WebSocket的集成

JEECG BOOT 增加websocket 旨在服务端主动向客户端推送数据,实现系统向在线用户推送消息,可群发,可对指定用户发送

jeecg boot 集成 websocket 步骤

(1) maven依赖

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-websocket</artifactId>
</dependency>
```

(2) WebSocket配置类

```
package org.jeecg.config;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.socket.server.standard.ServerEndpointExporter;

@Configuration
public class WebSocketConfig {
    /**
    * 注入ServerEndpointExporter,
    * 这个bean会自动注册使用了@ServerEndpoint注解声明的Websocket endpoint
    */
    @Bean
    public ServerEndpointExporter serverEndpointExporter() {
        return new ServerEndpointExporter();
    }
}
```

(3) WebSocket操作类

通过该类WebSocket可以进行群推送以及单点推送

```
package org.jeecg.modules.message.websocket;
import java.util.HashMap;
import java.util.Map;
import java.util.concurrent.CopyOnWriteArraySet;
import javax.websocket.OnClose;
import javax.websocket.OnMessage;
import javax.websocket.OnOpen;
import javax.websocket.Session;
import javax.websocket.server.PathParam;
import javax.websocket.server.ServerEndpoint;
import org.springframework.stereotype.Component;
import lombok.extern.slf4j.Slf4j;
@Component
@Slf4j
@ServerEndpoint("/websocket/{userId}")
public class WebSocket {
    private Session session;
    private static CopyOnWriteArraySet<WebSocket> webSockets =new CopyOnWriteArraySet<>();
    private static Map<String,Session> sessionPool = new HashMap<String,Session>();
```

```
@0n0pen
public void onOpen(Session session, @PathParam(value="userId")String userId) {
       this.session = session;
       webSockets.add(this);
       sessionPool.put(userId, session);
       log.info("【websocket消息】有新的连接,总数为:"+webSockets.size());
   } catch (Exception e) {
   }
}
@OnClose
public void onClose() {
   try {
       webSockets.remove(this);
       log.info("【websocket消息】连接断开,总数为:"+webSockets.size());
    } catch (Exception e) {
}
@OnMessage
public void onMessage(String message) {
    log.info("【websocket消息】收到客户端消息:"+message);
// 此为广播消息
public void sendAllMessage(String message) {
    log.info("【websocket消息】广播消息:"+message);
    for(WebSocket webSockets) {
       try {
           if(webSocket.session.isOpen()) {
               webSocket.session.getAsyncRemote().sendText(message);
       } catch (Exception e) {
           e.printStackTrace();
   }
}
// 此为单点消息
public void sendOneMessage(String userId, String message) {
    Session session = sessionPool.get(userId);
    if (session != null&&session.isOpen()) {
       try {
           log.info("【websocket消息】 单点消息:"+message);
           session.getAsyncRemote().sendText(message);
       } catch (Exception e) {
           e.printStackTrace();
   }
}
// 此为单点消息(多人)
public void sendMoreMessage(String[] userIds, String message) {
    for(String userId:userIds) {
       Session session = sessionPool.get(userId);
       if (session != null&&session.isOpen()) {
               log.info("【websocket消息】 单点消息:"+message);
               session.getAsyncRemote().sendText(message);
           } catch (Exception e) {
               e.printStackTrace();
       }
   }
}
```

}

```
<script>
   import store from '@/store/'
   export default {
       data() {
           return {
       },
       mounted() {
             //初始化websocket
             this.initWebSocket()
       destroyed: function () { // 离开页面生命周期函数
             this.websocketclose();
       },
       methods: {
           initWebSocket: function () {
               // WebSocket与普通的请求所用协议有所不同, ws等同于http, wss等同于https
               var userId = store.getters.userInfo.id;
               var url = window._CONFIG['domianURL'].replace("https://","ws://").replace("http://","w
               this.websock = new WebSocket(url);
               this.websock.onopen = this.websocketonopen;
               this.websock.onerror = this.websocketonerror;
               this.websock.onmessage = this.websocketonmessage;
               this.websock.onclose = this.websocketclose;
             },
             websocketonopen: function () {
               console.log("WebSocket连接成功");
             },
             websocketonerror: function (e) {
               console.log("WebSocket连接发生错误");
             websocketonmessage: function (e) {
               var data = eval("(" + e.data + ")");
                //处理订阅信息
               if(data.cmd == "topic"){
                  //TODO 系统通知
               }else if(data.cmd == "user"){
                  //TODO 用户消息
               }
             },
             websocketclose: function (e) {
               console.log("connection closed (" + e.code + ")");
             }
       }
</script>
```

上一篇: Websocket业务对接