



TECHHUB SOLUTIONS

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Android App Development

Main Topic	Sub Topic
Introduction to Android	What is Android? Pre-requisites to learn Android Installation process
Android Architecture (Overview)	Linux Kernel Android Runtime Application Framework DalvikVM
Session Tracking Mechanisms	HttpSession Cookies URL-Rewriting Hidden-Form Fields
Creating, Running and Debugging First Android Application	Creating Android Project Introduction to ADB: Android Debug Bridge Executing Project on Android Screen Debugging an Android Application
Android Components (Overview)	Activities Services Broadcast Receivers Content Providers The Manifest File
Building UI with Activities	Activities Activity lifecycle View & ViewGroup, layouts and Common UI components Creating UI through code and XML
Intents and Intent Filters	What is an intent Intent types: Implicit and Explicit with example Communicating data among Activities using Intent Forcing an app chooser
Advanced UI & Fragments	Selection components (GridView, ListViews, Spinner) Adapters, Custom Adapters Creating a Fragment class, Adding Fragment Replace One Fragment with Another Communication between Fragments

Notifications	Toast, Custom Toast Alert Dialogs Status bar Notifications
Android Menu	Option Menu Context Menu Popup Menu
Camera	Taking & saving pictures Setting those picture as wallpaper
Telephony API	Telephony Manager Making Phone Call Send SMS
Data Storage	Shared Preferences Internal Storage External Storage
Introducing SQLite	SQLiteOpenHelper and creating a database Working with cursors inserts, updates and deletes
Services	Overview of services in Android Different types of services: Scheduled Service (Android 5.0, API level 21) Started Service Bound Service
Location Based Services & Google Maps	Using Location Based Services Finding current Location and listening for changes in location Showing google map in an activity
Web Services and WebView	Web Services and WebView Receiving HTTP Response(XML, JSON) Parsing JSON and XML Using WebView