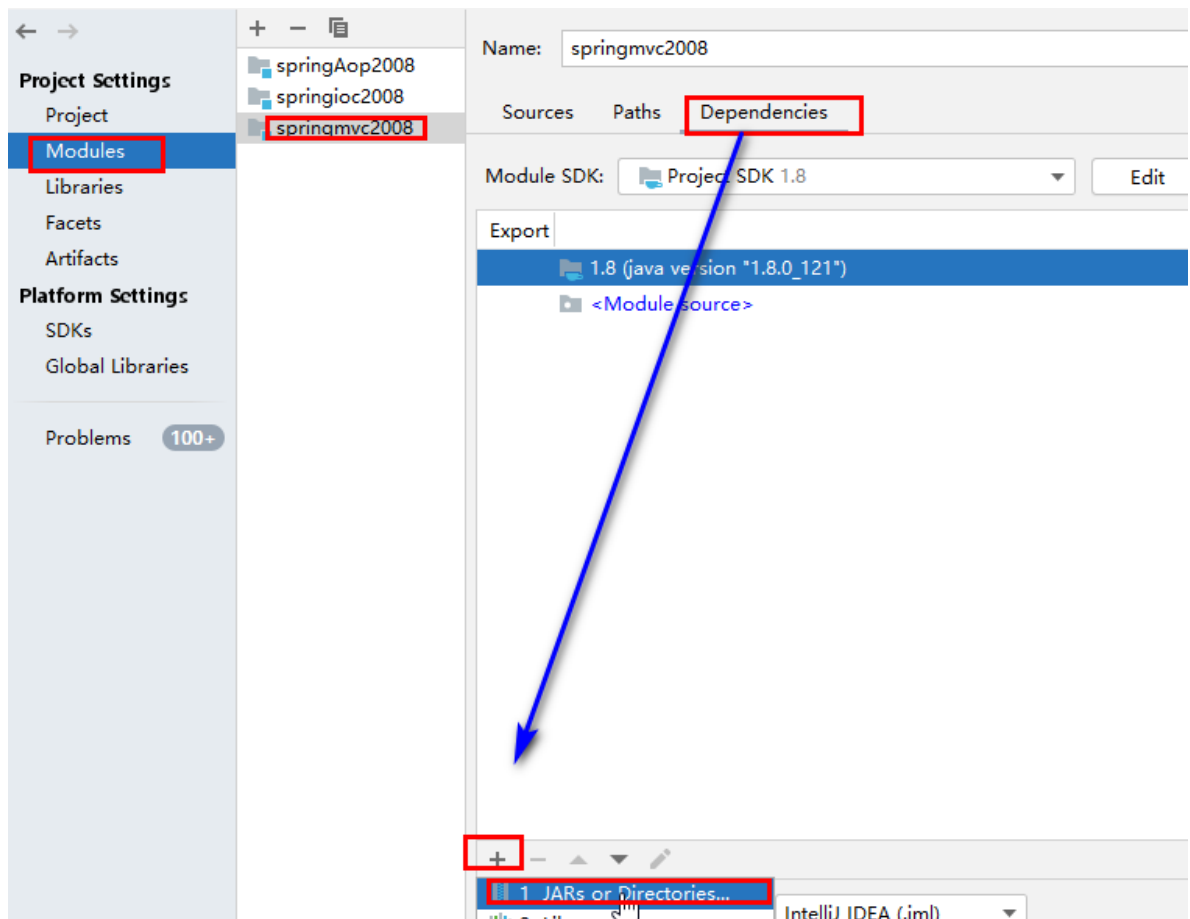
3,controllerEntity增加returnsIsObject

4,WebApplicationContext.init

controllerNames={增加orderController},controllerEntity.returnsIsObject=true

5,DispatchServlet调用方法时，判断controllerEntity.returnsIsObject==true,调用jackson把对象转成json字符串





总结

