



# Pace University - PCBT

Advanced iOS Class Spring 2015

# UI and UX

- + This lecture will provide a background and context for using combining important building blocks within your iOS Apps.
- + We will discuss the best practices in doing so.
- + This lecture will also discuss many key topics such as navigating with multiple storyboards .
- + The lecture should be accompanied by an XCode exercise creating several projects implementing the topics.

# What are the typical UI components?

- + Multiple Application States (at least 1)
- + Possibly - A flow to sign in, wizard, or sign up.
- + Probably - Some CORE navigation system – Tabs or Navigation controller.
- + Alerts – UIAlertController including Progress / Guides
- + Progress overlays – Add a subView from a Controller

# This is a CORE Screen

UBER

DRIVER CONFIRMED AND EN ROUTE



FEBRUARY 18, 09:57 PM

₱329.00

TOTAL CHARGED : ₱164.50

TRIP SUMMARY

ARRIVAL TIME

PROFESSIONALISM

DRIVING

TRIP ROUTE

CAR QUALITY

OTHER

Optional comments

SUBMIT

# This is Signup

The image shows a composite screenshot of the Uber sign-up process across three screens:

- SIGN IN:** Shows fields for Email (name@example.com) and Password. A "FORGOT PASSWORD?" link is visible.
- VERIFY ACCOUNT:** Shows a placeholder for a profile picture, the name "First Bob Last Pascazio", and a numeric keypad for entering a verification code. It also includes options to "scan your card" or "enter promo code".
- LINK PAYMENT:** Shows a placeholder for a credit card and a "PayPal" button.

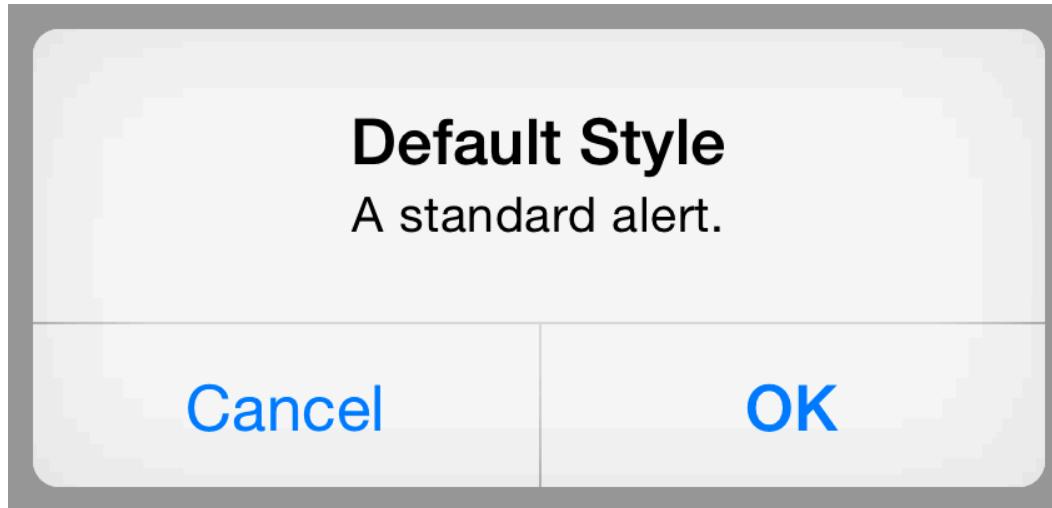
At the bottom, a note states: "We use your email and mobile number to send you account confirmation and other important information." Below this is a numeric keypad with the following layout:

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
+ * #	0	✖

At the very bottom, a note says: "By creating an Uber account, you agree to the Terms & Conditions and Privacy Policy".

# What is an Alert – The Old Way

- + UIAlertView and UIActionSheet (as well as their respective delegate protocols) are deprecated in iOS 8
- + Use UIAlertController with a preferredStyle of UIAlertControllerStyleAlert instead.



# What is an Action Sheet – The Old Way

Takes the appearance of the bottom bar if specified;  
otherwise, same as `UIActionSheetStyleDefault`.

Destroy

OK

Cancel

# iOS 8 Break

- + UIAlertController give you full power to customize your AlertView.
- + If you have an app in app store that is using UIAlertView, your app will be broken in iOS 8.

# How do we control the major modes – in AD you can change the initial VC?

```
[ [PACEUserManager sharedManager] loadUser];

if ( [PACEUserManager sharedManager].user) {

    UIStoryboard *mainStoryboard = [UIStoryboard
storyboardWithName:@"Main" bundle: nil];

    PACETabBarController *tabBarController =
(PACETabBarController *) [mainStoryboard
instantiateInitialViewController];

    //set the root controller to it

    self.window.rootViewController =
tabBarController;

}
```

# But in the Project go to Portal

## Project Info

Deployment Target 8.0

Devices iPhone

Main Interface Portal

Device Orientation  Portrait

Upside Down

Landscape Left

Landscape Right

Status Bar Style Default

Hide status bar

# How do we save state? - UserDefaults

- + Blue means all your constraints are set properly. Orange lines means that something is missing.
- + <http://www.codingexplorer.com/nsuserdefaults-a-swift-introduction/>
- + `let defaults = UserDefaults.standardUserDefaults()`
- + `defaults.setObject("Coding Explorer", forKey: "userNameKey")`

# Going to a second Storyboard?

```
[self performBlock:^{
    [self pushToStoryBoardWithName:@"Selfie" withAnimation:YES];
} afterDelay:0.3];
```

# How to then replace it all?

- + [self presentStoryBoardWithName:@"Main"  
withModalTransitionStyle:UIModalTransitionStyleFlipHorizontal  
andCompletion:nil];

# NSNotificationCenter

- + NSNotificationCenter.defaultCenter().postNotificationName("NotificationIdentifier", object: nil)
- + NSNotificationCenter.defaultCenter().addObserver(self, selector: "methodOfReceivedNotification:", name:"NotificationIdentifier", object: nil)
- + NSNotificationCenter.defaultCenter().removeObserver(self, name: "NotificationIdentifier", object: nil)

```
func methodOfReceivedNotification(notification: NSNotification){  
    //Action take on Notification  
}
```

# How do we keep our code clean?

- + #pragma mark directives show up in Xcode in the menus for direct access to methods. They have no impact on the program at all.
- + Keep storyboards and view controller together.
- + Images in Asset Catalogs.

# Asset Catalogs

- + [https://developer.apple.com/library/ios/recipes/xcode\\_help-image\\_catalog-1.0/Recipe.html](https://developer.apple.com/library/ios/recipes/xcode_help-image_catalog-1.0/Recipe.html)



# End of Lecture

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