

# iOS App Development Level 2

Advanced your iOS development skills. Build an app with multiple view controllers that interacts with an outside database. Integrate with Apple's Mapkit and Firebase, and link to content on the web.

Group classes in NYC and onsite training is available for this course. For more information, email [hello@nobledesktop.com](mailto:hello@nobledesktop.com) or visit: [nobledesktop.com/classes/ios-app-development-with-swift-level2](https://nobledesktop.com/classes/ios-app-development-with-swift-level2)



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## Course Outline

### Section 1

#### Hello World: Starting a Simple App

- Creating a Single View Application
- Getting to Know Xcode's Interface
- Creating a Label and Button
- Document Outline: View vs View Controller

#### Hello World: Making a Button Change Some Text

- Assistant Editor
- ViewController.m vs .h
- Creating an Outlet for the Text
- Creating a Method for the Button
- @synthesize
- Testing the App in the iOS Simulator

#### Hello World: Making Label Initially Blank

- Using Xcode's Help
- Removing the Initial Label Text

### Section 2

#### Hello World: Intro to Swift

- Creating a Class
- Defining Properties
- Error Alerts
- Methods

- @property Modifiers: strong/weak & nonatomic/atomic
- @synthesize

## Hello World: Finishing Up

- Instantiation
- Creating Outlets
- Dot Notation vs. Getter and Setter Methods
- Placeholders for Values
- First Responder, Delegates & Dismissing the Keyboard
- Debugger Area and Breakpoints

## Creating Simple Cells and Managing Retina Images

- Adding Cells to the Table View
- Adding Images
- Adding Retina Images

# Section 3

## Building a Table View Controller

- Creating a Class and Connecting it to the Storyboard
- Adding Properties for the Band Data
- Editing the Three DataSource Protocol Methods

## The Navigation Controller

- Navigation Controllers
- Setting the Initial View Controller
- Setting the Root View Controller
- Adding the Detail View Controller
- Segues

## Creating the Band Detail View

- Adding Label Objects
- Adding View Objects
- Changing Text Properties
- Adding a Divider Line
- Adding the Band Images

# Section 4

## Segues Part 1

- What Is a Segue?
- prepareForSegue Method
- Band Detail Object

## Segues Part 2: Passing Objects

- NSMutableArray vs NSArray
- Creating a Mutable Array
- Connecting Band Detail Outlets in Code

## Tab Bar Controller

- Creating a Tab Bar Controller
- Using an Apple-Provided Tab Icon
- Using a Custom Tab Icon

## Creating a Location Map

- Adding the MapKit Framework
- Adding a Map View
- Setting a Specific Location on the Map
- Defining Location Coordinates

## Section 5

### Linking to an External Webpage

- Creating the Web View Controller
- Coding the Link to the Webpage
- Adding a Button Linking to the Webpage
- Making the Webpage Scale to Fit

### Embedding Video into the App

- Adding a Video
- Moving the Video to the Band Detail

### Setting the Video for Each Band

- Adding a videoURL Property
- Defining videoURL for bandDetail Objects
- stringWithFormat Method

### Customizing the App for iPad

- Creating a New iPad Storyboard
- Setting the Interface Orientation

## Section 6

Making the App Real World

### Setting up a Model

- Creating a Model
- Converting Code to Function Generically

### Connecting to the Real World

- Creating a Parse Account
- Creating a Parse App
- Importing Parse
- Creating a Dataset on Parse
- Connecting Your Model with Parse

### Connecting the View Controller with the Model

- Talking Back and Forth with the Model

- Handling Data Error
- Adding UI to Allow the User to Refresh Data

## **Additional Topics**

### **Creating the Split View Controller**

- Adding a Split View Controller
- Connecting and Reordering the View Controllers

### **Programming the Split View Controller**

- Connecting the Master and Detail View Controllers
- Setting an Initial Detail View
- Using the viewDidLoad Method

### **Fixing the iPad Layout**

- Fixing the Detail View for iPad
- Finding Elements that Seem to Have Disappeared

### **App Settings: Icons & Launch Images**

- Preparing the Assets
- Adding App Icons & Launch Images