

ANDROID

60 Days Training Program



**Ignite the World with Android: Powering
Boundless Possibilities**

Core Android

Basics of Android

- What is Android
- History and Version
- Installing Softwares
- Setup Eclipse
- Hello Android example
- Internal Details
- Dalvik VM
- Software Stack
- Android Core Building Blocks
- Android Emulator
- AndroidManifest.xml
- R.java file
- Hide Title Bar
- Screen Orientation

Activity, Intent & Fragment

- Activity Lifecycle
- Activity Example
- Implicit Intent
- Explicit Intent
- Fragment Lifecycle
- Fragment Example
- Dynamic Fragment



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UI Widgets

- Working with Button
- Toast
- Custom Toast
- Button
- Toggle Button
- Switch Button
- Image Button
- CheckBox
- AlertDialog
- Spinner
- AutoCompleteTextView
- RatingBar
- DatePicker
- TimePicker
- ProgressBar
- Quick Contact Budge
- Analog Clock and Digital Clock
- Working with hardware Button
- File Download

ANdroid Menu

- Option Menu
- Context Menu
- Popup Menu

Layout Manager

- Relative Layout
- Linear Layout
- Table Layout
- Grid Layout

Adaptor

- Array Adaptor
- ArrayList Adaptor
- Base Adaptor

View

- GridView
- WebView
- ScrollView
- SearchView
- TabHost
- DynamicListView
- ExpandedListView

Advance Android

Android Service

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

Data Storage

- Shared Preferences
- Internal Storage
- External Storage

SQLite

- SQLite API
- SQLite Spinner
- SQLite ListView

XML & JSON

- XML Parsing SAX
- XML Parsing DOM

- XML Pull Parser
- JSON Parsing

Cotent 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

Android Notification

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

Multimedia

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

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Connecting Talent to Opportunity

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Speech API

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

Telephony API

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

Location API

- Location API Fundamental
- Example of Android Location API

- Working with Google Maps

Animation

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

Device Connectivity

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

Sensor

- Sensor API
- Motion Sensor
- Position Sensor
- Environmental Sensor
- Sensor Values
- SensorManager class
- Sensor Class
- SensorEvent class
- SensorEventListener interface
- Compass Accelerometer and Orientation Sensors
- Sensor Examples
- Android Graphics
- Graphics API
- 2D Graphics
- android.graphics.Canvas
- android.graphics.Paint class

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

Android Web Services

- What is a web service
- Soap Vs Restful web service
- Android Restful web service example with java servlet
- Storing data into an external oracle database
- Verifying data in android with external oracle databas

Android Google Map

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



 9462081318 | 9057015702

 0141-2721218

 www.iiht.org.in

 info@iiht.org.in

 47, Jai Ambey Nagar, Opp. Jaipur Hospital, Main Tonk Road, Flyover, Near Gopalpura, Jaipur, Rajasthan - 302018