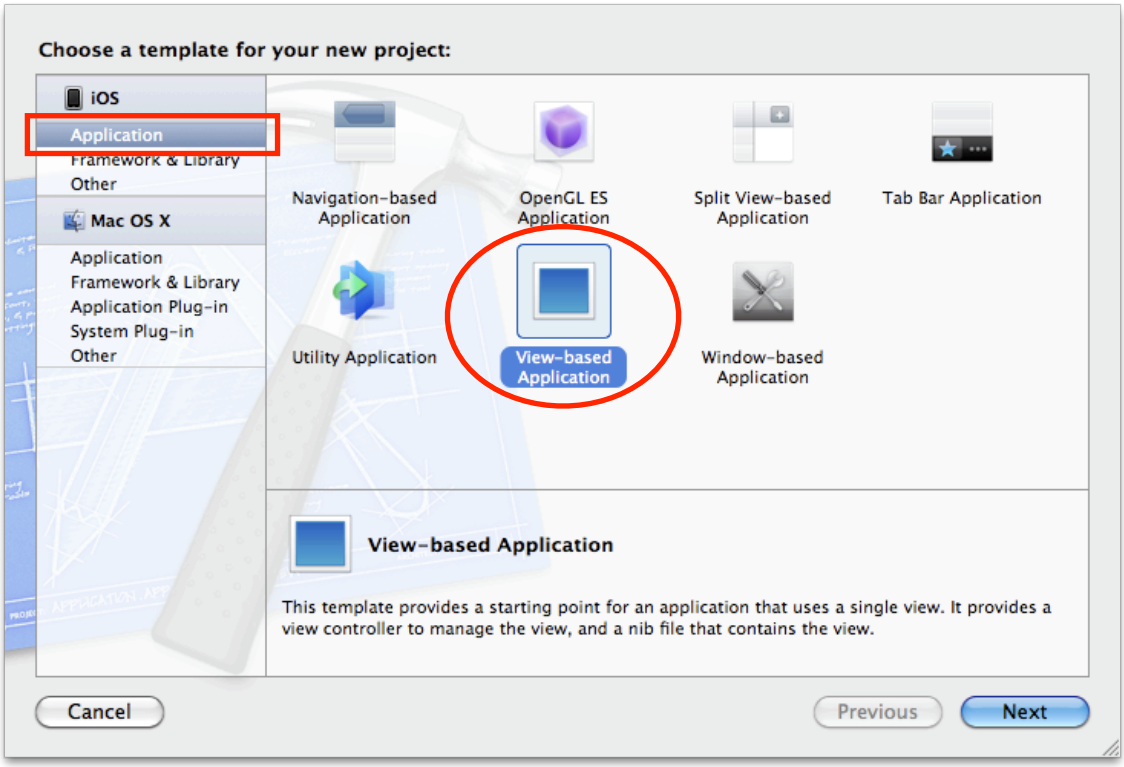
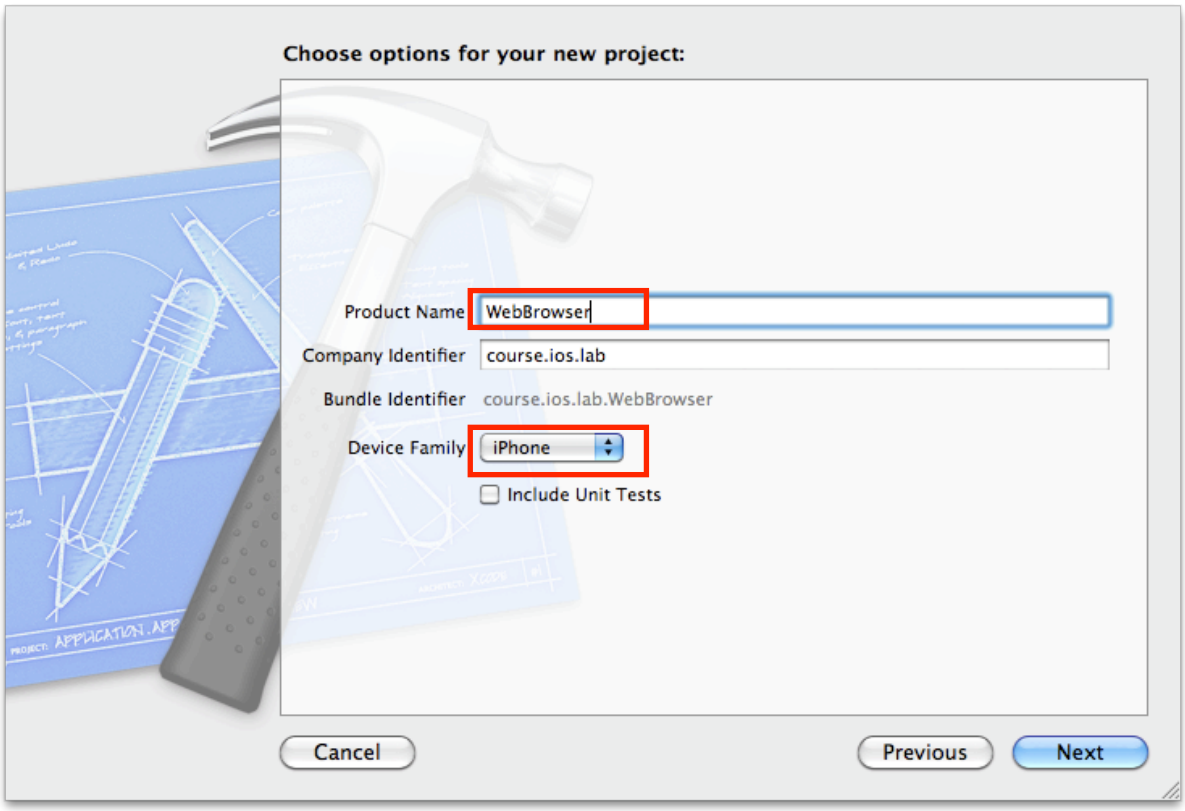
Lab WebBrowser

Step 1. 在 File>New>New File 開啓一個新的project, 選擇 View-based application



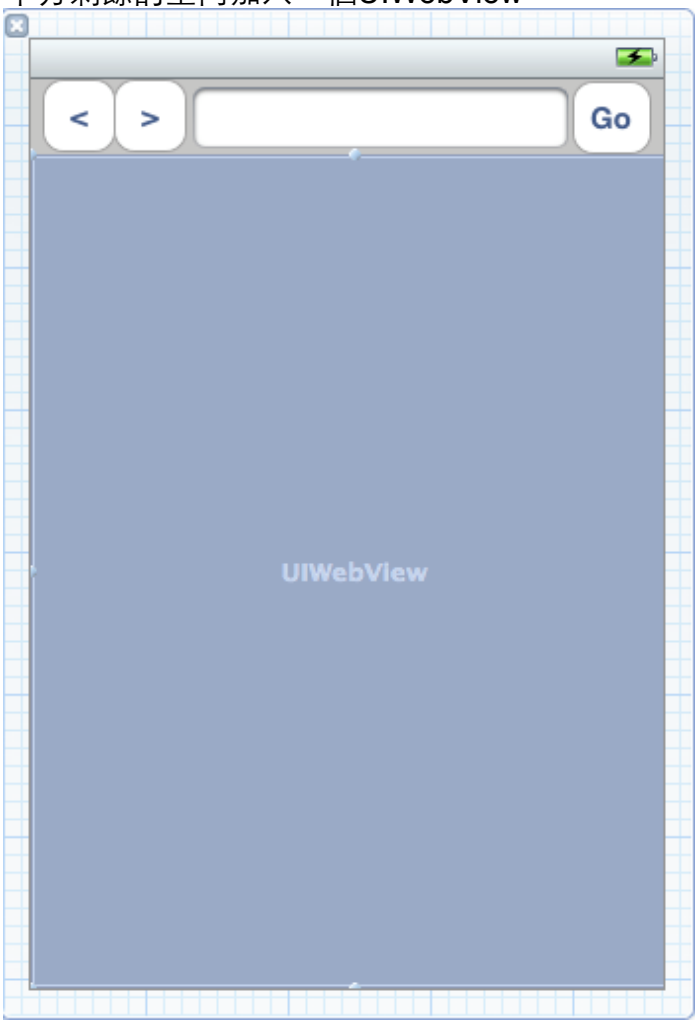
將project命名為 **WebBrowser**



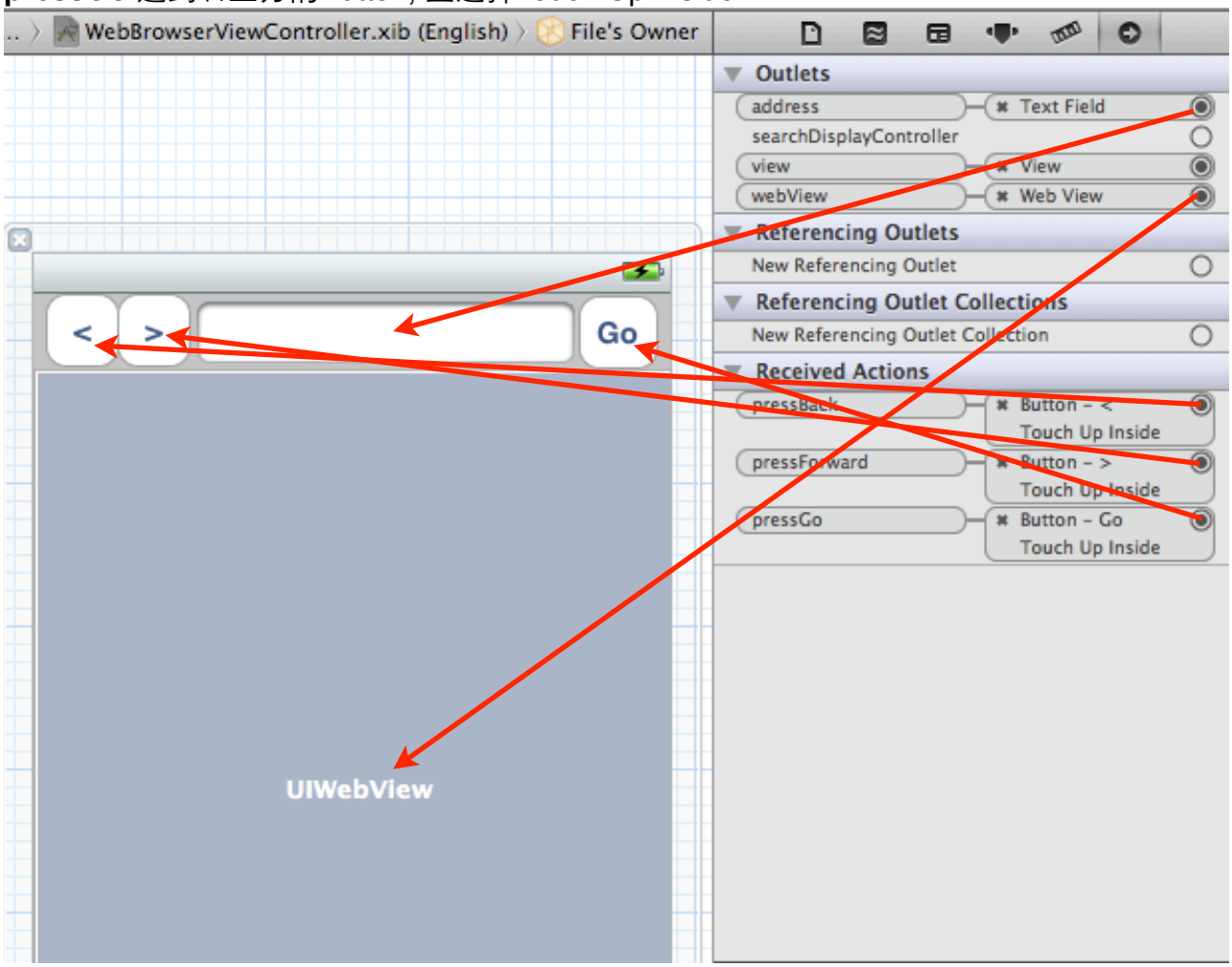
Step 2. 在 WebBrowserViewController.h 裡, 加入 <UIWebViewDelegate> 來遵循 UIWebView 的protocol, 並且加入View上對應的物件以及我們會使用到的變數,還有三個Button物件對應的IBAction

```
#import <UIKit/UIKit.h>

@interface WebBrowserViewController : UIViewController
<UIWebViewDelegate> {
    IBOutlet UIWebView *webView;
    IBOutlet UITextField *address;
    NSURL *url;
    UIActivityIndicatorView *spinner;
    UILabel *loadingLabel;
}

-(IBAction) pressGo;
-(IBAction) pressForward;
-(IBAction) pressBack;
@end
```

Step 3. 開啓 WebBrowserViewController.xib
分別在左上方以及右上方加入三個Button,分別將Title命名為 “<“ 以及 “>” , 以及 “Go”
在正上方加入一個UITextField
下方剩餘的空間加入一個UIWebView



Step 4. 同樣在 WebBrowserViewController.xib 並且將對應的物件還有IBAction做連結
address 連到正上方的UITextField
webview 連到下方的UIWebView
pressBack 連到左上方左邊的Button, 並選擇Touch Up Inside
pressForward 連到左上方右邊的Button, 並選擇Touch Up Inside
pressGo 連到右上方的Button, 並選擇Touch Up Inside



Step 5. 在WebBrowserViewController.m裡實作 pressGo{}, pressForward{} 和 pressBack{}

```
-(IBAction) pressGo{
     NSLog(@"Go");
     url = [NSURL URLWithString:address.text];
     [webView loadRequest:[NSURLRequest requestWithURL:url]];
     [address endEditing:YES];
}

-(IBAction) pressForward{
     NSLog(@"Forward");
     [webView goForward];
}

-(IBAction) pressBack{
     NSLog(@"Back");
     [webView goBack];
}
```

Step 6. 同樣的在WebBrowserViewController.m裡, 將 ViewDidLoad 這個Method的Mark去掉, 加入webView的預設值和Delegation

```
- (void)viewDidLoad {
    [super viewDidLoad];
     webView.delegate = self;
     webView.scalesPageToFit = YES;
}
```

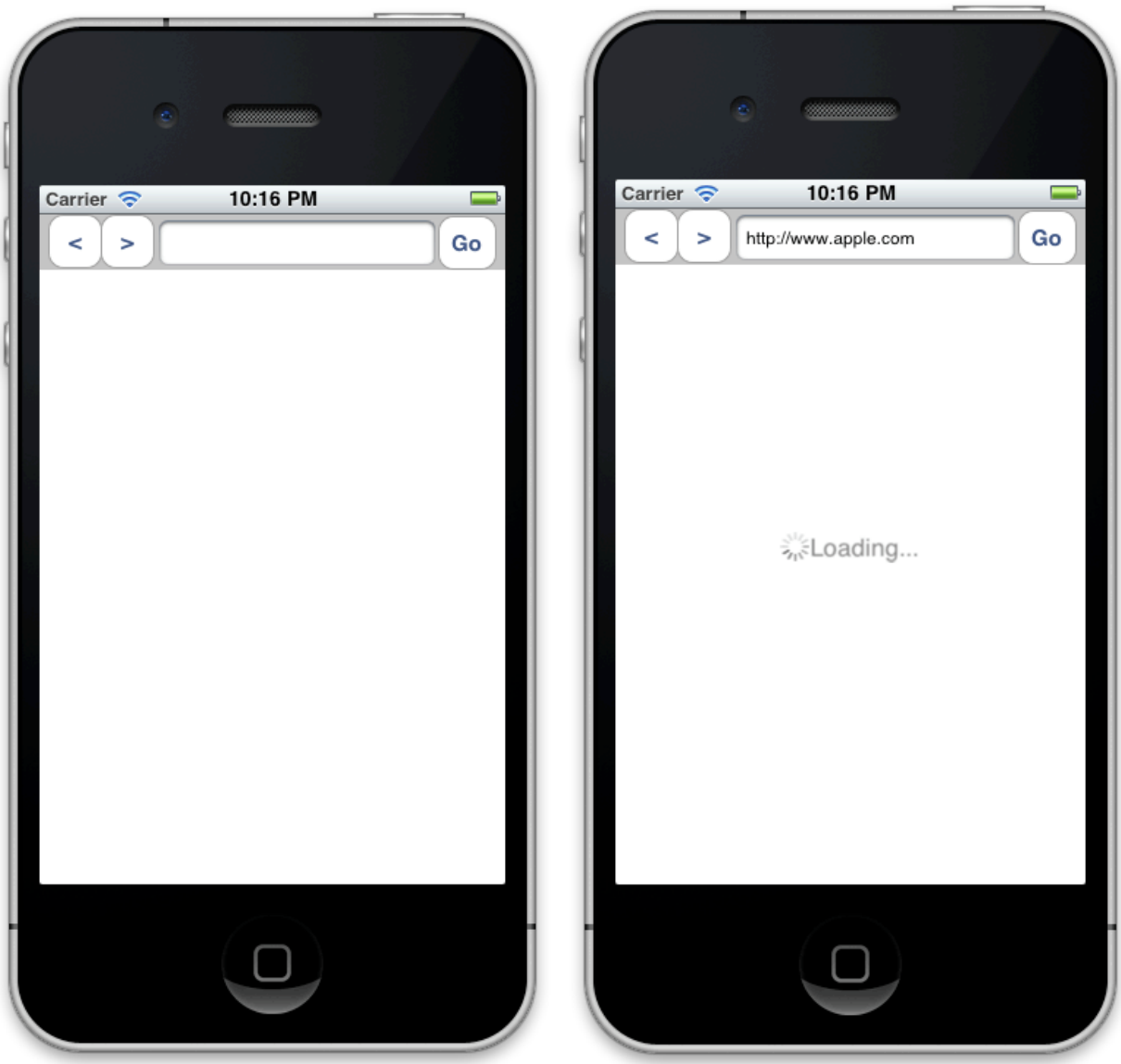
Step 7. 同樣的在WebBrowserViewController.m裡,
加入 - (void)webViewDidStartLoad:(UIWebView *)webView{}
來當網頁正在Loading時,顯示Loading字樣

```
- (void)webViewDidStartLoad:(UIWebView *)webView{
     if (!spinner) {
           spinner = [[UIActivityIndicatorView alloc]
initWithActivityIndicatorStyle:UIActivityIndicatorViewStyleGray];

           loadingLabel = [[UILabel alloc] init];
           loadingLabel.text = @"Loading...";
           loadingLabel.textColor = [UIColor grayColor];
           [loadingLabel sizeToFit];

           CGFloat totalWidth = spinner.frame.size.width +
loadingLabel.frame.size.width;

           CGRect frame1 = spinner.frame;
           frame1.origin.x = (self.view.bounds.size.width - totalWidth) /
2.0;
           frame1.origin.y = (self.view.bounds.size.height -
frame1.size.height) / 2.0;

           CGRect frame2 = loadingLabel.frame;
           frame2.origin.x = (self.view.bounds.size.width - totalWidth) /
2.0 + frame1.size.width;
           frame2.origin.y = (self.view.bounds.size.height -
frame2.size.height) / 2.0;
           spinner.frame = frame1;
           loadingLabel.frame = frame2;

           [spinner startAnimating];
           [self.view addSubview:spinner];
           [self.view addSubview:loadingLabel];
     }
}
```

Step 8. 同樣的在WebBrowserViewController.m裡,
以及 - (void)webViewDidFinishLoad:(UIWebView *)webView{}
當網頁Loading完成時,關閉Loading字樣

```
- (void)webViewDidFinishLoad:(UIWebView *)webView{
    if (spinner) {
        [spinner stopAnimating];
        [spinner removeFromSuperview];
        [spinner release];
        spinner = nil;

        [loadingLabel removeFromSuperview];
        [loadingLabel release];
        loadingLabel = nil;
    }
}
```

Step 9. Run (⌘+R)



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