

# ASPIRE TECHSOFT PVT. LTD.

ISO 9001: 2015 Certified Training Institute

## iPhone

**Duration: 60 hours**

**Batches: Regular/ Weekends**

### **Objective C**

- Classes , Properties , Categories and Protocols.
- Control statements and loops in objective C
- Working with Arrays and Dictionaries
- Working with Foundation Classes
- Understanding run-time environment.

### **Memory Management**

- Understanding the Memory leaks.
- Reference Counting algorithm.
- ARC

### **iPhone SDK**

- Introduction to iPhone SDK.
- Introduction to xcode.
- COCOA Touch Framework.
- iOS Application Architecture.

### **Views and Views Controller**

- View
- ViewController
- View Life cycle.
- Basic Controls - Labels, Button , TextField , Slider etc

### **Advanced Views and Controller**

- TableView
- TableView Controller
- Picker View , Date Picker
- Scroll View
- Web View
- Navigation and Tabbar Controller

### **Interface Builder**

- Understanding Interface builder
- Understanding XIB files.
- Creating Outlets and Actions.

### **Data Storage**

- Directory structure of an iOS App.
- Using SQLite database.
- Using Core Data .
- Property List.
- User Defaults

### **XML and Web Services**

- XML Parser .
- JSON Parser.
- SOAP based web service
- REST web service.

## Touches and Gestures

- Handling the touch events.
- Handling Gestures.

## Multimedia

- Playing Audio file.
- Playing short sounds.
- Playing Video on iPhone.

## Maps

- Displaying Map in iOS App.
- Working with Pin Annotations.
- Handling the Map region.

## Working with Storyboard

- Using Storyboard to design the app.
- Using Segues
- Passing data from One Controller to another

## Handling Different Screen Sizes

- Programmatically controlling the views
- Using springs and struts model
- AutoLayout

## Multithreading

- Multithreading in an iOS App
- Using NSThread
- Using GCD ( Grand Central Dispatch )

## Notifications

- NSNotification and NSNotificationCenter
- Working with UILocalNotifications
- APNS ( Apple Push Notification Service ) Overview

## Using Camera

- Capturing image using camera
- Getting the images from the Image Gallery.

## Accessing Device Sensors

- Accelerometer
- GPS

## Mails and SMS

- Sending mail and SMS from an App.

## Transitioning to the iPad

- SplitView Controller
- PopOver Controller

## Deployment

- Installing and testing an App on iOS Device.
- Publishing an app to the Appstore