

ANDROID APP DEVELOPMENT (35hrs)

Prerequisite: Must have basic understanding on OOPS and Java concepts.

MODULE 1: Basic Java Concepts (4 hrs)

OOPs Concepts, Inheritance in detail, Exception handling, Packages & interfaces JVM & .jar file extension, Multi-threading (Thread class & Runnable Interface)

MODULE 2: Introduction, Setup, Architecture and stage Changes (8-hrs)

Android Studio Development Essentials Introduction, Setting up an Android Studio Development Environment, Creating an example Android App in Android Studio, A tour of the Android Studio User Interface, Creating an Android Virtual Device (AVD) in Android Studio, Testing Android Studio Apps on a Physical Android Device, The Basics of the Android Studio Code Editor, The Anatomy of an Android Studio Android Application, Understanding Android Application and Activity Lifecycles, Android Studio, Saving and Restoring Activity State in Android Studio.

MODULE 3: Views, Layouts, Event Handling, Advanced Layout and Transitions (8-hrs).

Understanding Android Views, View Groups and Layouts, Designer Tool, Designing a User Interface, Creating an Android User Interface in Java Code, Using the Android Grid Layout Manager, Working with the Android Grid Layout using XML Layout Resources, Android Touch and Multi-touch Event Handling, Detecting Common Gestures using Android Studio and the Gesture Detector Class, Implementing Android Customer Gesture Recognition, Using Fragments, Master/Detail Flow, Creating and Managing Overflow Menus, Animating User Interface in Android Studio using the Transition Framework, using begin Delayed Transition.

MODULE 4: Intents, Threads, and Services, Data Access and Storage, Multimedia and Maps (5-hrs)

An Overview of Intents in Android Studio, Android Explicit Intents, Android Implicit Intents, Broadcast Intents and Broadcast Receivers, Android Threads and Threads Handler, Understanding Android Started and Bound Service, Implementing an Android Started Service, Implementing Local Bound Services, Android Remote Services, SQLite Databases, Table Layout and Table Row, Understanding Android Content Provider, Content Provider, Accessing Cloud Storage using the Storage Access Framework, Storage Access Framework, VedioView and Media Controller, Video Recording and Image Capture using Camera Intents, Working with the Google Maps Android API, An Android Studio HTML and Web Content Printing.

MODULE 5: Live your application(5-hrs)

Handling Different Android Devices and Display, Generating a Signed Release APK File, An Android Studio Google Play In-App Billing, Gradle and An Android Studio Gradle Variants.

MODULE 6: Project Development (5-hrs)

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