



COMPUTER'S GALAXY®

Computers. Peripherals, Networking,
Softwares, Web Hosting & Website Development.

Plot No. 7, Above Oxford Book Shop, Nal Sadak, Opp. B.B.K. D.A.V. Clg, Lawrence Road, Asr. Ph.: 5011182, 98143-36888

Syllabus: Android Training Course

Chapter 1: JAVA Concepts

- OOPs Concepts
- Inheritance in detail
- Exception handling
- Packages & interfaces
- JVM & .jar file extension
- Multi threading (Thread class & Runnable Interface)

Chapter 2: SQL

- DML & DDL Queries in brief

Chapter 3: Introduction to Android

- What is Android?
- Setting up development environment
- Dalvik Virtual Machine & .apk file extension
- Fundamentals:
- Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers
- UI Components - Views & notifications
- Components for communication - Intents & Intent Filters
- Android API levels (versions & version names)

Chapter 4: Application Structure (in detail)

- AndroidManifest.xml
- uses-permission & uses-sdk
- Resources & R.java
- Assets
- Layouts & Drawable Resources
- Activities and Activity lifecycle
- First sample Application

Chapter 5: Emulator-Android Virtual Device

- Launching emulator

- Editing emulator settings
- Emulator shortcuts
- Logcat usage
- Introduction to DDMS
- Second App:- (switching between activities)
- - Develop an app for demonstrating the communication between Intents

Chapter 6: Basic UI design

- Form widgets
- Text Fields
- Layouts
- [dip, dp, sip, sp] versus px
- Examples

Chapter 7: Preferences

- SharedPreferences
- Preferences from xml
- Examples

Chapter 8: Menu

- Option menu
- Context menu
- Sub menu
- menu from xml
- menu via code
- Examples

Chapter 9: Intents (in detail)

- Explicit Intents
- Implicit intents
- Examples

Chapter 10: UI design

- Time and Date



COMPUTER'S GALAXY®

Computers. Peripherals, Networking,
Softwares, Web Hosting & Website Development.

Plot No. 7, Above Oxford Book Shop, Nal Sadak, Opp. B.B.K. D.A.V. Clg, Lawrence Road, Asr. Ph.: 5011182, 98143-36888

- Images and media
- Composite
- AlertDialogs & Toast
- Popup
- Examples

Chapter 11: Tabs and Tab Activity

Chapter 12: Styles & Themes

- styles.xml
- drawable resources for shapes, gradients (selectors)
- style attribute in layout file
- Applying themes via code and manifest file
- Examples

Chapter 13: Content Providers

- SQLite Programming
- SQLiteOpenHelper
- SQLiteDatabase
- Cursor
- Reading and updating Contacts
- Reading bookmarks
- Example :
- Final details should be viewed in GridView as well as in ListView.

Chapter 14: Android Debug Bridge (adb) tool

Chapter 15: Linkify

- Web URLs, Email address, text, map address, phone numbers
- MatchFilter & TransformFilter
- Examples

Chapter 16: Adapters and Widgets

- Adapters:-

- ArrayAdapter
- BaseAdapters
- ListView and ListActivity
- Custom listview
- GridView using adapters
- Gallery using adapters
- Examples

Chapter 17: Notifications

- Broadcast Receivers
- Services and notifications
- Toast
- Alarms
- Examples

Chapter 18: Custom components

- Custom Tabs
- Custom animated popup panels
- Other components
- Examples

Chapter 19: Threads

- Threads running on UI thread (runOnUiThread)
- Worker thread
- Handlers & Runnable
- AsyncTask (in detail)
- Examples

Chapter 20: Advanced

- Live Folders
- Using sdcards
- XML Parsing
- JSON Parsing
- Maps, GPS, Location based Services
- Accessing Phone services (Call, SMS, MMS)
- Network connectivity services
- Sensors