## 主从列表封装思想

- 1. 简述:项目中经常需要用到主从列表,比如城市选择啊,筛选等功能,如果每一级都是单独都一个页面,那么只要做好页面间传值即可。但这种往往少见,通常是需要同个页面展示多级列表,如果每次都写一遍,那么完全没必要的,有一些通用的地方是可以进行封装的。
- 2. 以下就主从列表封装提出几个问题:
  - (1) 是否封装 cell 的加载动画? 个人觉得没必要, cell 显示前丢给外界就完事, 怎么动画让开发者自己动脑筋就好。
  - (2) 是否封装 cell 样式? 个人觉得没必要,怎么好看的自定义 cell,让外界自己定义,封装只需要加载显示即可,顶多外界没定义时加载显示系统默认 cell 样式就好
- 3. DoubleTableView 封装如下:

static NSInteger const MYDOUBLETABLEVIEW\_Main\_Tag = 1000;//mainTableffstastaticg static NSInteger const MYDOUBLETABLEVIEW\_Sub\_Tag = 1001;//subTableffstag

typedef void ("MYDoubleTableCellConfigBlock)(UITableView \*tableView, id tableCell, id item, NSIndexPath \*indexPath);

@protocol MYDoubleTableViewDelegate<NSObject>

## @optional;

- (void) double Table View: (UITable View\*) table View\* did Select Row At Index Path: (NSIndex Path\*) index Path; (NSIndex Path\*) index Path\* index Path
- (CGFloat)doubleTableView:(UITableView \*)tableView heightForRowAtIndexPath:(NSIndexPath \*)indexPath;
- (void) scroll View Will Begin Dragging: (UIS croll View \*) scroll View;

@end

@interface MYDoubleTableView: UIView

@property (strong, nonatomic, readonly) UITableView \*mainTable; @property (strong, nonatomic, readonly) UITableView \*subTable;

@property (copy, nonatomic) MYDoubleTableCellConfigBlock cellConfigBlock;

@property (assign, nonatomic) id <MYDoubleTableViewDelegate> delegate;

- $-(instance type) in it With Frame; (CGRect) frame\ main Table Cell Class; (Class) main Cell\ sub Table Cell Class; (Class) sub Cell; (Class) main Cell\ sub Table Cell Class; (Class) main Cell\ sub Ta$
- (void)reloadMainTable:(NSMutableArray \*)data;
- (void)reloadSubTable:(NSMutableArray \*)data;
- (void)clickMainTable:(NSInteger)index; //此方法调用后会调用代理方法doubleTableView:didSelectRowAtIndexPath:

@end

```
#import "MYDoubleTableView.h"
#import "MYDoubleTableModel.h"
static NSString *const kMainTableCellIdentifier = @"mainCell";
static NSString *const kSubTableCellIdentifier = @"subCell";
@interface MYDoubleTableView ()<UITableViewDelegate>
@property (weak, nonatomic) Class mainCellClass;
@property (weak, nonatomic) Class subCellClass;
@property\ (strong,\ nonatomic)\ MYDouble Table Model\ *main Table Data Source;
@property\ (strong, nonatomic)\ MYDouble Table Model*subTable DataSource;
@end
@implementation \ MYDouble Table View
- (instance type) in it With Frame: (CGRect) frame \{\\
       if(self = [super initWithFrame:frame]){
              _mainCellClass = [UITableViewCell class];
              _subCellClass = [UITableViewCell class];
             [self configDoubleTable];
      return self;
}
- (instance type) in it With Frame: (CGRect) frame\ main Table Cell Class: (Class) main Cell\ sub Table Cell Class: (Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell\ sub Table Cell Class) sub Cell \{ (Class) main Cell Class) sub Cell \{ (
      if(self = [super initWithFrame:frame]) {
             _mainCellClass = mainCell;
             _subCellClass = subCell;
             [self configDoubleTable];
       return self;
```

```
- (void)configDoubleTable{
    __weak typeof(self) weakSelf = self;
    _mainTable = [[UITableView alloc] initWithFrame:CGRectMake(0, 0, 100, CGRectGetHeight(self.bounds)) style:UITableViewStylePlain];
    [_mainTable registerClass:_mainCellClass forCellReuseIdentifier:kMainTableCellIdentifier];
    _mainTable.separatorStyle = UITableViewCellSeparatorStyleNone;
    _mainTable.tableFooterView = [[UIView alloc] init];
    _mainTable.backgroundColor = [UIColor whiteColor];
    _mainTable.showsVerticalScrollIndicator = NO;
      _{mainTable.tag} = MYDOUBLETABLEVIEW_Main_Tag;
    [self addSubview:_mainTable];
    _mainTableDataSource = [[MYDoubleTableModel alloc] initWithCellIdentifier:kMainTableCellIdentifier headerIdentifier:nil cellConfigBlock:^(id tableCell, id item,
        NSIndexPath *indexPath) {
        if(weakSelf.cellConfigBlock){
             weakSelf.cellConfigBlock(weakSelf.mainTable, tableCell, item, indexPath);
    }];
    _mainTable.dataSource = _mainTableDataSource;
    _mainTable.delegate = self;
    _subTable = [[UITableView alloc] initWithFrame:CGRectMake(100, 0, CGRectGetWidth(self.bounds) - 100, CGRectGetHeight(self.bounds)) style:UITableViewStylePlain]
    [_subTable registerClass:_subCellClass forCellReuseIdentifier:kSubTableCellIdentifier];
    _subTable.separatorStyle = UITableViewCellSeparatorStyleNone;
    _subTable.tableFooterView = [[UIView alloc] init];
    _subTable.backgroundColor = [UIColor whiteColor];
    _subTable.showsVerticalScrollIndicator = NO;
     _subTable.tag = MYDOUBLETABLEVIEW_Sub_Tag;
    [self addSubview:_subTable];
    _subTableDataSource = [[MYDoubleTableModel alloc] initWithCellIdentifier:kSubTableCellIdentifier headerIdentifier:nil cellConfigBlock:^(id tableCell, id item,
        NSIndexPath *indexPath) {
        [tableCell setSelectionStyle:UITableViewCellSelectionStyleNone];
        if(weakSelf.cellConfigBlock){
            weakSelf.cellConfigBlock(weakSelf.subTable, tableCell, item, indexPath);
    }];
    _subTable.dataSource = _subTableDataSource;
    _subTable.delegate = self;
#pragma mark UITableViewDelegate
- (void)tableView:(UITableView *)tableView didSelectRowAtIndexPath:(NSIndexPath *)indexPath {
    if(self.delegate && [self.delegate respondsToSelector:@selector(doubleTableView:didSelectRowAtIndexPath:)]){
        [self.delegate doubleTableView:tableView didSelectRowAtIndexPath:indexPath];
}
- (CGFloat)tableView:(UITableView *)tableView heightForRowAtIndexPath:(NSIndexPath *)indexPath {
    if(self.delegate && [self.delegate respondsToSelector:@selector(doubleTableView:heightForRowAtIndexPath:)]){
        return [self.delegate doubleTableView:tableView heightForRowAtIndexPath:indexPath];
    return 44:
#pragma mark UIScrollViewDelegate
- (void) scroll View Will Begin Dragging: (UIS croll View *) scroll View \{ (Vision of the context of the cont
    if(self.delegate && [self.delegate respondsToSelector:@selector(scrollViewWillBeginDragging:)]){
        [self.delegate scrollViewWillBeginDragging:scrollView];
```

}

```
#pragma mark public methods
 - (void)reloadMainTable:(NSMutableArray *)data{
      mainTableDataSource.data = data;
      [_mainTable reloadData];
 - (void)reloadSubTable:(NSMutableArray *)data{
      _subTableDataSource.data = data;
      [_subTable reloadData];
 - (void)clickMainTable:(NSInteger)index{
      [self.mainTable selectRowAtIndexPath:[NSIndexPath indexPathForRow:index inSection:0] animated:NO scrollPosition:UITableViewScrollPositionNone];
      [self tableView:_mainTable didSelectRowAtIndexPath:[NSIndexPath indexPathForRow:index inSection:0]];
MYDoubleTableModel 封装如下:
#import <Foundation/Foundation.h>
#import <UIKit/UIKit.h>
typedef void (^MYCellConfigBlock)(id tableCell, id item, NSIndexPath *indexPath);
@interface \ MYDouble Table Model: NSObject < UITable View Data Source > \\
@property (strong, nonatomic) NSMutableArray *data;
- (instancetype)initWithCellIdentifier:(NSString *)cellIdentifier headerIdentifier:(NSString *)headerIdentifier cellConfigBlock:(MYCellConfigBlock)configBlock;
@end
#import "MYDoubleTableModel.h"
@interface MYDoubleTableModel ()
@property (strong, nonatomic) NSString *cellIdentifier;
@property (strong, nonatomic) NSString *headerIdentifier;
@property (copy, nonatomic) MYCellConfigBlock configBlock;
@end
@implementation MYDoubleTableModel
- (instance type) in it With Cell Identifier: (NSS tring *) cell Identifier (NSS tring *) header Identifier cell Config Block: (MYCell Config Block) config Block) (MYCell Con
     if(self = [super init]){
          self.data = [NSMutableArray array];
          self.cellIdentifier = cellIdentifier;
          self.headerIdentifier = headerIdentifier;
          self.configBlock = [configBlock copy];
     return self:
```

## #pragma mark UITableViewDataSource

```
- (NSInteger)numberOfSectionsInTableView:(UITableView *)tableView (uITableView *)tableView (uITableView *)tableView numberOfRowsInSection:(NSInteger)section {
    return [self.data count];
}

- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {
    UITableViewCell *cell = [tableView dequeueReusableCellWithIdentifier:self.cellIdentifier forIndexPath:indexPath];
    if(self.configBlock) {
        self.configBlock(cell, [self itemAtIndexPath:indexPath], indexPath);
    }
    return cell;
}

#pragma mark private methods
- (id)itemAtIndexPath:(NSIndexPath *)indexPath {
        return [self.data objectAtIndex:indexPath.row];
}

@end
```

## 4. 总结:

封装只要获取数据源 data 数组,然后加载出来之后,能准确把用户点击那个列表的第几个 cell 告诉外界即可。至于 cell 长什么样,大小如何,需不需要动画等等。我想这不是封装过程中该考虑的事。考虑的多了,封装逻辑就更繁琐,不利于其他人理解,而且有时候会使封装变的不够灵活(如 cell 样式写进了封装: "玛德,UI 设计要求的样式不是这样的,怎么自定义? 封装代码多看不懂…这不麻烦了嘛 T T")