



Advanced Android Syllabus

- **1 : Android Service**

- Android Service
- Android Service API
- Android Started Service
- Android Bound Service
- Android Service Life Cycle
- Android Service Example

- **2 : Data Storage**

- Shared Preferences
- Internal Storage
- External Storage

- **3 : SQLite**

- SQLite API
- SQLite Spinner
- SQLite ListView

- **4 : XML & JSON**

- XML Parsing SAX
- XML Parsing DOM
- XML Pull Parser
- JSON Parsing

- **5 : Content Provider**

- Content Provider Fundamental
- Contact Content Provider
- Other Built-in Content Providers
- Creating Custom Content Provider
- Understanding Content URI
- ContentResolver
- Sharing Information from custom content provider

- **6 : Android Notification**

- Notification API
- Creating Notification Builder
- Setting Notification Properties
- Attaching Actions
- Issuing Notification
- NotificationCompat.Builder class
- Android Notification Examples

- **7 : Multimedia**

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

- **8 : Speech API**

- TextToSpeech API

- TextToSpeech Example
- Managing speed and pitch
- Speech To Text

• **9 : Telephony API**

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- Call State BroadcastReceiver
- Simple Caller Talker
- Making Phone Call
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• **10 : Location API**

- Location API Fundamental
- Example of Android Location API
- Working with Google Maps

• **11 : Animation**

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

• **Section 12 : Device Connectivity**

- Bluetooth Tutorial
- List Paired Devices
- Working with WiFi
- Working with Camera

• **Section 13 : Sensor**

- Sensor API

- Motion Sensor
- Position Sensor
- Environmental Sensor
- Sensor Values
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- Sensor Class
- SensorEvent class
- SensorEventListener interface
- Compass Accelerometer and Orientation Sensors
- Sensor Examples

• **Section 14 : Android Graphics**

- Graphics API
- 2D Graphics
- android.graphics.Canvas
- android.graphics.Paint class

• **Section 15 : Android P2P Communication**

- Introducing Instant Messaging
- Using the GTalk Service
- Monitoring the ROSTER for Changes
- Sending and Receiving Data Messages
- Transmitting Data Messages
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• **Section 16 : Android Web Services**

- What is web service
- SOAP Vs RESTful web service
- Android RESTful web service example with Java Servlet
- Storing data into external Oracle database
- Verifying data in Android with external Oracle database

• **Section 17 : Android Google Map**

- Android Map V2 API
- Adding Map

- Customizing Map
- GoogleMap class
- Android Google Map Application