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Android Training Syllabus

Introduction of Android

- Why Android?

Visit Our Official website : www.mtechnologies.org



- • Android Run Time
- • Android Studio
- • Introduction to Gradle
- Setup of Android Development Environment
- System Requirements
- Java, Eclipse and Android SDK Installation
- Android SDK and Tools
- Android Virtual Devices & Device Definitions
- **Fundamentals**
- • Basic Building blocks – Activities, Services, Broadcast Receivers & Content providers
- • UI Components- Views & notifications
- • Components for communication -Intents & Intent Filters
- • Android API levels(versions & version names)
- Application Structure
- • AndroidManifest.xml
- • uses-permission
- • Resources & R.java
- • Layouts & Drawable Resources
- • Activities and Activity lifecycle
- **Emulator**
- • Launching emulator
- • Editing emulator settings
- • Emulator shortcuts
- • Logcat usage
- • Introduction to Android Device Monitor (ADM)
- • File explorer
- Intents
- • Explicit Intents
- • Implicit intents
- **Basic UI design, Styles & Themes**
- • Form widgets
- • Text Fields
- • Layouts o RelativeLayout ,TableLayout, FrameLayout, LinearLayout, Nested layouts
- [dip,dp,sip,sp] versus px
- styles.xml
- drawable resources for shapes,gradients(selectors)
- Style attribute in layout file
- • Applying themes via code and manifest file
- • AlertDialogs & Toast
- • Time and Date
- • Images and media
- **Menu**
- • Option menu And Action Bar(menu in action bar)
- • Context menu and contextual action mode
- • Popup menu
- • menu from xml
- • menu via code
- • Linkify



- • MatchFilter & TransformFilter
- **Adapters**
- • ArrayAdapter
- • BaseAdapters
- • ListView and ListActivity
- • Custom listview
- • GridView using adapters
- • Gallery using adapters
- • Android Session and Session management
- **Content Providers**
- • SQL
- • DML & DDL Queries in brief
- • SQLiteDatabase
- • SQLiteOpenHelper
- • Cursor
- • SQLite Programming
- • Reading and updating Contacts
- • Android Debug Bridge(adb) tool
- • Broadcast Receivers
- • Services
- **Customize**
- • Toast
- • Dialogs
- • Tabs
- • Animated popup panels
- • Grid view
- • Spinner
- • Thread.
- • AsyncTask
- • XML Parsing
- • Android JSON parsing using Volley
- • How to create REST API for Android app using PHP
- • Mysql
- • Accessing Phone services(Call,SMS)
- **Fragments**
- • Introduction to fragments
- • Fragments Life Cycle
- • Fragments in Activity
- • Google Maps V2 using Fragments
- • Develop Fragment based UI designs (Fragment Tabs,ListView etc)
- • Location based Services
- • GPS
- • Geocoding
- • Network connectivity services
- • Sensors(Accelerometer, Gyroscope)
- • Using Wi-Fi& Bluetooth.
- • Google Cloud Messaging for Android.
- • App Widgets.