```
Response getResponseWithInterceptorChain() throws IOException {
  // Build a full stack of interceptors.
  List<Interceptor> interceptors = new ArrayList<>();
  interceptors.addAll(client.interceptors());//1
  interceptors.add(retryAndFollowUpInterceptor);//2
  interceptors.add(new BridgeInterceptor(client.cookieJar()));//3
  interceptors.add(new CacheInterceptor(client.internalCache()));//4
  interceptors.add(new ConnectInterceptor(client));//5
  if (!forWebSocket) {
   interceptors.addAll(client.networkInterceptors());
  }
  interceptors.add(new CallServerInterceptor(forWebSocket));//6
  Interceptor.Chain chain = new RealInterceptorChain(interceptors, null, null,
null, 0,
    originalRequest, this, eventListener, client.connectTimeoutMillis(),
    client.readTimeoutMillis(), client.writeTimeoutMillis());//7
  return chain.proceed(originalRequest);
 }
point one 添加okhttpclint中我们自定义的interceptor。
point two 添加负责失败和重新定向的RetryAndFollowUpInterceptor
point three 添加负责把用户构造的请求转换为发送到服务器的请求、把服务器
返回的响应转换为用户友好的响应的BridgeInterceptor
ponit four 添加collection负责读取缓存直接返回、更新缓存的
CacheInterceptor
```

ponit five 添加负责和服务器建立连接的ConnectInterceptor;

point six 添加负责向服务器发送请求数据、读取响应数据的 CallServerInterceptor。

point seven 构造了处理拦截器的链子RealInterceptorChain。

前几步都是向list内添加Interceptor。最后用这个list,加上client的部分参数。 new了一个RealInterceptorChain。并通过chain.proceed(originalRequest)获取 到了response。

同样,我们来看RealInterceptorChain所实现的接口Chain:

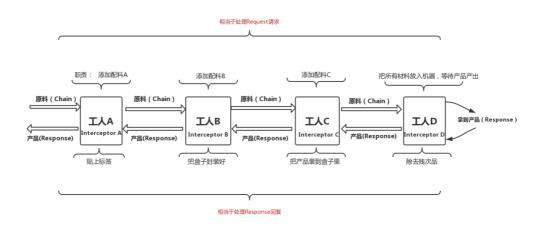
```
public interface Interceptor {
    Response intercept(Chain chain) throws IOException;
    interface Chain {
        Request request();
        Response proceed(Request request) throws IOException;
        //忽略代码
        .......
}
```

Chain接口是作为内部接口放在Interceptor接口内的。Interceptor负责 拦截加工Chain「request和response」。在RealInterceptorChain调用 proceed方法创建下一个节点的Chain,然后再下一个Chain中,定位到 下一个interceptor,在下一个interceptor的intercept方法获取中 response。一环扣一环,直到最后一个interceptor即 CallServerInterceptor进行网络请求获取response。

RealInterceptorChain next = new RealInterceptorChain(interceptors, streamAllocation, httpCodec,

```
connection, index + 1, request, call, eventListener, connectTimeout,
readTimeout,
    writeTimeout);
```

Interceptor interceptor = interceptors.get(index);
Response response = interceptor.intercept(next);
//责任链模式



我们具体来看Chain的实现类, RealInterceptorChain

作者给他的描述为/**

- * A concrete interceptor chain that carries the entire interceptor chain: all application
- * interceptors, the OkHttp core, all network interceptors, and finally the network caller.

*/

持有变量和构造方法

private final List<Interceptor> interceptors; private final StreamAllocation streamAllocation; private final HttpCodec httpCodec; private final RealConnection connection; private final int index;

```
private final Request request;
private final Call call;
private final EventListener eventListener;
private final int connectTimeout;
private final int readTimeout;
private final int writeTimeout;
private int calls;
 public RealInterceptorChain(List<Interceptor> interceptors, StreamAllocation
streamAllocation,
   HttpCodec httpCodec, RealConnection connection, int index, Request request, Call
call,
   EventListener eventListener, int connectTimeout, int readTimeout, int writeTimeout) {
}
通过分析代码, 我们看到
StreamAllocation最开始为空,会在RetryAndFollowUpInterceptor中new出来
httpCodec最开始也为空,会在ConnectInterceptor中初始化
RealConnection,同样是在RealConnection中初始化的。
```