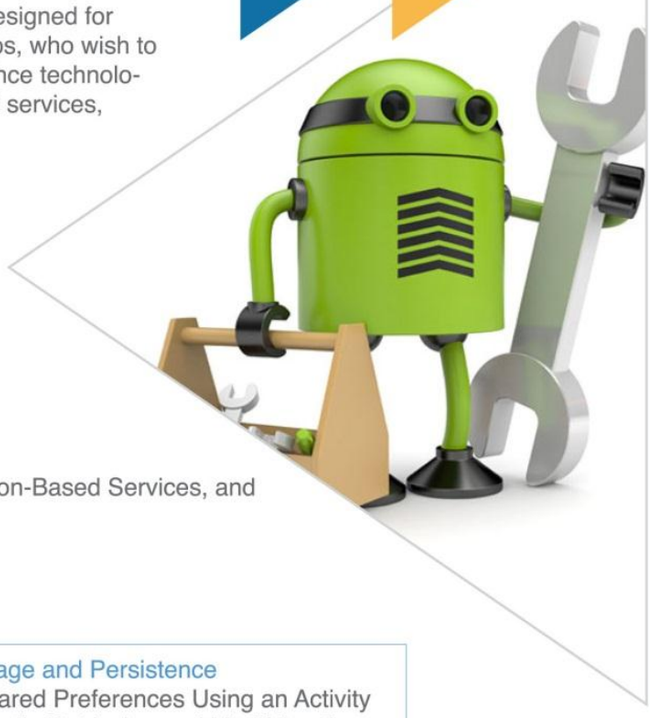
Fasttrack IT Academy

Advance Android Mobile Applications Development



Course Description

This 6-day Advance Android Mobile Application Development Course is designed for experienced Developers who have already begun developing Android Apps, who wish to utilize advance programming techniques. This course will teach you advance technologies such as database operations, WIFI, sensors, camera, location-based services, cloud integration, and deployment to Google Play Store.

Audience

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

Pre-Requisite:

Attended the Basic Android Mobile Application Development Course.

Course Objective:

Upon completion of this course, you will be able to:
1. Enhance Android Apps built from the Basic Course.
2. Use advance features of Android SDK such as Sensor, Camera, Location-Based Services, and Cloud-Storage.
3. Be able to deploy Android Apps to Google Play Store.

Course Outline

Part 6. Database Operation using SQLite
6.1. Inserting Data into SQLite Database
6.2. Setting up method to Read SQLite
6.3. Reading SQLite Database with Cursor
6.4. Getting a Specific Entry Display
6.5. Updating SQLite Entry
6.6. Deleting Entry from SQLite Database
6.7. Displaying the Data Result in a ListView.

Part 7. Data Storage and Persistence
7.1. Accessing Shared Preferences Using an Activity
7.2. Programmatically Retrieving and Modifying the Shared Preference Values
7.3. Saving and Retrieving Data from Internal Storage
7.4. Writing and Reading Data from External Storage

Part 8. Interacting Device Hardware
8.1 Setting up Sensor Manager
8.2 Using the Device's Sensors
8.3 Reference to a Sensor
8.4 Reading Sensor Data
8.5 Working with Camera
8.6 Capturing Images and set as Wallpaper
8.7 Wallpaper Permission

Part 9. Networking
9.1 Introduction to mobile networking
9.2 Using the Device's Bluetooth
9.3 Using the Device's Wi-Fi and Scanning

Part 10. Location Based Services
10.1 Setting Up Location
10.2 Selecting a Location
10.3 Tracking Phone's Location
10.4 Geocoder
10.5 Geocoding a Location for an Address
10.6 Map Markers and Overlay
10.6.1 Overlay MotionEvent time
10.6.2 Markers and Location
10.6.3 Circle Marker and Region Assigning
10.6.4 Distance and Bearing

Part 11. Cloud Integration
11.1 Introduction to Cloud Integration
11.2 JSON Parsing
11.3 Using Http Client
11.4 Fetching Data from the Cloud
11.4.1 Getting Data from JSON
11.4.2 JSONArray Manipulation
11.4.3 Handling Async Task Response

Part 12. Deployment
12.1 Merchant Account
12.2 Google Play

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**

FastTrack IT Academy – Manila
G/F King's Court II Bldg , Chino Roces Ave. cor. Dela Rosa St., Makati City
Direct Line: (02) 215.46.14
Mobile Number: +63917.580.89.25
Phone Number: (02) 822.71.20 | (02) 759.43.48 | (02) 625.03.00
*This Course Outline is subject to change without prior notice.
*Upon completion, participant will receive a Certificate of Completion from Fasttrack IT Academy

Your Need. Your System. Your SAP.