iOS With Swift

Duration - 2   Months

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✧ **Introduction**
✧ **Variables and Constant in SWIFT**
- Understand variable declaration
- Understanding syntax for variable declaration
- Type defining the variable
- Understanding constant declaration
- Syntax for declaring the constant
- Understanding Type Annotation
- Type Alias and its important
- Tuples and it's befinits
- How values are interpreted in print statement
- Understanding Optional Variables concepts
- Understanding Implicit Optional UnWrapping concepts

✧ **Operators and Collection Type in Swift**
- Understand changes in some of the operators
- Understanding Array and Dictionary in Swift
- Control Flow and Loops in Swift
- Understand If, If Else If and Switch statements in Swift
- Understanding various looping options in Swift

✧ **Functions or Methods, Closure and Subscripts in Swift**
- Understanding Method declaration and parameters
- Understanding Functions as Type
- Talk about Functions as parameters
- Talk functions as returned type

- Nesting of function definition. Implementing functions within the functions
- Talk about Closure concepts
- Talk about Subscripts

✧ **Classes and OOPs concepts in SWIFT**
- How Class is declared in SWIFT
- Class file structure in SWIFT
- How Factory design patterns works in SWIFT
- Talk about Initializer and deinitializer

✧ **Properties and Protocols in SWIFT**
- Talk about properties
- Talk about properties in SWIFT
- How properties play vital role in memory management
- Talk about Initializer and deinitializer
- Talk about Protocols in Swift

✧ **Automatic Reference Counting in SWIFT**
- ARC concepts in SWIFT
- Strong Reference between instance of Classes
- Talk about references and Closure
- Talk about open chaining

✧ **Type Casting in SWIFT**
- Talk about ANY
- Talk about ANYObject
- Talk about Nested Type
- Talk about Generic Types and Functions

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- ✧ **Application setup in SWIFT**
  - ● Talk about the various classes created on Project creation
  - ● Understand AppDelegate class

- ✧ **UIKIt and SWIFT**
  - ● Talk about UIView Hierarchy
  - ● Talk about various UI components
  - ● Play with some of the UI elements

- ✧ **Application architect of iOS Application**
  - ● Talk about Single View Application
  - ● Talk about Multi Controller Applications
  - ● Type of multicontroller applications Implement some project with various Application Architech

- ✧ **Understand working with playground**

- ✧ **Understand working with Xcode**

- ✧ **Writing app using storyboards**

- ✧ **Understand Model View Architecture**

- ✧ **Create user interface using UISegmentControl, UITextView, UIScrollView , UIImageView,**

- ✧ **UIAlertView and UIActionSheet**

- ✧ **Implement Tableview and Tableview customization**

- ✧ **Understand and use Gestures**

- ✧ **Understanding Animation**

- ✧ **Integrate Audio and Video**

- ✧ **Understand Layouts**

- ✧ **Integrate GPS and MAP View**

- ✧ **Integrate third party libraries**

- ✧ **Understand data storage using SQLite**

- ✧ **Understand CoreData**

- ✧ **Understand plist**

- ✧ **Understand Webviews**

- ✧ **Integrate with Facebook Login**

- ✧ **Integrate with other social media application**

- ✧ **Integrate Webservices and understand Parsers**

- ✧ **Understand Apple push Notification**

- ✧ **Upload iOS app to App Store**

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