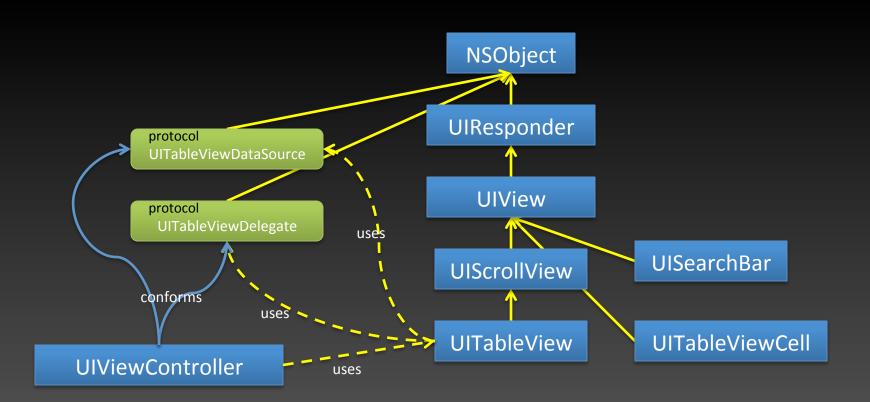
# **Table View**



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### Missions

- Initialize a table view / Assign a delegate to a table view
- Populate data into a table view
- Handle table view events



### Có 2 cách

1. Sử dụng UlTableViewController có sẵn UlTableView

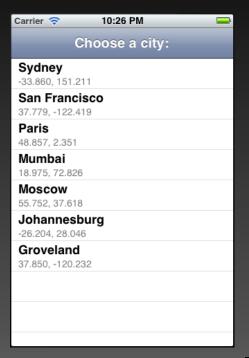
2. Sử dụng UIViewController tuân thủ UITableViewDataSource, UITableViewDelegate

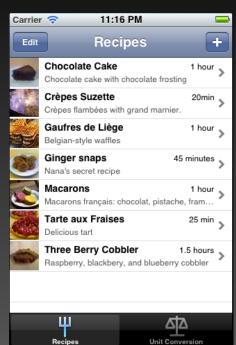
Cách 2 mềm dẻo hơn nếu chúng ta có nhiều hơn 1 UITableView để quản lý trong UIViewController

```
UIKIT CLASS AVAILABLE(2 0)
@interface UITableViewController: UIViewController
<UITableViewDelegate, UITableViewDataSource> {
  @private
    UITableViewStyle _tableViewStyle;
                     _keyboardSupport;
    id
    id
                     staticDataSource;
    struct {
        int clearsSelectionOnViewWillAppear:1;
    } _tableViewControllerFlags;
                                                     UITableView
- (id)initWithStyle:(UITableViewStyle)style;
@property(nonatomic, retain) UITableView *tableView;
@property(nonatomic) BOOL clearsSelectionOnViewWillAppear
@end
```

# 2 default types

### **UITableViewStylePlain**





### **UITableViewStyleGrouped**



- (id)initWithStyle: (UITableViewStyle)style

# POPULATE DATA INTO A TABLE VIEW

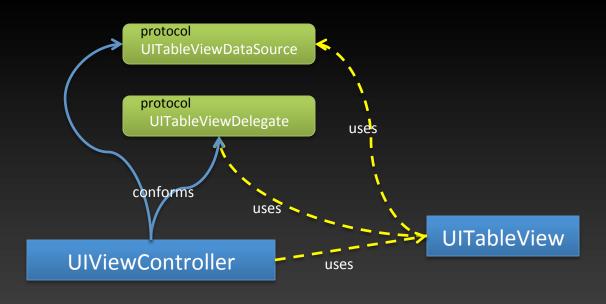
### @protocol UITableViewDataSource<NSObject>

#### @required

- (NSInteger)tableView:(UITableView \*)tableView
  numberOfRowsInSection:(NSInteger)section;
- (UITableViewCell \*)tableView:(UITableView \*)tableView
  cellForRowAtIndexPath:(NSIndexPath \*)indexPath;

#### @optional

- (NSInteger)numberOfSectionsInTableView: (UITableView
- \*)tableView;



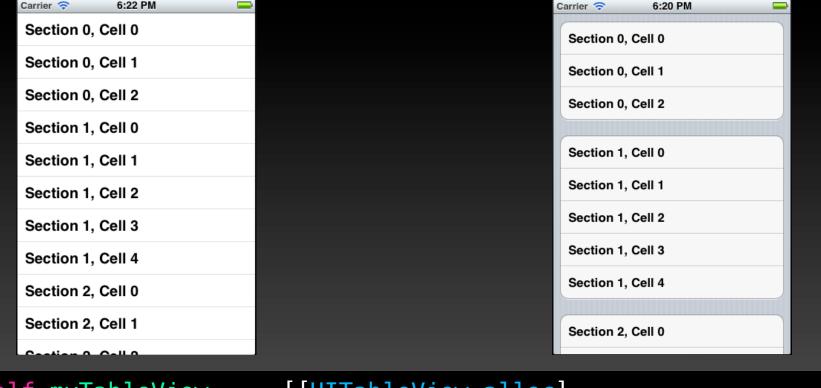
```
@property(nonatomic,assign)
@property(nonatomic,assign)
id <UITableViewDataSource> dataSource;
id <UITableViewDelegate> delegate;
```

@interface UITableView : UIScrollView <NSCoding> {



# Populating a Table View with Data

 Xem demo "Populating a Table View with Data"



6:22 PM

self.myTableView = [[UITableView alloc] initWithFrame:self view bounds style:UITableViewStylePlain];

self.myTableView = [[UITableView alloc] initWithFrame:self.view.bounds style:UITableViewStyleGrouped];

```
- (NSInteger)tableView:(UITableView *)tableView
numberOfRowsInSection:(NSInteger)section{
```

```
NSInteger result = 0;
if ([tableView isEqual:self.myTableView]){
   switch (section){
                                                            Carrier 🛜
                                                                      6:20 PM
      case 0:{
                                                             Section 0. Cell 0
         result = 3;
                                                             Section 0, Cell 1
         break:
                                                             Section 0, Cell 2
      case 1:{-
                                                             Section 1, Cell 0
         result = 5;
                                                             Section 1. Cell 1
         break;
                                                             Section 1, Cell 2
                                                             Section 1, Cell 3
      case 2:{-
         result = 8;
                                                             Section 1, Cell 4
         break:
                                                             Section 2, Cell 0
```

```
- (UITableViewCell *)tableView:(UITableView *)tableView
          cellForRowAtIndexPath: (NSIndexPath *) indexPath{
  UITableViewCell *result = nil;
  static NSString *TableViewCellIdentifier = @"MyCells";
  result = [tableView
              dequeueReusableCellWithIdentifier:TableViewCellIdentifier];
  if (result == nil){
     result = [[UITableViewCell alloc]
                initWithStyle:UITableViewCellStyleDefault
                reuseIdentifier:TableViewCellIdentifier];
  result.textLabel.text = [NSString stringWithFormat:@"Section %ld, Cell
%ld", (long)indexPath.section, (long)indexPath.row];
                                                         Section 0, Cell 0
                                                         Section 0, Cell 1
```

### @protocol UITableViewDataSource<NSObject> #2

- (NSString \*)tableView:(UITableView \*)tableView
titleForHeaderInSection:(NSInteger)section;
//Tiêu đề cho Header của mỗi section

- (NSString \*)tableView:(UITableView \*)tableView
titleForFooterInSection:(NSInteger)section;
//Tiêu đề cho Footer của mỗi section

### @protocol UITableViewDataSource<NSObject> #2

```
- (B00L)tableView:(UITableView *)tableView
canEditRowAtIndexPath:(NSIndexPath *)indexPath;
```

- (BOOL)tableView:(UITableView \*)tableView
canMoveRowAtIndexPath:(NSIndexPath \*)indexPath;

# TABLE ROW

# HANDLE TABLE VIEW EVENTS

```
self.myTableView = [[UITableView alloc]
                        initWithFrame:self.view.bounds
                        style:UITableViewStylePlain];
self.myTableView.dataSource = self;
self.myTableView.delegate = self;
[self.view addSubview:self.myTableView];
                         protocol
                         UITableViewDataSource
                         protocol
                          UITableViewDelegate
                                           uses
                         conforms
                                                   UITableView
                   UIViewController
                                                                 http://techmaster.vn
```

(void)viewDidLoad {

[super viewDidLoad];

#### **Managing Selections**

- willSelectRowAtIndexPath:
- didSelectRowAtIndexPath:
- willDeselectRowAtIndexPath:
- didDeselectRowAtIndexPath:

#### **Reordering Table Rows**

- targetIndexPathForMoveFromRowAtIndexPath
- :toProposedIndexPath:

#### **Copying and Pasting Row Content**

- shouldShowMenuForRowAtIndexPath:
- canPerformAction:forRowAtIndexPath:withSender:
- performAction:forRowAtIndexPath:withSender:

#### **Header and Footer of Sections**

- viewForHeaderInSection:
- viewForFooterInSection:
- heightForHeaderInSection:
- heightForFooterInSection:

#### **Editing Table Rows**

- willBeginEditingRowAtIndexPath:
- didEndEditingRowAtIndexPath:
- editingStyleForRowAtIndexPath:
- titleForDeleteConfirmationButtonForRowAtIndexPath:
- shouldIndentWhileEditingRowAtIndexPath:

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