

Android Application Development

Syllabus

Module 1

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

Module 2

- Introduction SQL Concepts
- DML & DDL Queries in brief Chapter

Module 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)

- Application Structure (in detail)
- AndroidManifest.xml
- Uses-permission & uses-sdk
- Resources & R.java
- Assets
- Layouts & Drawable Resources
- Activities and Activity lifecycle
- First sample Application



- Emulator-Android Virtual Device
- Launching emulator
- Editing emulator settings
- Emulator shortcuts
- Logcat usage
- Introduction to DDMS
- Hello World App
- Creating your first project
- The manifest file
- Layout resource
- Running your app on Emulator
- Second App:- (switching between activities)
- Develop an app for demonstrating the
- communication between Intents

Module 6

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

Module 7

- Preferences
- Shared Preferences
- Preferences from xml
- Examples

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



- Intents (in detail)
- **Explicit Intents**
- Implicit intents
- Examples

Module 10

- UI design
- Time and Date
- Images and media
- Composite
- Alert Dialogs & Toast
- Popup
- Tabs and Tab Activity
- Examples

Module 11

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

Module 12

- SQLite Programming
- **SQLiteOpenHelper**
- **SQLiteDatabse**
- Cursor
- Reading and updating Contacts
- Reading bookmarks

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





- Adapters and Widgtes
- Adapters:-
 - ArrayAdapters
 - **BaseAdapters**
- ListView and ListActivity
- Custom listview
- GridView using adapters
- Gallery using adaptersExamples

Module 15

- **Notifications**
- **Broadcast Receivers**
- Services and notifications
- Toast
- Alarms

Module 16

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

Module 17

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

- Multimedia in Android
- Multimedia Supported audio formats
- Simple media playback
- Supported video formats
- Simple video playback





- N Location Based Services and Google Maps
- Using Location Based Services
- Finding current location and listening for changes
- in location
- Proximity alerts
- Working with Google Maps
- Showing google map in an Activity
- Map Overlays
- Itemized overlays
- Geocoder
- Displaying route on map

Module 20

- WiFi
- Monitoring and managing Internet connectivity
- Managing active connections
- Managing WiFi networks

Module 21

- Telephony Services
- Making calls
- Monitoring data connectivity and activity
- Accessing phone properties and status
- Controlling the phone
- Sending messages

Module 22

- Camera
- Taking pictures
- Media Recorder
- Rendering preview

- Bluetooth
- Controlling local Bluetooth device
- Discovering and bonding with Bluetooth devices
- Managing Bluetooth connections Communicating with Bluetooth



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