

# DIGISNARE TECHNOLOGIES

## Android App Development Training



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Android Development Course Syllabus

## Java Concepts

- OOPs Concepts
- Inheritance in detail
- Exception handling
- Packages & interfaces

## Introduction to Android

- What is Android?
- Setting up development environment
- Dalvik Virtual Machine & .apk file extension
- Fundamentals:
- Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers
- UI Components - Views & notifications
- Components for communication - Intents & Intent Filters o Android API levels (versions & version names)

## Application Structure (in detail)

- AndroidManifest.xml
- uses-permission & uses-sdk
- Resources
- Layouts & Drawable Resources
- Activities and Activity lifecycle
- First sample Application

## Emulator-Android Virtual Device

- Launching emulator
- Editing emulator settings
- Emulator shortcuts
- Logcat usage
- Second App:- (switching between activities) - Develop an app for demonstrating the communication between Intents

## Basic UI design

- OOPs Concepts
- Inheritance in detail
- Exception handling
- Packages & interfaces

## Preferences

- Shared Preferences Examples

## Menu

- Option menu
- Context menu
- Sub menu
- menu from xml
- menu via code
- Examples

## Intents (in detail)

- Explicit Intents
- Implicit intents
- Examples

## UI design

- Time and Date
- Images and mediaComposite
- AlertDialogs & Toast
- Popup
- Examples

## Styles & Themes

- styles.xml
- drawable resources for shapes, gradients (selectors)
- style attribute in layout file
- Applying themes via code and manifest file
- Examples

## Content Providers

- SQLite Programming
- SQLiteOpenHelper
- SQLiteDatabase
- Cursor
- Reading and updating Contacts
- Reading bookmarks
- Example : Develop an App to demonstrate database usage. CRUD operations must be implemented. Final details should be viewed in GridView as well as in ListView.

## Android Debug Bridge (adb) tool



## Linkify

- Web URLs, Email address, text, map address, phone numbers
- MatchFilter & TransformFilter
- Examples

## Adapters and Widgets

- Adapters
- ArrayAdapter
- BaseAdapters
- ListView and ListActivity
- Custom listview
- GridView using adapters
- Gallery using adapters
- Examples

## Notifications

- Broadcast Receivers
- Services and notifications
- Toast
- Alarms
- Examples

## Custom components

- Custom Tabs
- Custom animated popup panels
- Other components
- Examples

## Threads

- Threads running on UI thread (runOnUiThread)
- Worker thread
- Handlers & Runnable
- AsyncTask (in detail)
- Examples

## Advanced

- Live Folders
- Using sdcards
- XML Parsing
- JSON Parsing
- Maps, GPS, Location based Services
- Accessing Phone services (Call, SMS, MMS)
- Network connectivity services
- Sensors



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