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# **Android Training Syllabus**

#### Introduction to Android

- 1. What is Android?
- 2. Open Handset Alliance
- 3. Android Features
- 4. Development Framework for Android
- 5. Dalvik Virtual Machine

### **Android SDK**

- 1. Android SDK tools
- 2. Android development tools
- 3. Android Versions
- 4. Android Architecture
- 5. Android Application Life Cycle

## **Android Installation and First Project**

- 1. IDE and Android Installation
- 2. Developing first Project
- 3. Limitations of Mobile Device

### **Creating User Interfaces**

- 1. Views, ViewGroups
- 2. Layout Managers
- 3. Notifications
- 4. XML configuration of Layouts
- 5. Building user interfaces using Graphical Layout
- 6. Event handling Mechanism

### **Advanced User Interfaces**

- 1. Adapters
- 2. Customized User Interfaces
- 3. Drawable Resources
- 4. Resolution and Density Independence
- 5. Menus, Dialog Boxes
- 6. Animation, Graphics

#### **Services and Receivers**

- 1. Service Life cycle
- 2. Permissions
- 3. Implementing Services

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- 4. Receiver tag
- 5. Implementing Receivers

## **Data Storage and File System**

1. Data Storage and File System Overview

## **Data Storage and File System**

- 1. Shared Preferences
- 2. File System in Android
- 3. Internal Storage

### **SQLite and Content Providers**

- 1. What is SQLite?
- 2. Creating SQLite Databases
- 3. DML Operations on Data
- 4. Cursors and Content Values
- 5. Sharing Databases Content Provider scenarios
- 6. Sharing Databases across application boundaries

### **Telephony and SMS**

- 1. Telephony
- 2. Reading Phone device details
- 3. Reading SIM Details
- 4. Tracking Cell Location Changes
- 5. Introducing and Sending SMS and MMS
- 6. Reading incoming messages

### **Location Based Services and Maps**

- 1. Finding current location Location Manager
- 2. GeoCoding Forward and reverse GeoCoding
- 3. User Interface Map View
- 4. Changing views on the map

### Web Services and Network Connectivity

- 1. What is Web service?
- 2. Integrating Web Services
- 3. SOAP based calling
- 4. Managing Network Connectivity
- 5. Monitoring Wi-Fi
- 6. Bluetooth

# Multimedia

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- Playing Audio and Video
  Managing Media Controller

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