

7-13 | IM 系统的核心 handler 模块测试

测试核心类：

```
Java
package imclient;

import io.netty.bootstrap.Bootstrap;
import io.netty.channel.Channel;
import io.netty.channel.ChannelFuture;
import io.netty.channel.ChannelInitializer;
import io.netty.channel.EventLoopGroup;
import io.netty.channel.nio.NioEventLoopGroup;
import io.netty.channel.socket.SocketChannel;
import io.netty.channel.socket.nio.NioSocketChannel;
import org.qiyu.live.im.core.server.common.ImMsg;
import org.qiyu.live.im.core.server.common.ImMsgDecoder;
import org.qiyu.live.im.core.server.common.ImMsgEncoder;
import org.qiyu.live.im.interfaces.ImMsgCodeEnum;

/**
 * @Author idea
 * @Date: Created in 11:20 2023/7/1
 * @Description
 */
public class ImClientApplication {

    private void startConnection(String address, int port) throws
    InterruptedException {
        EventLoopGroup clientGroup = new NioEventLoopGroup();
        Bootstrap bootstrap = new Bootstrap();
        bootstrap.group(clientGroup);
        bootstrap.channel(NioSocketChannel.class);
        bootstrap.handler(new ChannelInitializer<SocketChannel>()
        {
            @Override
            protected void initChannel(SocketChannel ch) throws
```

```

Exception {
    System.out.println("初始化连接建立");
    ch.pipeline().addLast(new ImMsgDecoder());
    ch.pipeline().addLast(new ImMsgEncoder());
    ch.pipeline().addLast(new ClientHandler());
}
});
ChannelFuture channelFuture = bootstrap.connect(address,
port).sync();
Channel channel = channelFuture.channel();
for (int i = 0; i < 100; i++) {

channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM_LOGIN_MSG.getCode(), "login"));

channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM_LOGOUT_MSG.getCode(), "logout"));

channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM_BIZ_MSG.getCode(), "biz"));

channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM_HEARTBEAT_MSG.getCode(), "heart"));
        Thread.sleep(3000);
    }
}

    public static void main(String[] args) throws
InterruptedException {
        ImClientApplication client = new ImClientApplication();
        client.startConnection("localhost", 9090);
    }
}

```

相关 handler :

```

Java
package imclient;

import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandlerAdapter;
import org.qiyu.live.im.core.server.common.ImMsg;

```

```
/**
 * @Author idea
 * @Date: Created in 22:15 2023/7/8
 * @Description
 */
public class ClientHandler extends ChannelInboundHandlerAdapter {

    @Override
    public void channelRead(ChannelHandlerContext ctx, Object msg)
throws Exception {
        ImMsg imMsg = (ImMsg) msg;
        System.out.println("【服务端响应数据】result is " + imMsg);
    }
}
```