



### Introduction to ANDROID

- Overview of Android and Android SDK
- History of Android
- Android Features

### ANDROID ARCHITECTURE OVERVIEW

- Introduction to OS Layers
- Linux Kernel
- Libraries
- Android Runtime
- Application Framework

### SETUP OF ANDROID DEVELOPMENT ENVIRONMENT

- System Requirements
- Eclipse and SDK installation, AVD creation
- Creating first Android Application
- Project Structure

### ANDROID APPLICATION FUNDAMENTALS

- Android Application Building Blocks
- Activating Components
- Shutting Down components
- Lifecycle of Application
- Development tools, Manifest File
- Lifecycle of Activity

### USER INTERFACE

- View Hierarchy and Layouts
- UI Events
- Building Menus
- Creating Dialogs
- Scroll View

### MAIN BUILDING BLOCK

- Activity
- Intents
- Pending Intent
- Broadcast Receivers
- Services

### DATA STORAGE

- Shared Preferences
- SQLite Databases
- Creating databases and using SQLite
- Querying Database-CREATE ,UPDATE ,DELETE, INSERT
- Using Cursors,SQLiteOpenHelper
- SQLiteOpenHelper



#### **LOCATION SERVICES**

- Selecting a Best Location Provider-GPS
- Finding Your Location-latitude & longitude
- Tracking Your Position.

#### **ANDROID MEDIA API**

- Music Player
- Video Recording
- Audio Recording
- Taking a Picture

#### **Call**

- Calling Application

#### **Short Messaging Service (SMS)**

- Creating SMS sending Application

#### **Working on Browser**

- Creating your own Web Browser
- Using Back, Forward Button on Browser

#### **Working on Splash Screen**

- Creating app with Splash Screen

#### **Uploading Your App on Playstore**

- Generating signed .apk file
- Steps to upload on Playstore