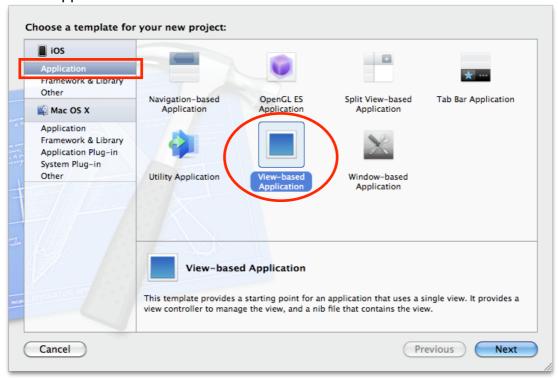
Lab MyEditor

在這個lab裡, 我們將學習到使用 text view 來實作一個簡單的text editor, 並且會學習到如何做 file I/O

Step 1. 在File>New>New Project開啟一個新的專案, 在iOS的Application目錄裡面選擇 view based application

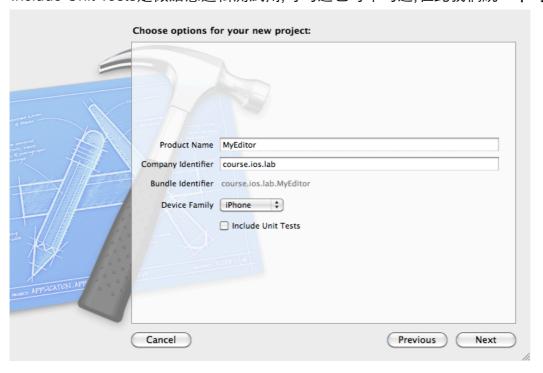


Step 2. 並將此專案命名為 MyEditor

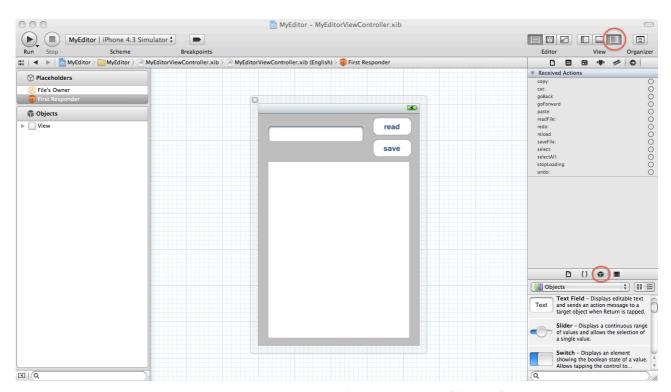
Company Identifier是填入Bundle的名稱,在此統一填入course.ios.lab (也可自行填入)

Device Family選擇iPhone

Include Unit Tests是做語意邏輯測試用,可勾選也可不勾選,在此我們統一不勾選,存檔



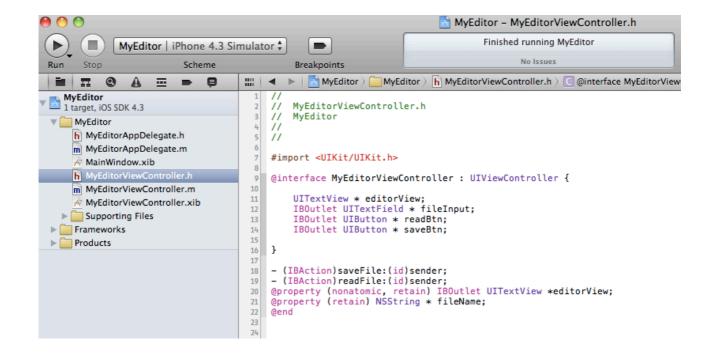
Step 3. Project建立完畢之後, 點選MyEditorViewController.xib, 並且在右上角喚出Show Utility. 接著如下圖 在View 上, 拉選左上角的一個 Text Field, 右上角的兩個 Button (read, save), 下方的 Text View.



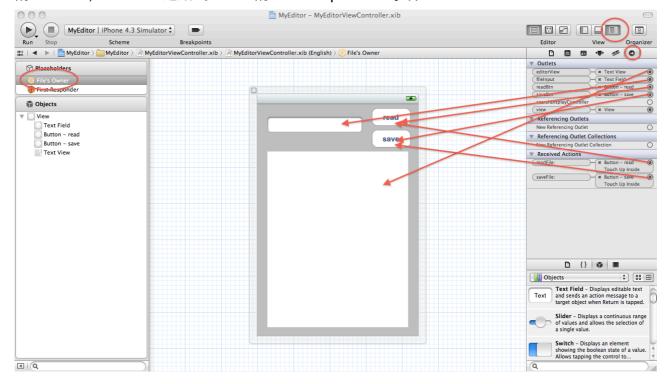
Step 4, 接著點選 MyEditorViewController.h, 定義 剛才在xib上拉選的物件: text field, text view, button. 兩個 button 動作: saveFile, readFile.

```
#import <UIKit/UIKit.h>
@interface MyEditorViewController : UIViewController {
    UITextView * editorView;
    IBOutlet UITextField * fileInput;
    IBOutlet UIButton * readBtn;
    IBOutlet UIButton * saveBtn;
}

- (IBAction)saveFile:(id)sender;
- (IBAction)readFile:(id)sender;
@property (nonatomic, retain) IBOutlet UITextView *editorView;
@property (retain) NSString * fileName;
@end
```



Step 5. 回到 MyEditorViewController.xib, 點選FileOwner 的 connections inspector. 將方才在MyEditorViewController.h中建立的物件與View上的物件做連結. 記得將 IBAction 的readFile, saveFile 連結到button的 Touch up inside 事件.



Step 6. 接著回到 MyEditorViewController.m, 實作我們要的動作.

```
首先先設定.
@synthesize editorView;
@synthesize fileName;
#define SCALEDOFFSET 200
接著在ViewDidLoad中設定鍵盤Notofication.
- (void)viewDidLoad
{
    [super viewDidLoad];
    [[NSNotificationCenter defaultCenter] addObserver:self
selector:@selector(keyboardAppeared:)
name:UIKeyboardWillShowNotification object:nil];
    [[NSNotificationCenter defaultCenter] addObserver:self
selector:@selector(keyboardHidden:) name:UIKeyboardWillHideNotification
object:nil];
}
然後在ViewDidUnload, 別忘了在View被 unload的時候, 養成好習慣, 要去釋放物件.
- (void)viewDidUnload
    [super viewDidUnload];
    [self setEditorView:nil];
    [fileInput release];
    fileInput = nil;
    [readBtn release];
    [saveBtn release];
接著實作鍵盤出現以及消失的時候的行為.
-(void) keyboardAppeared:(NSNotification *)noti{
    CGRect editorFrame = editorView frame ;
    editorFrame.size = CGSizeMake(editorFrame.size.width,
editorFrame.size.height - SCALEDOFFSET);
    [UIView animateWithDuration: 0.5 animations: ^(void) {
        editorView.frame = editorFrame;
    }];
-(void) keyboardHidden:(NSNotification *)noti{
    CGRect editorFrame = editorView frame ;
    editorFrame.size = CGSizeMake(editorFrame.size.width,
editorFrame.size.height +SCALEDOFFSET);
    [UIView animateWithDuration: 0.5 animations: ^(void) {
        editorView.frame = editorFrame;
    }];
```

}

接著實作 saveFile 這個IBAction, 首先先做個防呆機智, 判斷是否有輸入檔名, 若無則設定為預設值"lessonTest.txt", 接著注意, 在 設定 filePath 時, 必須設定本機的絕對路徑. 一個簡單的方法就是, 打開Finder, 找到自己的使用者名稱(在此例子為 Berby, 那麼絕對位置就是 /Users/Berby/, 請依照實作時的名稱來寫)



然後利用 NSFileManager 來將文字寫出.

```
- (IBAction)saveFile:(UIButton *)sender {

self.fileName = fileInput.text;
if ([self.fileName isEqualToString:@""]) {
 self.fileName = @"lessonTest.txt";
}

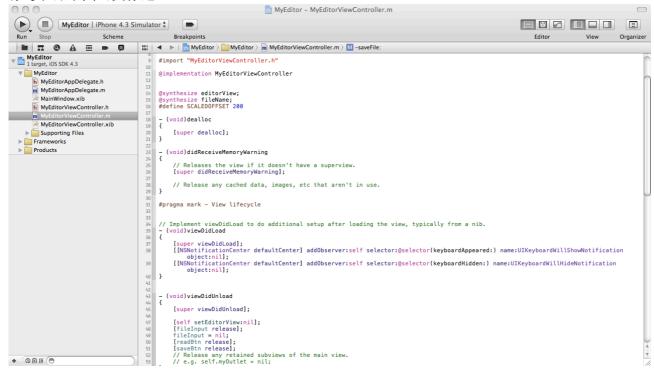
NSString * filePath = [NSString stringWithFormat:@"/Users/Berby/%@",
self.fileName];
// 要加上自己電腦的絕對路徑
[[NSFileManager defaultManager] createFileAtPath:filePath contents:
[editorView.text dataUsingEncoding:NSUTF8StringEncoding]
attributes:nil];
[editorView resignFirstResponder];
}
```

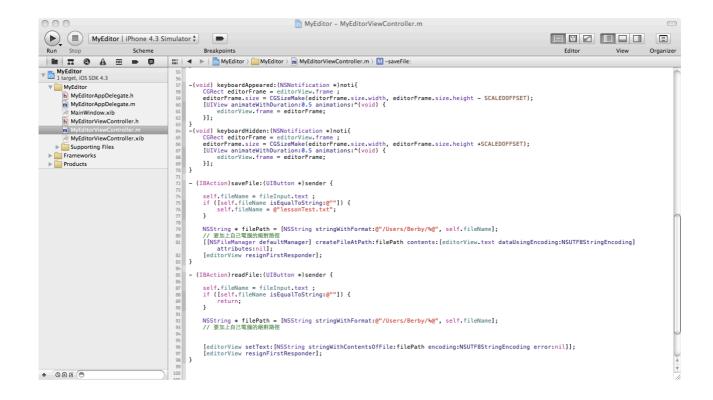
接著實作 readFile, 同樣的, 路徑也必須設定為絕對名稱. 在這裡, 我們將讀取到的文字填回 editorView.

```
- (IBAction)readFile:(UIButton *)sender {
    self.fileName = fileInput.text;
    if ([self.fileName isEqualToString:@""]) {
        return;
    }
    NSString * filePath = [NSString stringWithFormat:@"/Users/Berby/%@",
    self.fileName];
    // 要加上自己電腦的絕對路徑

    [editorView setText:[NSString stringWithContentsOfFile:filePath
    encoding:NSUTF8StringEncoding error:nil]];
    [editorView resignFirstResponder];
}
```

你可以如下圖去實作這些code.





Step 7. Run (第+R)

可以試著打入一些text, 然後save. 接著關掉程式重跑, 可以試著用指定的檔名將text再read回來



輸出的檔案可以利用方才設定的絕對路徑在Finder中找到. 我們可以把他點開來看看.

