

Mobile Application Development

Android Native Application Development

- 1. Android Framework and Android Studio**
 - a. Introduction
 - b. Android Software Layers
 - c. Android Libraries
 - d. Components of an Android Application
 - e. Pre-requisite of Android Application Development
 - f. Android Studio

- 2. Android SDK Tools and Activity Class**
 - a. Android Project Structure
 - b. Android Manifest File
 - c. Structure of Manifest File
 - d. Activity

- 3. Fragment Views and List View**
 - a. Introduction
 - b. Fragments
 - c. Views
 - d. List Views and List Activity

- 4. Intents and Intent Filters**
 - a. Introduction
 - b. Intents
 - c. Native Android Action
 - d. Data Transfer
 - e. Intent to Call activities
 - f. Register and Intent Filter

- 5. Android Layouts and custom views**
 - a. Introduction
 - b. Views
 - c. Layouts
 - d. Customized Views

- 6. Android UI- Dialogs, Menus and Web view**
 - a. Introduction
 - b. User Interaction
 - c. Dialogs
 - d. Toasts
 - e. Context Menu
 - f. Option Menu

- 4. MVC and User Interfaces**
 - a.** View Controller
 - b.** Outlet and Actions
 - c.** Button and Action Methods
 - d.** Image view and Text Filed
 - e.** Closing Keypad
 - f.** Slider and Label
 - g.** Tags,
 - h.** Check Box and Radio
 - i.** Alert Controller
 - j.** Switches and Segment Controllers
 - k.** Web View
 - l.** More UI Components

- 5. Auto Layouts**
 - a.** Mechanics of Autorotation
 - b.** Autorotation approaches
 - c.** Auto sizing with different apple devices

- 6. Multi View application**
 - a.** Architecture of Multi View Application
 - b.** Root Controller
 - c.** Navigation Controller
 - d.** Tab Bar Controller
 - e.** Segues

- 7. Working with Pickers**
 - a.** Date Picker
 - b.** Single Component Picker
 - c.** Multi Component Picker
 - d.** Custom Picker with Images
 - e.** Delegates and data Sources

- 8. Table view and Navigation Controllers**
 - a.** Working with Table View
 - b.** Working with Table View controller
 - c.** Grouped and Indexed Section
 - d.** Header and Footer
 - e.** Custom Table View
 - f.** Connecting View controllers with Table View

- 9. Basic Data Persistence**
 - a.** SQLite
 - b.** Core Data

- c. Web Services

10. Gestures

- a. Taps Gesture
- b. Pinch Gesture
- c. Rotation Gesture
- d. Pan Gesture
- e. Swipe Gesture
- f. Screen Edges Pan Gesture
- g. Long press gesture

11. Working with Maps

- a. iOS Location Framework
- b. iOS Map Kit Framework
- c. The Location Manager
- d. Annotation
- e. Latitude and Longitude

12. Camera and Photo Library, Collection

- a. Image Picker Controllers
- b. Camera and Library
- c. UI Collection

13. Localization

- a. Localization Architecture
- b. Localize Application

Phone gap

1. Phonegap Introduction

- a. Introduction
- b. History
- c. Architecture

2. Introduction to HTML/ CSS

- a. Basics
- b. Simple Website making
- c. Styling using CSS
- d. Adding functionalities using jQuery/ Java script

3. Setting up Environment

- a. Download and installing Phonegap
- b. Phonegap with Android
- c. Phonegap with iOS

- d. Hello World
- 4. UI Designing using jQuery Mobile
 - a. Introduction
 - b. Creating Pages
 - c. Navigation bar, buttons, grids and other controls
 - d. Data in jQuery Mobile Pages
- 5. Phone gap API
 - a. Movement and Location
 - b. File System and Local database
 - c. Working with Images and Video
 - d. Working with Contacts
 - e. Working with Events
 - f. Many more APIs
- 6. Extending Phonegap with Plugins
 - a. Extending Cordova application with a native plugin
 - b. Extending Cordova iOS application with a native plugin

Deployment

- 1. Deployment
 - a. Deployment of Android
 - b. Deployment of iOS