



ANDROID



About Course

Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets. Android is developed by a consortium of developers known as the Open Handset Alliance and commercially sponsored by Google.

ANDROID

CURRICULUM

1 Basics of Android

What is Android
History and Version
Installing softwares
Setup Eclipse
Hello Android example
Internal Details
Dalvik VM
Software Stack
Android Core Building Blocks
Android Emulator
AndroidManifest.xml
R.java file
Hide Title Bar
Screen Orientation

2 UI Widgets

Working with Button
Custom Toast
Button

Toggle Button
Switch Button
Image Button
CheckBox
AlertDialog
Spinner
AutoCompleteTextView
RatingBar
DatePicker
Time Picker
ProgressBar
Quick Contact Budge
Analog Clock and Digital Clock
Working with hardware Button
File Download

③ Activity, Intent & Fragment

Activity Lifecycle
Activity Example
Implicit Intent
Explicit Intent
Fragment Lifecycle
Fragment Example
Dynamic Fragment

4

Android Menu

Option Menu

Context Menu

Popup Menu

5

Layout Manager

Relative Layout

Linear Layout

Table Layout

Grid Layout

6

Adaptor

Array Adaptor

ArrayList Adaptor

Base Adaptor

7

View

GridView

WebView

ScrollView

SearchView

Tab Host

DynamicListView

ExpandedListView



8

Android Service

Android Service

Android Service API

Android Started Service

Android Bound Service

Android Service Life Cycle

Android Service Example

9

Data Storage

Shared Preferences

Internal Storage

External Storage

10

SQLite

SQLite API

SQLite Spinner

SQLite ListView

10

JSON

JSON Parsing

11

Multimedia

Wallpaper



- Live Wallpaper
- Multimedia API
- Playing Audio
- Creating Audio Player
- Playing Video
- Alarm Manager
- Gallery

12 Speech API

- Text to Speech API
- Text to Speech Example
- Managing speed and pitch
- Speech To Text

13 Telephony API

- Telephony Manager
- Get Call State
- Call State BroadcastReceiver
- Simple Caller Talker
- Making Phone Call
- Send SMS
- Send Email

14 Location API

- Location API Fundamental



Example of Android Location API Working with Google Maps

15

Animation

Android Animation API
Android Drawable class
Android Animation Example
Android Rotate Animation
Android Fade Animation
Android Zoom Animation

15

Device Connectivity

Bluetooth Tutorial
List Paired Devices
Working with WiFi
Working with Camera

16

Sensor

Sensor API
Motion Sensor
Position Sensor
Environmental Sensor
Sensor Values
SensorManager class



Sensor Class

SensorEvent class

SensorEventListener interface

Compass Accelerometer and Orientation Sensors

Sensor Examples

17

Android Graphics

Graphics API

2D Graphics

android.graphics.Canvas

android.graphics.Paint class

18

Android Google Map

Android Map V2 API

Adding Map

Customizing Map

GoogleMap class

Android Google Map Application

19

Android Web Services

Soap Vs Restful web service

Android Restful web service example with php

Storing data on Sever



20

Cotent Provider

Content Provider Fundamental

Contact Content Provider

Other Built-in Content Providers

Creating Custom Content Provider

Understanding Content URI

Content Resolver

Sharing Information from custom content provider

21

Project Development

E-COMMERCE APP

Search Engine (Just Dial)

Real Time Track

Indoor Tracking (Basement,Malls)

Cab Booking

Traveling



www.softcrayons.com



info@softcrayons.com



(+91) 854 501 2345



693, Sector 14-A, Vasundhara,
Ghaziabad (U.P.), 201012



@softcrayons