



链滴

Spring boot + Vue 实现 WebSocket

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来源网站: [链滴](#)

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来, 搞事情, pom文件加上依赖

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-websocket</artifactId>
  <version>4.3.8.RELEASE</version>
</dependency>
```

主要有三个文件

1. WebSocketsConfig.java (WebSocket配置文件)
2. MyWebSocketInterceptor.java (可以看做是一个拦截器, `beforeHandshake`(websocket握手前), `afterHandshake`(握手之后))
3. WebSocketPushHandler.java (WebSocket一些事件)

WebSocketsConfig.java

```
package sucblog.config;
```

```
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.socket.WebSocketHandler;
import org.springframework.web.socket.config.annotation.EnableWebSocket;
import org.springframework.web.socket.config.annotation.WebSocketConfigurer;
import org.springframework.web.socket.config.annotation.WebSocketHandlerRegistry;
import org.springframework.web.socket.server.HandshakeInterceptor;
import sucblog.websocket.MyWebSocketInterceptor;
import sucblog.websocket.WebSocketPushHandler;
```

```
@Configuration
```

```
@EnableWebSocket
```

```
public class WebSocketsConfig implements WebSocketConfigurer {
```

```
    @Override
```

```
    public void registerWebSocketHandlers(WebSocketHandlerRegistry registry) {
        registry.addHandler(createWebSocketPushHandler(), "/websocketServer")
            .addInterceptors(createHandshakeInterceptor()).setAllowedOrigins("*");
        registry.addHandler(createWebSocketPushHandler(), "/sockjs/websocketServer")
            .addInterceptors(createHandshakeInterceptor()).withSockJS();
    }
```

```
    /**
```

```
     * 握手拦截器
```

```
     * @return
```

```
     */
```

```
    @Bean
```

```
    public HandshakeInterceptor createHandshakeInterceptor() {
        return new MyWebSocketInterceptor();
    }
```

```
    @Bean
```

```

    public WebSocketHandler createWebSocketPushHandler() {
        return new WebSocketPushHandler();
    }
}

```

MyWebSocketInterceptor

```
package sucblog.websocket;
```

```

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.http.server.ServerHttpRequest;
import org.springframework.http.server.ServerHttpResponse;
import org.springframework.http.server.ServletServerHttpRequest;
import org.springframework.web.socket.WebSocketHandler;
import org.springframework.web.socket.server.HandshakeInterceptor;

```

```
import java.util.Map;
```

```

public class MyWebSocketInterceptor implements HandshakeInterceptor {
    private Logger logger = LoggerFactory.getLogger(this.getClass());

```

```

    /**
     * 在握手之前执行该方法，继续握手返回true，中断握手返回false，通过map参数设置WebSocket
     session的属性
     * @param request
     * @param response
     * @param webSocketHandler
     * @param map
     * @return
     * @throws Exception
     */
    @Override
    public boolean beforeHandshake(ServerHttpRequest request, ServerHttpResponse response
, WebSocketHandler webSocketHandler, Map<String, Object> map) throws Exception {
        logger.info("xxx用户建立连接...");
        if (request instanceof ServletServerHttpRequest) {
            String userId = ((ServletServerHttpRequest) request).getServletRequest().getParameter
"userId");
            map.put("userId", userId);
            logger.info("用户唯一标识: " + userId);
        }
        return true;
    }
}

```

```

    /**
     * 在握手之后执行该方法，无论是否握手成功都致命了响应的状态码和响应头
     * @param serverHttpRequest
     * @param serverHttpResponse
     * @param webSocketHandler
     * @param e
     */

```

```

    @Override
    public void afterHandshake(ServerHttpRequest serverHttpRequest, ServerHttpResponse se
verHttpResponse, WebSocketHandler webSocketHandler, Exception e) {

    }
}

```

WebSocketPushHandler

```
package sucblog.websocket;
```

```
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.web.socket.CloseStatus;
import org.springframework.web.socket.TextMessage;
import org.springframework.web.socket.WebSocketSession;
import org.springframework.web.socket.handler.TextWebSocketHandler;
```

```
import java.io.IOException;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
```

```
public class WebSocketPushHandler extends TextWebSocketHandler {
    private Logger logger = LoggerFactory.getLogger(this.getClass());
    private static final List<WebSocketSession> userList = new ArrayList<>();
```

```

/**
 * 用户进入 系统监听
 * @param session
 * @throws Exception
 */
@Override
public void afterConnectionEstablished(WebSocketSession session) throws Exception {
    logger.info(session.getAttributes() + "用户进入系统。。。");
    logger.info("用户信息:" + session.getAttributes());
    Map<String, Object> map = session.getAttributes();
    for (String key : map.keySet()) {
        logger.info("key:" + key + "and value: " + map.get(key));
    }
    userList.add(session);
    sendMessagesToUsers(session);
}

```

```

/**
 * 处理用户请求
 * @param session
 * @param message
 */
@Override
protected void handleTextMessage(WebSocketSession session, TextMessage message) thr

```

```

ws Exception{
    logger.info("系统处理[" + session.getAttributes().get("userId") + "]用户的请求信息==>" + message.getPayload());
    sendMessageToUser((String) session.getAttributes().get("userId"), message);
}

/**
 * 用户退出后的处理
 * @param session
 * @param status
 * @throws Exception
 */
@Override
public void afterConnectionClosed(WebSocketSession session, CloseStatus status) throws Exception {
    if (session.isOpen()) {
        session.close();
    }
    userList.remove(session);
    logger.info("xxx用户退出系统");
}

/**
 * 自定义函数
 * 给所有在线用户发送消息
 * @param
 */
public void sendMessagesToUsers(WebSocketSession session) {
    String msg = "欢迎" + session.getAttributes().get("userId");
    TextMessage message = new TextMessage(msg);
    for (WebSocketSession user : userList) {
        try {
            // isOpen() 在线就发送
            if (user.isOpen()) {
                user.sendMessage(message);
            }
        } catch (IOException e) {
            e.printStackTrace();
            logger.error(e.getLocalizedMessage());
        }
    }
}

public void sendMessageToUser(String userId, TextMessage message) {
    for (WebSocketSession user : userList) {
        try {
            if (user.isOpen()) {
                user.sendMessage(message);
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

```

```

        logger.error(e.getLocalizedMessage());
    }
}
}
}
}

```

前端代码

```

<template>
  <div style="margin: 150px auto; width: 500px;box-shadow: 0 0 20px #33333350; border-ra
  ius: 10px; padding: 20px;">
    <h2>websocket学习学习</h2>
    <h3>学海无涯，回头是岸</h3>
    <div style="margin-top: 20px; text-align: left">
      <input type="text" v-model="msg">
      <button @click="websocketsend(msg)">发送</button>
      <div v-if="bmsg">
        <ul>
          <li v-for="(item, i) in bmsg" :key="i">
            <strong :class="{services:item.user==='服务器'}">{{item.user}}</strong>
            回复时间: {{item.time}}
            <div>
              {{item.content}}
            </div>
          </li>
        </ul>
      </div>
    </div>
  </div>
</template>

```

```

<script>
export default {
  name: 'KolOnlineChat',
  data() {
    return {
      websocket: null,
      msg: null,
      bmsg: [],
    }
  },
  mounted() {
    this.initWebSocket()
  },
  destroyed() {
    this.websocket.close() // 离开路由断开websocket连接
  },
  methods: {
    initWebSocket() { // 初始化websocket
      const wsuri = "wss://localhost:9999/webSocketServer?userId=parker"
      this.websocket = new WebSocket(wsuri)
      this.websocket.onmessage = this.websocketonmessage
      this.websocket.onopen = this.websocketonopen
    }
  }
}

```

```

    this.websocket.onerror = this.websocketonerror
    this.websocket.onclose = this.websocketclose
  },
  websocketonopen() { //连接建立之后执行send方法发送数据
    // let actions = {'test': '12345'}
    // this.websocketsend(JSON.stringify(actions))
  },
  websocketonerror(){//连接建立失败重连
    this.initWebSocket()
  },
  websocketonmessage(e){ //数据接收
    const redata = JSON.stringify(e.data)
    this.arrOpear(redata, 'services')
  },
  websocketsend(Data){//数据发送
    this.websocket.send(Data)
    this.arrOpear(Data, 'localhost')
  },
  websocketclose(e){ //关闭
    console.log('断开连接',e)
  },
  arrOpear(msg, type) {
    let _b = {
      content: msg,
      user: type === 'services'? '服务器' : '我',
      time: new Date().toLocaleTimeString()
    }
    this.bmsg.push(_b)
  }
}
</script>

<style scoped lang="less">
strong {
  color: #03be01;
}
strong.services {
  color: orangered;
}
</style>

```

运行截图:

websocket学习学习

学海无涯，回头是岸

世上无难事，只要肯放弃

服务器 回复时间：下午7:52:38

"欢迎'parker"

我 回复时间：下午8:33:44

世上无难事，只要肯放弃

服务器 回复时间：下午8:33:44

"世上无难事，只要肯放弃"