



MAKE MY
TRAINING

Android Advance Training Syllabus

GLOBAL
logical



Software
Technologies

Android Syllabus

Advanced Android

Training for 1 Month

Android Overview and History 30 min

- How it all got started
- Why Android is different (and important)

Android Stack 30 min

- Overview of the stack
- Linux kernel
- Native libraries
- Dalvik
- App framework
- Apps

SDK Overview 1hr

- Platforms
- Tools
- Versions

Hello World App 1-2 hrs

- Creating your first project
- The manifest file



- Layout resource
- Running your app on Emulator

Main Building Blocks 1-2hrs

- Activities
- Activity lifecycle
- Intents
- Services
- Content Providers
- Broadcast Receivers

Basic Android User Interface 3 hrs

- XML versus Java UI
- Dips and sps
- Views and layouts
- Common UI components
- Handling user events

Android System Overview 2hrs

- File System
- Preferences
- Notifications
- Security model

Advanced UI 3 hrs

- Selection components
- Adapters
- Complex UI components
- Building UI for performance



- Menus and Dialogs
- Graphics & animations

Multimedia in Android 3 hrs

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

SQL Database 4 hrs

- Introducing SQLite
- SQLiteOpenHelper and creating a database
- Opening and closing a database
- Working with cursors Inserts, updates, and deletes

Basic Content Providers 2hrs

- Content provider MIME types
- Searching for content
- Adding, changing, and removing content
- Working with content files

Dealing with Threads 3hrs

- Getting Through the Handlers
- Messages
- Runnables
- Running in Place
- Where, Oh Where Has My UI Thread Gone?
- Now, the Caveats



Handling Activity Lifecycle Events 4hrs

- Schroedinger's Activity
- Life, Death, and Your Activity
- onCreate() and onDestroy()
- onStart(), onRestart(), and onStop()
- onPause() and onResume()
- The Grace of State

Custom Content Providers 1-2hrs

- Why Content Providers
- Where the content comes from
- Implementing the API Supporting content files

Location Services 2hrs

- Working with the Location Manager
- Working with Google Maps extensions

Services 4hrs

- Overview of services in Android



- Implementing a Service
- Service lifecycle
- Bound versus unbound services

Intent Filters 4hrs

- Role of filters
- Intent-matching rules
- Filters in your manifest
- Filters in dynamic Broadcast Receivers

Networking 2hrs

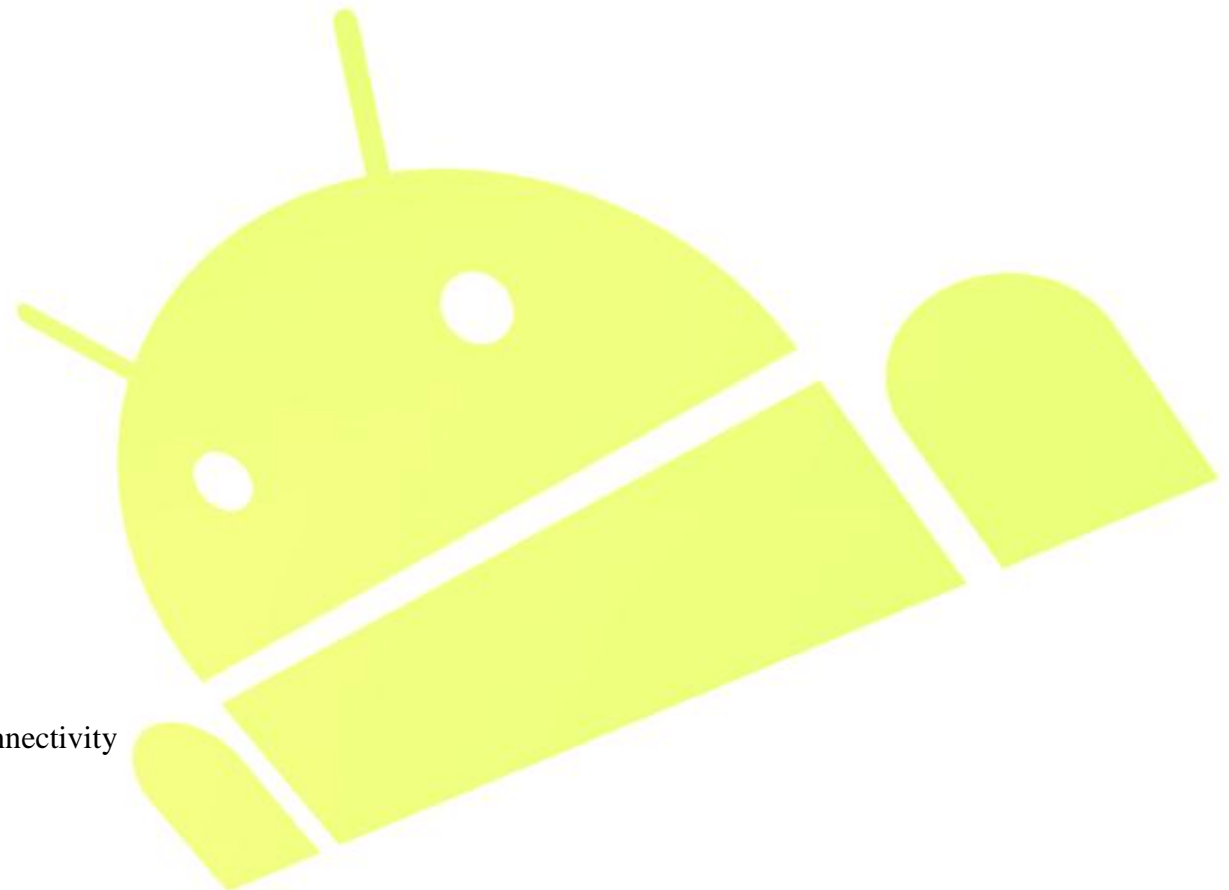
- Working with web services
- Best practices

Sensors 2hrs

- How Sensors work
- Listening to Sensor readings
- Best practices for performance

WiFi 2hrs

- Monitoring and managing Internet connectivity



- Managing active connections
- Managing WiFi

Telephony 4hrs

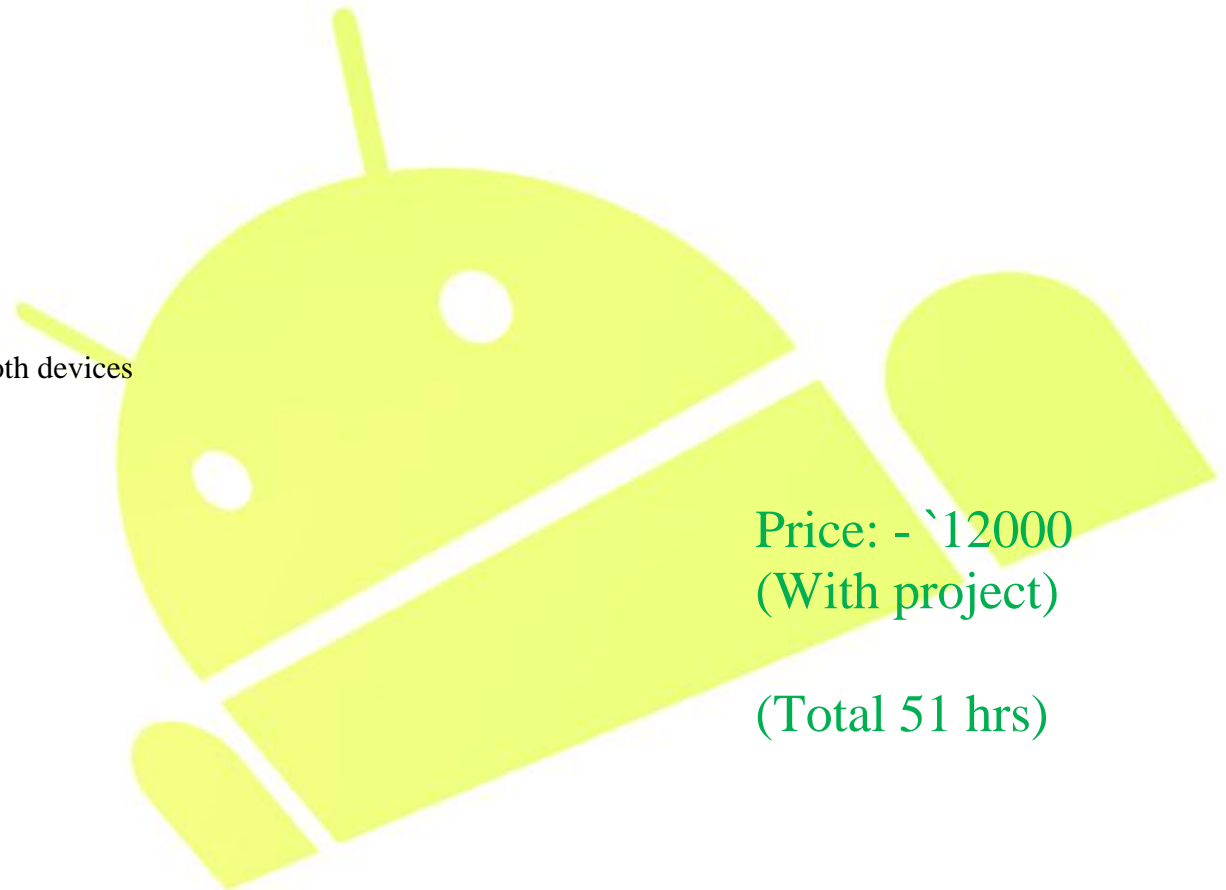
- Making calls
- Monitoring data connectivity and activity
- Accessing phone properties and status
- Controlling the phone

Camera 1-2hrs

- Taking pictures
- Rendering previews

Bluetooth 3hrs

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



Price: - `12000
(With project)

(Total 51 hrs)



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