

IOS - NAVIGATION BAR

http://www.tutorialspoint.com/ios/ios_ui_elements_navigation_bar.htm

Copyright © tutorialspoint.com

Use of Navigation Bar

Navigation bar contains the navigation buttons of a navigation controller, which is a stack of view controllers which can be pushed and popped. Title on the navigation bar is the title of the current view controller.

Sample Code and Steps

Step 1. Create a view based application.

Step 2. Now, select the App **Delegate.h** and add a property for navigation controller as follows –

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

@class ViewController;

@interface AppDelegate : UIResponder <UIApplicationDelegate>

@property (strong, nonatomic) UIWindow *window;

@property (strong, nonatomic) ViewController *viewController;

@property (strong, nonatomic) UINavigationController *navController;

@end
```

Step 3. Now update the **application:didFinishLaunchingWithOptions:** method in **AppDelegate.m** file, to allocate the navigation controller and makes it window's root view controller as follows –

```
- (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
    self.window = [[UIWindow alloc] initWithFrame:
    [[UIScreen mainScreen] bounds]];
    // Override point for customization after application launch.
    self.viewController = [[ViewController alloc]
    initWithNibName:@"ViewController" bundle:nil];
    //Navigation controller init with ViewController as root
    UINavigationController *navController = [[UINavigationController alloc]
    initWithRootViewController:self.viewController];
    self.window.rootViewController = navController;
    [self.window makeKeyAndVisible];
    return YES;
}
```

Step 4. Add a new class file **TempViewController** by selecting **File -> New -> File... -> Objective C Class** and then name the Class as TempViewController with subclass UIViewController.

Step 5. Add a UIButton **navButon** in **ViewController.h** as follows –

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

@interface ViewController : UIViewController
{
    UIButton *navButton;
}
@end
```

Step 6. Add a method **addNavigationBarItem** and call the method in **viewDidLoad**.

Step 7. Create a method for navigation item action.

Step 8. We also need to create another method to push another view controller TempViewController.

Step 9. The updated **ViewController.m** is as follows –

```
// ViewController.m
#import "ViewController.h"
#import "TempViewController.h"
@interface ViewController ()

@end
@implementation ViewController

- (void)viewDidLoad
{
    [super viewDidLoad];
    [self addNavigationBarButton];
    //Do any additional setup after loading the view, typically from a nib
}

- (void)didReceiveMemoryWarning
{
    [super didReceiveMemoryWarning];
    // Dispose of any resources that can be recreated.
}

- (IBAction)pushNewView:(id)sender{
    TempViewController *tempVC = [[TempViewController alloc]
initWithNibName:@"TempViewController" bundle:nil];
    [self.navigationController pushViewController:tempVC animated:YES];
}

- (IBAction)myButtonClicked:(id)sender{
    // toggle hidden state for navButton
    [navButton setHidden:!nav.hidden];
}

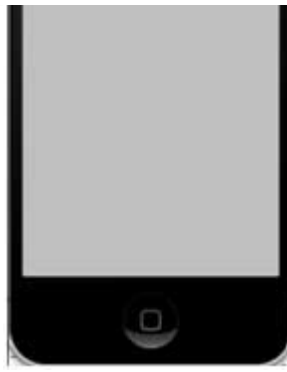
- (void)addNavigationBarButton{
    UIBarButtonItem *myNavBtn = [[UIBarButtonItem alloc] initWithTitle:
@"MyButton" style:UIBarButtonItemStyleBordered target:
self action:@selector(myButtonClicked:)];

    [self.navigationController.navigationBar setBarStyle:UIBarStyleBlack];
    [self.navigationItem setRightBarButtonItem:myNavBtn];

    // create a navigation push button that is initially hidden
    navButton = [UIButton buttonWithType:UIButtonTypeRoundedRect];
    [navButton setFrame:CGRectMake(60, 50, 200, 40)];
    [navButton setTitle:@"Push Navigation" forState:UIControlStateNormal];
    [navButton addTarget:self action:@selector(pushNewView:)
forControlEvents:UIControlEventTouchUpInside];
    [self.view addSubview:navButton];
    [navButton setHidden:YES];
}
@end
```

Step 10. When we run the application we'll get the following output –





Step 11. On clicking the navigation button MyButton, the push navigation button visibility is toggled.

Step 12. On clicking the push navigation button, another view controller is pushed as shown below.

