

# Advanced iOS Mobile Applications Development

## Course Description

This 6-day Advanced iOS Mobile Development Course is designed for experienced Developers who have already begun developing iOS Apps, who wish to utilize advance programming techniques. This course will teach you advance technologies such as data management, gesture recognition, integration of cloud services, app distribution, and App Store submission.

## Audience

The training is designed to cater to everyone interested in learning iOS Mobile App Development.

## Pre-Requisite:

Attended the Basic iOS Mobile Application Development Course.

## Course Objective:

Upon completion of this course, you will be able to:

1. Apply native frameworks to build simple and complex applications.
2. Use core data to handle advance data management.
3. Be able to deploy iOS Apps to Apple App Store.



## Course Outline

### I. Advanced iOS 10 App Development Essentials (5 Hours)

- a. User Interface Components
  1. Navigation Bar
  2. Tab Bar
  3. ToolBar
  4. Bar Button Items
  5. Activity Indicator
  6. Date Picker
  7. Scroll View
  8. Picker View
  9. Progress View
  10. Page Control
  11. Delegate and Protocol
  12. Table View and Table View Controller
  13. Custom Table View

### II. Design Pattern (3 Hours)

- a. Model View Controller Design Patterns
  1. Model Group
  2. View Group
  3. Controller Group

### III. Data Management (8 Hours)

- a. SQLite
- b. Core Data
- c. Realm
  1. Configuring XCode and Tools needed
    - 1.1. CocoaPods
    - 1.2. Creating Realm Database Model Classes
    - 1.3. Creating Realm Properties
    - 1.4. Creating Realm Relationship
    - 1.5. Creating Primary Key
    - 1.6. Creating Indexed Properties
    - 1.7. Creating Realm Objects
    - 1.8. Adding Objects in Realm
    - 1.9. Updating Objects in Realm

- 1.10. Creating and Updating Objects with Primary Key
  - 1.11. Deleting Objects in Realm
  - 1.12. Creating Queries in Realm
  - 1.13. Filtering in Realm
  - 1.14. Sorting in Realm

### d. Cloud Integration (8 Hours)

- a. Introduction to Cloud Integration
- b. What is MBaaS?
- c. Web Services
- d. JavaScript Object Notation (JSON)
- e. AFNetworking
  1. Working with AFNetworking
    - 1.1. Creating JSON Script
      - 1.1.1. Create a MySQL database and table
      - 1.1.2. Create a MySQL Database Connection
      - 1.1.3. Fetch Data from MySQL Database
      - 1.1.4. Inserting Values to Table
    - 1.2. Implementing AFNetworking
      - 1.2.1. AFHTTPSessionManager
      - 1.2.2. AFJSONResponseSerializer
      - 1.2.3. AFJSONRequestSerializer

### 8. Devices Features (Part I) (8 Hours)

- a. Introduction to Camera and Photo Gallery
  1. UIImagePickerController Class
  2. UIImagePickerController Delegate
- b. Introduction to Audio Files
  1. AVFoundation Framework
  2. Audio Toolbox Framework
  3. System Sound Services
    - 1.1. Uncompressed Audio Format
    - 1.2. Lossy Compressed Audio Formats
    - 1.3. Lossless Compressed Audio Formats

### 9. Devices Features (Part II) (8 Hours)

- a. Introduction to SMS and Emails
  1. MessageUI Framework
    - 1.1. MFMessageComposeViewController Delegate
    - 1.2. MFMailComposeViewController Delegate
    - 1.3. UINavigationController
    - 1.4. MFMessageComposeViewController
    - 1.5. MFMailComposeViewController
- b. Introduction to Location and Maps
  1. Using CoreLocation Framework
    - 1.1. CLGeocoder
    - 1.2. CLLocation
    - 1.3. CLLocationManager
    - 1.4. CLPlacemark
    - 1.5. CLFloor
- c. Using Mapkit Framework

Training Fee: P30,000 (VAT-inclusive)

Training Duration: 6 Days (48 Training Hours)

\*This Course Outline is subject to change without prior notice.

\*Upon completion, participant will receive a Certificate of Completion from Fasttrack IT Academy