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ANDROID APPLICATION DEVELOPMENT

INTRODUCTION TO ANDROID

- Why Android?
- Android Run Time
- Android Studio
- Introduction to Gradle

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
- Activity/services/receiver declarations
- 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

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INTENTS

- Explicit Intents
- Implicit intents

BASIC UI DESIGN, STYLES & THEMES

- Form widgets
- Text Fields
- Layouts
  - RelativeLayout ,TableLayout, FrameLayout, LinearLayout, Nested layouts
    - [dip,dp,sip,sp] versus px o styles.xml
    - drawable resources for shapes,gradients(selectors) o 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

- ArrayAdapters
- BaseAdapters
- ListView and ListActivity
- Custom listview
- GridView using adapters
- Gallery using adapters
- Android Session and Session management

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CONTENT PROVIDERS

- SQL
- DML & DDL Queries in brief
- SQLiteDatabse
- SQLiteOpenHelper
- Cursor
- SQLite Programming
- Reading and updating Contacts
- Android Debug Bridge(adb) tool
- Broadcast Receivers
- Service

NOTIFICATIONS

- Alarm
- Via service

CUSTOMIZE

- Toast
- Dialogs
- Tabs
- Animated popup panels
- Grid view
- Spinner
- Thread.
- AsynTask
- XML Parsing
- Android JSON parsing using Volley
- How to create REST API for Android app using PHP
- Mysql
- Accessing Phone services (Call,SMS)

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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

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