CREDO SYSTEMZ
Simplifying IT

IOS SWIFT PROGRAMMING TRAINING

Section 1 : Swift Overview Basic OOPs Concepts

- Classes
- Objects
- Properties
- Methods
- Access Control
- Encapsulation
- Abstraction
- Inheritance
- Method overriding, Method overloading
- Polymorphism

Section 2 : Introduction to Swift

- Why Swift
- Swift vs. Objective-C
- Swift language principles

Section 3 : Variables, Types, and Control Flow

- Variables and constants
- Built-in types
- Conditional statements
- Basic loops
- Optional Types

Section 4 : Optional Types

- Optional variables
- Testing and unwrapping

Section 5 : Collections

- Arrays
- Dictionaries
- Sets
- Tuples

Section 6 : Functions and Closures

- Basic functions
- Higher-order functions
- Closures

Section 7 : Classes and Structures

- ➢ Class
- ➢ Struct
- ➢ Properties
- ➢ Initialisers
- ➢ Methods
- ➢ Access modifiers
- ➢ Property observers

Section 8 : Design Pattern

- ➢ MVC
- ➢ MVVM
- ➢ Singleton
- ➢ Delegates

Section 9 : Web Services

- ➢ REST API Service Call
- ➢ Asynchronous and synchronous request
- ➢ JSON and XML Parsing
- ➢ Error handling

Section 10 : Multi Treading

- ➢ NSOperation and NSOperationQueue
- ➢ GCD(Grand Central Dispatch)
- ➢ Asynchronous and Synchronous

Section 11 : Memory Management

- ➢ Automatic reference counting (ARC)
- ➢ Reference cycles
- ➢ Weak and Unowned References

Section 12 : iOS Major Concepts

- ➢ App Delegate
- ➢ Application Life Cycle
- ➢ View Controller & Navigation Controller
- ➢ View Life cycle
- ➢ Storyboard, Auto layout, Size Classes
- ➢ Protocol, Delegates & Notifications
- ➢ Optional Values, Unwrapping,
- ➢ Generics, Closures, Extensions
- ➢ Remote Notifications & Local Notifications

Section 13 : Basic Cocoa Touch Frameworks

- ➢ UIKit Framework
  - View, Label, Button, Text Field
  - Table View, Collection View
  - Scroll View, Text View, Image View
  - Alert View, Picker View, Action Sheet
  - Map View, Web View
  - Status Bar, Navigation Bar, Tool Bar, Tab Bar, etc

- ➤ Foundation Framework
- ➤ Core Location Framework
- ➤ Core Data Framework
- ➤ MapKit Framework
- ➤ Social Framework, Account Framework
- ➤ AV Foundation, Core Audio, Core Media

Section 14 : Debugging

- ➤ Debugging
- ➤ Testing
- ➤ Memory Leak
- ➤ Running in devices

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