<u>**GrokTech – Training & Education**</u>

Android Programming Workshop

Course Contents:

Introduction to Android

What is Android? • Android Versions • Android Architecture • Android Features

Installing Android

Installing JDK, Eclipse, Android SDK, ADT, Android Platform • Developer Documentation • Samples

Hello Android – Creating your first Android Project

Creating a new Android project • Source files, Resource files, Manifest file • Compilation • Generated files • APK • Creating an Android Virtual Device (Android Emulator) • Running the app on the emulator

Using Command-line Tools

Android Debug Bridge (ADB) • ADB server • Using the shell

Application Fundamentals

Android Application • Application Components • Manifest File • Resources • Intents

Activities

Extending the Activity class • Declaring activities in the Manifest • Activity Lifecycle

Views

TextView • ImageView • Button • other views • ViewGroups • LinearLayout • RelativeLayout • other layouts • Best Practices

XML Layouts

Manually editing layout XML • XML attributes • WYSIWYG editor

Debugging

Logging • using DDMS • Debug perspective in Eclipse

Menus

Options Menu • Responding to user action • Context Menu

Intents and Intent Filters

Dialogs

AlertDialog • ProgressDialog • Lists in Dialogs • Toast Notifications

Threads

Services

Declaring a service • Started Service • Bound Service • Service Lifecycle

Graphics and Animations

Drawables • Nine-patch • Canvas • Animations

Data Storage

Shared Preferences • Internal Storage • External Storage • SQLite

Content Providers

Accessing data from Content Providers • Creating a Content Provider

Broadcast Receivers

Networking

Multimedia

Camera

Sensors

Light Sensor

Location Services

Contact Details:

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