

ANDROID

A Workshop on Android Application Development

Organized by
Computer Science & Engg Dept
Lingaya's University

2nd , 3rd March 2012



With the experts of



i3indya Technologies
(A unit of I THREE INFOTECH PVT LTD)

A Workshop on Android Application Development

Introduction :

Android is an open-source software stack for mobile devices that includes an operating system, middleware and key applications. Android's mobile operating system is based upon a modified version of the Linux kernel. The Android Open Source Project (AOSP) is tasked with the maintenance and further development of Android. It's open-source software stack consists of Java applications running on a Java-based, object-oriented application framework on top of Java core libraries running on a Dalvik virtual machine featuring JIT compilation. Android has a large community of developers writing application programs ("apps") that extend the functionality of the devices. There are currently over 150,000 apps available for Android. Android Market is the online app store run by Google, though apps can also be downloaded from third-party sites. Developers write primarily in the Java language, controlling the device via Google-developed Java libraries.

AJ Workshop Syllabus:

Android Workshop

Modules

Particulars

Day 1

1

SESSION 1

- Introduction to Android Technology
- Getting started with the Android
- Android Architecture
- Java SDK
- Introduction to Android SDK
- First Look at Android Interface
- How to install Android Plug in
- Platform
- Advantages & Disadvantages
- Application Fundamental
- Framework
- Components
 - I. Activity
 - II. Services
 - III. Content Providers
 - IV. Broadcast Receivers
- Publishing
- Target Devices

Day 1

SESSION 2

- Android Installation
- Tools & S/w Required
- Emulator creation
- Hello program
- Activity??
- Life cycle of Activity
- Android Manifest File
 - I. What??
 - II. Why??
 - III. How to use
- What is view??
- XML for GUI design
 - I. Why XML
 - II. JAVA code or XML
 - III. Controlling Portrait or landscape
 - IV. Language Control
- Understanding Layouts
- Linear Layout
- Relative Layout
- Frame Layout
- Table Layout
- Absolute Layout
- No layout??
- Feature of view advantage

Day 2

Particulars Session 1

- Concepts of
 - I. Bundle
 - II. Cursor Toast
 - III. Inflater
- Coding for some simple widgets
- Text View
- Button
- Edit Text
- Checkbox
- Radio Button
- Spinner
- List view
- Progress Bar
- Seek Bar
- Concept of INTENT
- Moving from one activity to another activity

- Some advance topic
 - Message sending
 - Call simulation
 - Toast message
 - Wi-Fi Control
 - Alert Box
 - Tailor made Alert Box
 - Database designing fundamentals

Day 2

SESSION 2

- Introduction to App Inventor
- First Application* : Phone Call (Application Building, Hands-on)
- Second Application* : Paint (Application Building, Hands-on)
- Third Application* : Quiz Me (Application Building, Hands-on)
- Fourth Application* : Bluetooth Chat (Application Building, Hands-on)
- Competition
- Q&A
- Future In Android

B] Prerequisite for Workshop:

- Passion to learn new creative things.
- Knowledge of how to use Computer.
- Having basic knowledge of Web & Internet.
- Little knowledge about Java programming techniques.

C] Who could attend?

- College students seeking career in Mobile (Android) Industry.
- Person having interest in Android Technology.
- Education Faculty & Staff.
- Students from any branch can attend the workshop.

D] Requirements for Workshop:

- All the participants are required to bring their Laptops.

E]Charges for Workshop:

rs 1,200/- per student.

(This includes Registration Kit, Toolkit, and Course Material).

F] Certification:

Participation Certificate to all students from i3indya Technologies.

G] Course Material & CDs:

CD/DVD containing Software Incubator Android Resource Toolkit (Containing Tools, Videos, pictures, Presentations) will be provided to all the participants

H] Workshop Duration:

2 Days (8 hours/day)

I] Key Benefits of i3indya:

- Conducted more than 200 Workshops for Students & Professionals across globe.
- Conducted workshops at Top most institutes of India including IIT's, IIIT's, IIST, NIT's and Deemed Universities.
- Trained More than 30,000 students from India's Leading Institutes.

J]Program Benefits & Highlights:

- Learn & Interact with renowned Industry Experts
- Receive an unparalleled education on the art of computer security with personal one-on-one attention.
- 2 days Hand on Practical Workshop on Android Application Development.
- Students will get "SI-Android Tools Kit" free of cost.
- Android Development E-Book will also be provided to the students during the workshop.
- Practical Demonstration application development will be covered

during the workshop

- One practical projects to be undertaken during the workshop.

for further info contact:-

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