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iOS Application Developer



Course Guide

iOS (formerly **i**Phone **OS**) is a mobile operating system created and developed by Apple Inc. exclusively for its hardware. It is the operating system that presently powers many of the company's mobile devices.



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iOS Course Contents

iOS curriculum designed to meet the requirements of next generation mobile programming needs.

Swift Language Constructs

- Why another language by Apple?
- Swift 1.0, 2.0, 2.2 and now 3.0
- Data types and modifiers
- The for Statement
- The if Statement
- The while and do while Statements
- The switch Statement
- The break Statement
- Constants
- Operators
- Casts and Conversions
- Keywords
- Arrays

Object-Oriented Programming

Classes

- Functions
- Properties
- Constructors
- Protocols

Exceptions

- Exception Handling
- The Exception Hierarchy

Threads

- Threads vs. Processes
- Creating Threads by Extending Thread
- Creating Threads by Implementing Runnable
- Advantages of Using Threads

iOS App Concepts iOS Framework and XCode Introduction

- What's new in iOS 10
- Model View Controller (MVC)
- Pre-requisites for iOS Application Development
- Installing XCode and the iOS SDK
- iOS Simulators
- iOS Developer Account
- Lab 1: Creating Your First Application

iOS Application basics

- Xcode Project Structure
- The Storyboard
- Products
- Frameworks
- Xcode Project Settings
- Targets
- The P List file

Lab 2: Controlling a Camera's Flash Light Storyboards, ViewController and Views

- Views in a Storyboard
- ViewController
- Auto Layout
- Constraints

Lab 3: Creating a View in SB that fits all iPhone/iPad Screens Presentations and Transitions

- Presenting a View Controller
- Presentation Styles
- Transition Styles
- Segues
- Segues between VCs
- Modify Segues default behavior
- Implement custom Segue

Lab 4: Make a phone Book Application

Core Data

- What is Core Data
- No SQL?
- Managed Object model
- Entities, Attributes and relationships
- Creating and Saving Managed Objects
- Fetching Objects
- Modifying Managed Objects
 Lab 5: Creating a persistent Contacts list

Storage and Background processing

- User Defaults
- File I/O

- Get saved data via iTunes
- Connecting to the internet

Background Processing

- Lab 6: Quotes Provider Application Notifications
- Toasts
- UINotificationRequest
- Create a UINotificationRequest
- Getting the request details
- NSNotification Centre
- Notification Observers
- Posting a notification

Lab 6: Implementing iOS Notifications Accessing Phone Hardware

- Take picture with a Camera
- Record Audio with the microphone
- Accessing the Motion Sensors
- Interacting with Wifi

Lab 7: A Geo Tagging photo App. Core Bluetooth

- Classic and BLE
- MFI program
- BLE Central and Peripheral
- GATT
- Apple Watch

Lab 8: A BLE enabled application that uses TI's SensorTag to detect how hot is your Coffee

Creating New Images Using Bitmap Graphics Contexts

Real-time examples will be given throughout the

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Map Kit & Core Location

- Basics
- Beacons and Beacon Regions
- Getting User's Location

Core Image & Graphics

Animating an Object

Practical Approach

• GeoFencing

Introduction

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lectures.

Displaying Locations on Map
Core Location Best Practices

Lab 9: A Geo fencing Application

drawing lines and basic shapes

Lab 10: Making a Graph Application