Android Application
Development

Course Content

Introduction to Android and Java.

Installing Android
Creating Hello World
Running on Emulator
Introduction to Java core concepts like multithreading, Event Handling
Android Core Building Blocks
AndroidManifest.xml, R.java file

Android UI - Widgets, Activity, Fragement

Working with Button, Toggle, Switch, Image Button.
Toast, CheckBox, Spinner, Datepicker, Time picker, ListView.
AutocompleteTextview, Ratingbar, Progress Bar, Alert Dialog.
Activity Lifecycle, Activity Example.
Explicit Intent, Implicit Intent, Fragement Lifecyle, Example.
Dynamic Fragement, Option, Context, Popup, Drawer Menu.
Relative, Linear, Table & Grid Layout.

Adapter & Views

Array Adapter, ArrayList Adapter, Base Adapter.
Adapter Example
GridView, WebView, ScrollView, SearchView, TabHost.
Dynamic Listview, Expandable Listview.

SQLite Database dev.

Introduction to SQLite
Insert, update, delete and view
Android Tab DB Application
Authentication using SQLite

Mini project using SQLite

Android Services, Content Provider

Service API, Service Life cycle.
Service Example.
Content Provider - Implicit & Explicit (Custom) Example.
Sharing Information from content provider.
Contact Content Provider.

Multimedia, Audio, Video.

Wallpaper, Live Wallpaper.
Playing and recording audio.
Playing and recording video.
Alarm Manager
Gallary

Android Notification

Notification API.
Creating Notification Builder.
Setting Notification Properties
Attaching Actions
Issuing Notification
Android Notification Examples

Telephony API

Intro. to Telephony Manager
Get Call State
Call State BroadcastReceiver
Making Phone Call
Send SMS, Emails.

Location API

Location API Fundamental
Example of Android Location API
Working with Google Maps

Speech API

TextToSpeech API
TextToSpeech Example
Managing speed and pitch
Speech To Text

Device Connectivity

Introduction to Bluetooth
List Paired Devices
Working with WiFi
Working with Camera

Sensor

Intro. to Sensor API
Motion, Position, Environmental Sensor
Sensor Manager, Sensor Event.
Compass Acceslerometer and Orientation Sensors
Sensor Example

Animation & Graphics

Android Animation API
Android Rotate, Zoom and Fade Animation
Animation Example.
Graphics API
2D Graphics, Canvas and Paint Example.

P2P Communication

Introducing Instant Messaging
Sending and Receiving Data Messages
Transmitting Data Messages
Receiving Data Messages

Web Services

What is web service
Soap Vs Restful web service
JSON Webservice
Example of Webservice.

Google Map

Android Map V2 API
Adding and Customizing Map.
Android Google Map Application.
Location Sensing using Google Map.

2 Live Project

One using Content Provider + SQLite
Another based on Location Sensing and Web Service.

Duration : 3 Months

Eligibility : Knowledge of C and Java Program.

Available Batches : Regular Batch -> Monday-Saturday
WeekEnd Batch -> Saturday and Sunday
Fast-Track Batch -> 4 to 5 hrs daily

Present & Future Scope

Got placements in Mid and Large size co.s
Advantage of Open source - more acceptance
Mobile is future Technology - Helpful to build career
For long term it is good technology
Go for other technologies also for taking added advantage
Android applications are more developed comparing to iPhone

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