Android Course Content

- What is Android?

- Why Android?

- Android History and Versions?

- Android Architecture?

- Android core components?

  I. Activity's

  II. Intents

  III. Content providers

  IV. Broadcast Receivers

  V. Services

- Android Software installation and setup Eclipse?

- Android Emulator?

- Android Dalvik Virtual Machine & internal details?

- What is Android Manifest file?

- What is Android R.java file?

  I. Android Activity life cycle?

  II. Android first hello world program?

  III. Android Activity & Intents & Intent filters & purposes?

- Android Layouts with examples?

  I. Relative layout

  II. Linear Layout (vertical & horizontal)

  III. Grid layout

  IV. Table layout

- Android User interface widgets?

  a. working with buttons & toggle buttons

  b. working with checkboxes

  c. Toast & Custom Toast messages

  d. Working with Radio Buttons

  e. Working with spinner

  f. Working with list views & Auto Complete text view

- Creating Alert Dialogs?

- Progress bar & date picker & time pickers etc.

- Menus in Android

  I. Options Menu

  II. Context Menu

  III. Pop up Menu

- Android Animations with sample practices?

- Android service with Real time example?

- Android Data storage options?

 I) internal storage

 II) External storage

 III) Sqlite database

 IV) Shared Preferences

- Android SQLite database creation with Real time example

- Android Content providers with Real time examples?

- Android Broadcast Receivers with sample practices

- Android Notifications with examples

- Sms sending sample and calling samples?

- Android Multimedia

- Playing audio in android with example

- Playing video in android with example

- Android Text to Speech with example?

- Android Telephony API?

- How to send a Phone call?

- How to send a Message?

- Working with Camera & its features

- Create flash Light with camera example

- Android Graphics with small Game Development?

- Android Sensors with examples?

- Android parsing with Xml & Json with examples?

- Android Async threads & examples?

- Android Fragments

- Android examples with different type of adapters?

- Android Practices with custom list views

- Android contextual action bar with example

- Google Maps Api

- Android Assignments for each concept