Certification in Advance Android

Syllabus

Duration: 120 Hours

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. Cotent Provider

   ✔ Content Proivider 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

✔ Wallpapaer
✔ 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

✔ Telephony Manager
✔ Get Call State
✔ Call State BroadcastReceiver
✔ Simple Caller Talker
✔ Making Phone Call
✔ Send SMS
✔ Send Email

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

12. Device Connectivity

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

13. Sensor

- ✔ Sensor API
- ✔ Motion Sensor
- ✔ Position Sensor
- ✔ Environmental Sensor
- ✔ Sensor Values
- ✔ SensorManager class
- ✔ Sensor Class
- ✔ SensorEvent class
- ✔ SensorEventListener interface
- ✔ Compass Acceslerometer and Orientation Sensors
- ✔ Sensor Examples

14. Android Graphics

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

15. Android P2P Communication

- ✔ Introducing Instant Messaging
- ✔ Using the GTalk Service
- ✔ Monitoring the Roste for Changes
- ✔ Sending and Receiving Data Messages
- ✔ Transmitting Data Messages
- ✔ Receiving Data Messages

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

17. Android Google Map

- ✔ Android Map V2 API
- ✔ Adding Map
- ✔ Customizing Map
- ✔ GoogleMap class
- ✔ Android Google Map Application

18. Project Work

19. Placement Assistance Sessions

- ✔ **Mock Interviews**
- ✔ **GDs**
- ✔ **Preplacement Talks**
- ✔ **Industry Exposer Sessions**

20. Internship