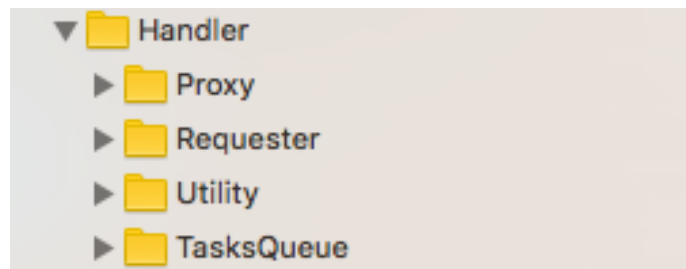
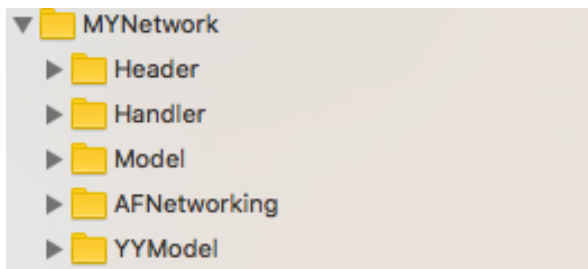


MYNetwork 网络库(基于 AFNetworking)

1. 简述: MYNetwork (基于 AFNetworking)是在 AFNetworking 框架基础上封装的一个网络库,功能包括:网络数据 get/post 请求、文件上传下载、图片加载缓存等,目标是做到 1 行代码完成一个网络请求事件,此次封装验证了 MYNetwork 框架是松耦合的,相比之前基于 NSURLSession 进行封装的 MYNetwork 网络库 1.0 版,仅需修改部分实现文件即可,以下将详细介绍修改细节。

2. 封装

(1) 目录结构:



(2) 相关文件修改:

1) HeaderFile

1>MYNetwork-prefix.pch

导入头文件:

```
#import "AFNetworking.h"
#import "UIKit+AFNetworking.h"
```

2>MYTypeDefinitions.h

添加枚举、定义 block:

```
typedef NS_ENUM(NSUInteger, MYHTTPResponseSerializerType){
    MYHTTPResponseSerializerTypeJson,
    MYHTTPResponseSerializerTypeData,
    MYHTTPResponseSerializerTypePlist,
    MYHTTPResponseSerializerTypeXMLParser,
    MYHTTPResponseSerializerTypeCompound
};
```

```
typedef void (^MYNetworkLinkStatusFetchBlock)(MYNetworkLinkStatus status);
```

```
typedef void (^MYNetworkImageFetchBlock)(UIImage *fetchImage, BOOL isCache);//fetchImage为nil说明缓存里没找着、图片url请求失败
```

2) Model

1>MYRequestObj.h

添加属性

```
@property (assign, nonatomic) MYHTTPResponseSerializerType responseSerializer;///返回数据解析类型
```

2>MYRequestObj.m

初始化

```
self.responseSerializer = MYHTTPResponseSerializerTypeJson;
```

3>MYURLSessionTask.m

添加 requestId 创建逻辑(使用 AFNetworking, requestId 不适合直接使用 session 的 taskIdentifier)

```
#import <objc/runtime.h>

@interface NSURLSessionTask (RequestId)

@property (assign, nonatomic) NSInteger requestId;

@end

@implementation NSURLSessionTask (RequestId)

- (NSInteger)requestId{
    return [objc_getAssociatedObject(self, _cmd) integerValue];
}

- (void)setRequestId:(NSInteger)requestId{
    objc_setAssociatedObject(self, @selector(requestId), [NSNumber numberWithInt:requestId],
        OBJC_ASSOCIATION_RETAIN_NONATOMIC);
}


```

```
static int myRequestId = 0;
static NSObject *obj;
```

```
- (void)setTask:(NSURLSessionTask *)task{
    if(!obj)
        obj = [[NSObject alloc] init];
    @synchronized (obj) {
        _task = task;
        task.requestId = ++myRequestId;
        _requestId = myRequestId;
        self.netWorkResponse.requestId = myRequestId;
    }
}


```

3) Handler (TaskQueue)

1>MYTasksOperationQueue.m

```
- (void)startSessionTaskFromTasksQueueWithTask:(MYURLSessionTask *)task taskType:(MYNetworkTaskType)taskType{
    // [task.task resume];
}


```

Handler(Utility)

1>MYNetworkUtility.h

```
@class AFHTTPResponseSerializer;
```

添加方法

```
+ (AFHTTPResponseSerializer *)getHttpResponseSerializerFromRequestObject:(MYRequestObj *)requestObj; //从请求模型中获取请求响应的解析器
```

注掉方法

```
//+ (void)setHttpHeadersWithRequestObject:(MYRequestObj *)requestObj request:(NSMutableURLRequest *)request; //设置http请求头部信息  
  
//+ (NSString *)getEncodedParamsFromDictionary:(NSDictionary *)dic; //从参数字典中获取编码后的参数字符串  
  
//+ (NSString*) mk_urlEncodedString:(NSString *)string; //url参数编码逻辑  
  
//+ (NSString *)getContentTypeWithFilePath:(NSString *)filePath; //获取文件的MIME  
  
//+ (NSMutableURLRequest *)getPostRequestWithRequestObj:(MYRequestObj *)requestObj; //构建post请求  
//+ (NSMutableURLRequest *)getGetRequestWithRequestObj:(MYRequestObj *)requestObj; //构建get请求  
//+ (NSMutableURLRequest *)getMultipartFormDataRequestWithRequestObj:(MYRequestObj *)requestObj filePath:(NSString *)filePath; //构建multipart/form-data请求  
//+ (NSURLRequest *)getDownloadRequestWithUrl:(NSURL *)url; //构建download请求
```

修改方法

```
+ (void)getNetworkStates:(MYNetworkLinkStatusFetchBlock)networkFetchBlock; //获取网络状态
```

2> MYNetworkUtility.m

```
+ (AFHTTPResponseSerializer *)getHttpResponseSerializerFromRequestObject:(MYRequestObj *)requestObj {  
    switch (requestObj.responseSerializer) {  
        case MYHTTPResponseSerializerTypeJson:  
            return [AFJSONResponseSerializer serializer];  
            break;  
        case MYHTTPResponseSerializerTypeData:  
            return [AFHTTPResponseSerializer serializer];  
            break;  
        case MYHTTPResponseSerializerTypePlist:  
            return [AFPropertyListResponseSerializer serializer];  
            break;  
        case MYHTTPResponseSerializerTypeXMLParser:  
            return [AFXMLParserResponseSerializer serializer];  
            break;  
        case MYHTTPResponseSerializerTypeCompound:  
            return [AFCompoundResponseSerializer serializer];  
            break;  
        default:  
            return nil;  
            break;  
    }  
}
```

```

+ (void)getNetworkStates:(MYNetworkLinkStatusFetchBlock)networkFetchBlock{
    /**
    AFNetworkReachabilityStatusUnknown      = -1, // 未知
    AFNetworkReachabilityStatusNotReachable = 0, // 无连接
    AFNetworkReachabilityStatusReachableViaWWAN = 1, // 3G 花钱
    AFNetworkReachabilityStatusReachableViaWiFi = 2, // 局域网,不花钱
    */
    // 如果要检测网络状态的变化,必须用检测管理器的单例的startMonitoring
    [[AFNetworkReachabilityManager sharedManager] startMonitoring];
    // 检测网络连接的单例,网络变化时的回调方法
    [[AFNetworkReachabilityManager sharedManager] setReachabilityStatusChangeBlock:^(AFNetworkReachabilityStatus status) {
        switch (status) {
            case -1:
                networkFetchBlock(MYNetworkLinkStatusUnknown);
                break;
            case 0:
                networkFetchBlock(MYNetworkLinkStatusNotReachable);
                break;
            case 1:
                networkFetchBlock(MYNetworkLinkStatusCellular);
                break;
            case 2:
                networkFetchBlock(MYNetworkLinkStatusWifi);
                break;
            default:
                break;
        }
    }];
}

```

3>Handler (Requester)

MYDataRequester.h