列表数据请求框架搭建

- 1. 简述: 开发应用难免和列表打交道,可能是 UITableView 或 UICollectionView,正常开发思路是: 配置数据源,定义列表展示数据,使用 MJRefresh 进行上下拉刷新,请求服务器返回数据更新,刷新列表展示新数据。这出现一个问题: 控制器代码过于复杂。所以应该把某些逻辑抽象出来,如数据和请求,将其定义为一个 Model,负责提供列表的数据源,提供数据并维护数据。
- 2. 框架搭建(以 UICollection View 为例)
 - (1) 定义 BaseManagerModel

```
@protocol ManagerStateObserver <NSObject>
@optional
- (void)managerDidLoadedData:(BaseManager *)manager;
- (void)managerDidFailedData:(BaseManager *)manager;
@end
typedef void(^managerFinsihBlock)(BaseManager *manager);
@interface BaseManager: NSObject
@property (nonatomic, assign) id<ManagerStateObserver> delegate;
@property (nonatomic, assign) NSInteger errorCode;
@property (nonatomic, strong) NSString *errorMessage;
@property (nonatomic, strong) id data;
@property (nonatomic, assign) BOOL isLoading;
@property (nonatomic, assign) JCRequestID requestId;
@property (nonatomic, assign) JCNetworkResponseStatus status;

    (void)performSuccess:(BaseManager *)manager;

- (void)perFormFail:(BaseManager *)manager;
@end
```

```
#import "BaseManager.h"

@implementation BaseManager

@synthesize delegate = _delegate;

@synthesize data = _data;

@synthesize isLoading = _isLoading;

@synthesize requestId = _requestId;
```

```
#pragma mark self method

- (void)performSuccess:(BaseManager *)manager
{
    if ([self.delegate respondsToSelector:@selector(managerDidLoadedData:)]) {
        [self.delegate managerDidLoadedData:manager];
    }
}

- (void)perFormFail:(BaseManager *)manager
{
    if ([self.delegate respondsToSelector:@selector(managerDidFailedData:)]) {
        [self.delegate managerDidFailedData:manager];
    }
}
@end
```

```
#import "BaseManager.h"
typedef void (^MYCollectionCellConfigureBlock)(id collectionViewCell, id item, NSIndexPath *indexPath);
typedef void (^MYCollectionReusableViewBlock)(UICollectionReusableView *reusableView, NSString *elementKind,
  NSIndexPath *indexPath);
@interface MYBaseManagerModel: BaseManager < UICollectionViewDataSource>
@property (nonatomic, assign) NSInteger total;
@property (nonatomic, assign) NSInteger itemCount;
@property (nonatomic, assign) NSInteger startRow;
@property (nonatomic, assign) NSInteger pages;
@property (nonatomic, strong) NSString *keywords;
@property (nonatomic, assign) BOOL isReset;
@property (nonatomic, strong) NSString *cellIdentifier;
@property (nonatomic, strong) NSString *headerIdentifier;
@property (nonatomic, strong) NSString *footerIdentifier;
@property (nonatomic, copy) MYCollectionReusableViewBlock reusableViewBlcok;
@property (nonatomic, copy) MYCollectionCellConfigureBlock configureCellBlock;
```

```
    - (id)initWithCellIdentifier:(NSString *)aCellIdentifier
        withHeaderIdentifier:(NSString *)aHeaderIdentifier
        configureCellBlock:(MYCollectionCellConfigureBlock)aConfigureCellBlock
        withCellClass:(NSString *)className;
```

- (id)initWithCellIdentifier:(NSString *)aCellIdentifier
 withFooterIdentifier:(NSString *)aFooterIdentifier
 configureCellBlock:(MYCollectionCellConfigureBlock)aConfigureCellBlock
 withCellClass:(NSString *)className;

- (id)initWithCellIdentifier:(NSString *)aCellIdentifier
 withHeaderIdentifier:(NSString *)aHeaderIdentifier
 withFooterIdentifier:(NSString *)aFooterIdentifier
 configureCellBlock:(MYCollectionCellConfigureBlock)aConfigureCellBlock
 withCellClass:(NSString *)className;

- (NSInteger)getItemCount;
- (id)getItemDataWithIndex:(NSInteger)index;
- (BOOL)isMoreData;
- (NSInteger)getItemTotal;
- (void)cancelRequest;
- (void)reSetData;

@end

```
#import "MYBaseManagerModel.h"
#import "NSArray+ExtraMethod.h"
#import "List.h"
@interface MYBaseManagerModel ()
@property (nonatomic, strong) NSString *cellClassName;
@end
@implementation MYBaseManagerModel
- (id)init {
  self = [super init];
  if (self) {
  return self;
- (id) in it With Cell Identifier: (NSS tring *) a Cell Identifier \\
    withHeaderIdentifier:(NSString *)aHeaderIdentifier
      configure Cell Block: (MYCollection Cell Configure Block) \\ a Configure Cell Block
         withCellClass:(NSString *)className {
  self = [super init];
  if (self) {
    self.cellIdentifier = aCellIdentifier;
    self.headerIdentifier = aHeaderIdentifier;
    self.cellClassName = className;
    self.configureCellBlock = [aConfigureCellBlock copy];
  }
  return self;
```

```
-(id)initWithCellIdentifier:(NSString *)aCellIdentifier withFooterIdentifier:(NSString *)aFooterIdentifier
  configureCellBlock:(MYCollectionCellConfigureBlock)aConfigureCellBlock withCellClass:(NSString *)className
  self = [super init];
  if (self) {
    self.cellIdentifier = aCellIdentifier;
    self.footerIdentifier = aFooterIdentifier;
    self.cellClassName = className;
    self.configureCellBlock = [aConfigureCellBlock copy];
  return self;

    (id)initWithCellIdentifier:(NSString *)aCellIdentifier

    withHeaderIdentifier:(NSString *)aHeaderIdentifier
    withFooterIdentifier:(NSString *)aFooterIdentifier
      configureCellBlock:(MYCollectionCellConfigureBlock)aConfigureCellBlock
         withCellClass:(NSString *)className {
  self = [self initWithCellIdentifier:aCellIdentifier withHeaderIdentifier:aHeaderIdentifier configureCellBlock:
    aConfigureCellBlock withCellClass:className];
  self.footerIdentifier = aFooterIdentifier;
  return self;
```

```
#pragma self private method
- (id)itemAtIndexPath:(NSIndexPath *)indexPath {
  return self.data[(long)indexPath.row];
- (NSInteger)getItemCount {
  return self.itemCount;
}
- (NSInteger)getItemTotal {
  return self.total;
- (id)getItemDataWithIndex:(NSInteger)index {
  return [self.data objectSafetyAtIndex:index];
}
- (BOOL)isMoreData {
  if ([self.data isKindOfClass:[NSArray class]]) {
    return self.total > self.itemCount? YES: NO;
  }
  return NO;
}
```

```
- (void)cancelRequest {
        [[]CRequestProxy sharedInstance] cancelRequestID:self.requestId];
       if (self.isLoading) {
               self.isLoading = NO;
- (void)reSetData {
       self.keywords = @"";
       self.startRow = 0;
       self.isReset = YES;
       self.total = 0;
       self.itemCount = 0;
#pragma mark UICollectionViewDataSource
- (NSInteger)numberOfSectionsInCollectionView:(UICollectionView *)collectionView {
       return 1;
- (NSInteger)collectionView:(UICollectionView*)collectionView numberOfItemsInSection:(NSInteger)section {
       return [self.data count];
- (UICollection View Cell *) collection View *) collection View *) collection View cell For I tem At Index Path (NSIndex Path Collection View Cell *) collection View *) collection View Cell *) collection View *) collecti
        *)indexPath {
        UICollectionViewCell *cell = [collectionView dequeueReusableCellWithReuseIdentifier:self.cellIdentifier
                forIndexPath:indexPath];
        id item = [self itemAtIndexPath:indexPath];
        self.configureCellBlock(cell, item, indexPath);
        return cell;
```

(2) 定义具体列表 Model

- 1) 根据实际情况重写-initWith 方法和 dataSource 相关方法,添加必要请求参数
- 2) 添加数据请求方法,处理数据更新

```
#import "MYESiteManagerModel.h"
#import "MYRequestProxy.h"
#import "MYJobForwordingIndexRequest.h"
#import "NSArray+ExtraMethod.h"
@interface MYESiteManagerModel ()
@property (atomic, copy) managerFinsihBlock managerBlock;
@property (nonatomic, assign) NSTimeInterval lastTimeInterval;
@end
@implementation MYESiteManagerModel
@synthesize isLoading = _isLoading;
- (id)init {
  self = [super init];
  if (self) {
  }
  return self;
- (id)initWithCellIdentifier:(NSString *)aCellIdentifier
```

```
- (void)loadESiteDataWithBlock:(managerFinsihBlock)finishBlock {
  if (self.isLoading) { //在载入的话就不动
    return;
  }
  if (_managerBlock != finishBlock) {
    _managerBlock = finishBlock;
  }
  MYJobForwordingIndexRequest *request = [[MYJobForwordingIndexRequest alloc] init];
  request.keywords = self.keywords;
  request.startIndex = [NSString stringWithFormat:@"%ld", (long)self.startRow];
  request.stepLength = @"10";
  __weak typeof(self) weakSelf = self;
  self.isLoading = YES;
  self.requestId = [[MYRequestProxy sharedInstance] httpPostWithRequest:request entityClass:@"MYESiteInfo"
    withBlock:^(JCNetworkResponse *response){
    weakSelf.isLoading = NO;
     if (response.status == JCNetworkResponseStatusSuccess) {
      weakSelf.startRow += 10;
      MYESiteInfo *infoData = response.content;
      if (weakSelf.isReset) {
         weakSelf.data = infoData.eSiteArrary;
         weakSelf.isReset = NO;
      } else {
         [weakSelf.data addObjectsFromArray:infoData.eSiteArrary];
```

```
weakSelf.total = infoData.pageInfo.totalCount;
       weakSelf.itemCount = [weakSelf.data count];
       weakSelf.errorCode = 1;
       weakSelf.errorMessage = infoData.msg;
       weakSelf.errorCode = response.error.code;
       weakSelf.errorMessage = [response.error localizedDescription];
    finishBlock(weakSelf);
  }];
#pragma mark self method
- (void)removeListData:(MYESiteUnitInfo *)infoData {
  if ([self.data containsObject:infoData]) {
     [self.data removeObject:infoData];
  }
  self.itemCount = [self.data count];
  self.total -= 1;
- (void)reSetAllCondition {
  self.isReset = YES;
  self.requestId = -1;
  self.startRow = 0;
  self.total = 0;
  self.itemCount = 0;
- (BOOL)isNeedRefresh {
  //超过500秒刷新
  NSTimeInterval currentTimeInterval = [[NSDate date] timeIntervalSince1970];
  if (currentTimeInterval - self.lastTimeInterval >= 600) {
```

(3) viewController 中的配置

```
self.eSiteManagerModel = [[MYESiteManagerModel alloc] initWithCellIdentifier:@"microShopCell"
   withHeaderIdentifier:nil configureCellBlock:^(id collectionViewCell, id item, NSIndexPath *indexPath) {
   [(MYMicroShopCollectionViewCell *)collectionViewCell setDelegate:selfWeak];
   [(MYMicroShopCollectionViewCell *)collectionViewCell loadESiteInfo:item];
} withCellClass:nil];

[self_microShopCollectionView_setDataSource:self.eSiteManagerModel];
```

```
self,microShopCollectionView,footer = [MYRefreshFooter footerWithRefreshingBlock: ^{
   if([selfWeak.eSiteManagerModel isMoreData]){
     [selfWeak.eSiteManagerModel loadESiteDataWithBlock:^(BaseManager *manager) {
       [selfWeak handlerNetworkInfo:manager];
       [selfWeak,microShopCollectionView,footer endRefreshing];
       [selfWeak,microShopCollectionView,reloadData];
    }];
     return;
   [selfWeak,microShopCollectionView,footer endRefreshingWithNoMoreData];
 }];
- (void)refreshMicoShop {
  [self.eSiteManagerModel reSetData];
  [self.microShopCollectionView.footer resetNoMoreData];
  if(!self.eSiteManagerModel.isLoading) {
    [self.microShopCollectionView setScrollEnabled:NO];
  [self.microShopCollectionView hide];
  @WeakObj(self);
  [self.eSiteManagerModel loadESiteDataWithBlock:^(BaseManager *manager) {
    [selfWeak.progressView stopAnimating];
    [selfWeak hideProgress];
    [selfWeak handlerNetworkInfo:manager];
    [selfWeak.microShopCollectionView setScrollEnabled:YES];
    if([selfWeak.eSiteManagerModel getItemCount] != 0){
      [selfWeak.microShopCollectionView hide];
    }else{
      [selfWeak.microShopCollectionView showMessage:@"您还没有添加任何招聘信息"];
      CGFloat height = WINDOW_WIDTH*328/720 + 44;
      if (iPhone4s) {
         [selfWeak.microShopCollectionView setImageViewCenterYConstraintEqualToSuperViewCenterY:
           WINDOW_HEIGHT*0.12+2 - height];
      else
         [selfWeak.microShopCollectionView setImageViewCenterYConstraintEqualToSuperViewCenterY:
           WINDOW_HEIGHT*0.1 - height];
      [selfWeak.microShopCollectionView showButtonWithContent:@"添加订单"];
      [selfWeak.microShopCollectionView.showButton addTarget:self action:@selector(goRecruit:)
         forControlEvents:UIControlEventTouchUpInside];
    [selfWeak.microShopCollectionView reloadData];
```