

SUMMER TRAINING PROGRAM 2013

(Android)

Introduced By:



In Association with:



YD Tech Sourcing Pvt. Ltd.

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Summer Training Program 2013

- ❖ **Course Name:** Android
- ❖ **Course Duration:** 30 Days, 50/60hrs
- ❖ **Course Fee:** INR 6900 (Including Taxes)
- ❖ **Course Certification:** Certified by Matbotrix Technologies (Regd.) & YD Tech Sourcing Pvt. Ltd.
- ❖ **Course Level:** Advanced Level
- ❖ **Study Material:** Books & CDs free to each participant
- ❖ **Group discount:** Up to 15%
- ❖ **Website:** <http://www.matbotrix.com>

Course Content:

Android Overview and History

- How it all got started
- Why Android is different (and important)

Android Stack

- Overview of the stack
- Linux kernel
- Native libraries
- Dalvik
- App framework
- Apps

SDK Overview

- Platforms
- Tools
- Versions

Hello World App

- Creating your first project
- The manifest file
- Layout resource
- Running your app on Emulator

Main Building Blocks

- Activities
- Activity lifecycle
- Intents
- Services
- Content Providers
- Broadcast Receivers

Basic Android User Interface

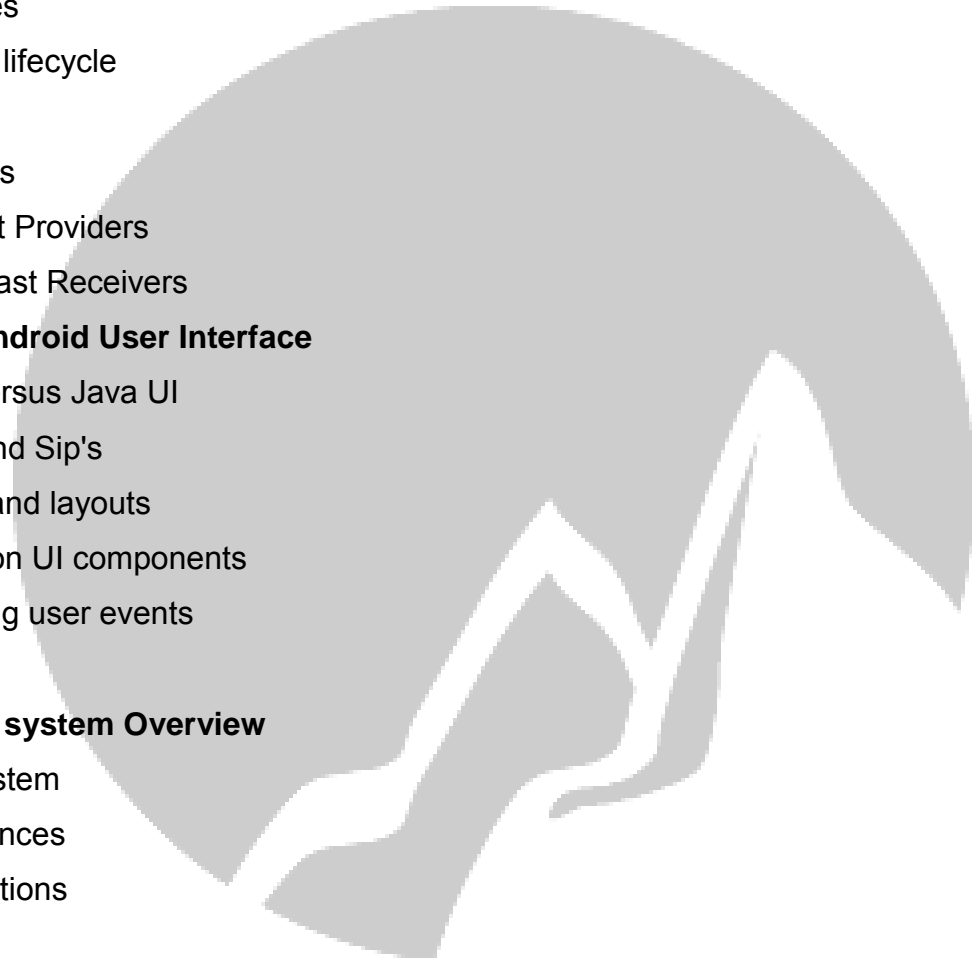
- XML versus Java UI
- Dip's and Sip's
- Views and layouts
- Common UI components
- Handling user events

Android system Overview

- File System
- Preferences
- Notifications

Advanced UI

- Selection components
- Adapters
- Complex UI components
- Building UI for performance
- Menus and Dialogs
- Graphics & animations



Multimedia in Android

- Multimedia Supported audio formats
- Simple media playback
- Supported video formats
- Simple video playback

Basic Content Providers

- Content provider MIME types
- Searching for content
- Adding, changing, and removing content
- Working with content files

Advanced Android

Custom Content Providers

- Why Content Providers
- Where the content comes from
- Implementing the API Supporting content files

Location Based Services and Google Maps

- Using Location Based Services
- Working with Google Maps

Services

- Overview of services in Android
- Implementing a Service
- Service lifecycle
- Inter Process Communication (AIDL Services)

Networking

- Working with web services

- Best practices

Wi-Fi

- Monitoring and managing Internet connectivity
- Managing active connections
- Managing Wi-Fi

Telephony

- Making calls
- Monitoring data connectivity and activity
- Accessing phone properties and status
- Controlling the phone

Camera

- Taking pictures
- Rendering previews

Bluetooth

- Controlling local Bluetooth device
- Discovering and bonding with Bluetooth devices
- Managing Bluetooth connections
- Communicating with Bluetooth

Building a complete Android Application:

- This session will focus on building a fully functional Android application that uses what we have learnt so far.
- Android Marketplace Basics
- Getting Your application ready for publishing in Android Marketplace

Industry Interface Program

Projects

- Assignments / Mini Projects
- 1 Major Project

Domains / Industry

- Mobile Application Development
- Online
- Web based
- Telecom Industry

