# WebSocket

### Java-Code

#### 1 Java API for WebSocket

连接WebSocket的几种方式:

• 使用 @ServerEndpoint 注解, 并且进行配置

```
import javax.websocket.server.ServerEndpoint;
import org.springframework.stereotype.Component;
@Component
@ServerEndpoint(value = "/echoserver/echo")
public class AnnotationalEchoServer {
   @OnMessage
    public String echo(String message) {
       return "I got this (" + message + ") so I am sending it
back!";
   }
   @OnOpen
   public void onOpen(Session session) throws InterruptedException
{
       // 建立连接
   }
}
             ----- 另外还要添加配置类-----
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import
org.springframework.web.socket.server.standard.ServerEndpointExporte
r;
@Configuration
public class WebSocketConfig{
   // 关键是要把ServerEndpointExporter交给spring管理
```

```
@Bean
public ServerEndpointExporter serverEndpointExporter() {
    return new ServerEndpointExporter();
}
```

• 使用注册器

```
import javax.websocket.Endpoint;
import javax.websocket.EndpointConfig;
import javax.websocket.MessageHandler;
import javax.websocket.Session;
import java.io.IOException;
public class ProgrammaticEchoServer extends Endpoint {
   @Override
    public void onOpen(Session session, EndpointConfig config) {
        final Session s = session:
        s.addMessageHandler(new MessageHandler.Whole<String>() {
           @Override
           public void onMessage(String message) {
                   s.getBasicRemote().sendText("I got this(" +
message + ") so I am sending it back!");
               } catch (IOException e) {
                   e.printStackTrace();
           }
       });
    }
}
                -----另外还要添加配置类-----
// --
cn.com.bluemoon.material.delivery.electric.weighter.provider.websock
et.ProgrammaticEchoServer;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import
org.springframework.web.socket.server.standard.ServerEndpointExporte
r;
```

```
import
org.springframework.web.socket.server.standard.ServerEndpointRegistr
ation;
@Configuration
public class WebSocketConfig{

    // 关键是要把ServerEndpointExporter交给spring管理
    @Bean
    public ServerEndpointExporter serverEndpointExporter() {
        return new ServerEndpointExporter();
    }

    @Bean
    public ServerEndpointRegistration echoEndpoint() {
        return new ServerEndpointRegistration("/echo",
    ProgrammaticEchoServer.class);
    }
}
```

# 2. Spring WebSocket API

- HandshakeInterceptor
  - o 此接口包含2个方法: beforeHandshake 和 afterHandshake ,可实现对握手动作的操作:
- WebSocketHandler
  - o 此接口包含了对连接建立后、连接断开后、传输失败、数据处理等操作:
  - 可以考虑继承其子类: AbstractWebSocketHandler

## 3. 参数传递

• url中key=value形式

```
"ws:localhost:82/chat/123?username=ydh";
```

- 获取方式
  - session.getQueryString();
  - session.getRequestURI().toString();

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#### • 路径参数

```
// 类注解
@ServerEndpoint("/chat/{param}")

// 方法注解
@OnOpen
public void open(Session session, @PathParam("param")String
param) {
    System.out.println("用户"+param+" 登录");
}
```

### o 获取方式

- session.getPathParameters()
- @PathParam