



[ANDROID]

Course Content

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ANDROID

Content of Android:

| Sr. No. | TOPICS | Hrs. |
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| | Pre Requirements (Basic Knowledge of OOPS concept and Core java) | |
| 1. | Fundamental (Software Engineering with SDLC, Flow chart, DFD, SQL database) | 4 |
| 2. | Android OS (Introduction to Android, Android System with Architecture, Android Architecture, Development with Android – Platforms, Tools, Versions, Setup Android Environment, Say Hello to Android Application, Building Blocks of Android Application, Work with Activity, Activity Lifecycle, Intents Fragments, Fragment Lifecycle) | |
| 3. | Android UI And Component using Fragments (Create Android UI, Working with Layout, Create Custom Layouts, Work with UI Components and Events, Material Design Toolbar, Tab Layout, Recycler View and Card View, Butter knife, Android Annotations) | |
| 4. | Database Connectivity (Storage in Android, Shared Preferences, Shared Preferences Layout, Android Requesting Permission at run time (Android 6.0), Work with SD Card and Files, Database in Android, Realm-No SQL Database) | |
| 5. | Applicability to Industrial Projects (Web services and Parsing, XML Parsing, DOM Parsing, SAX Parsing, Pull Parsing, JSON Parsing, Access web data with JSON, Connect to Web Services, Using Async Task) Third Party Libraries (OkHttp, Retrofit, Glide, Picasso – 2) MySQL connectivity using Java OR MySQL connectivity using PHP, Web Service Connectivity | |

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| 6. | <p>Advanced Android Development (Google Map, Location Service and GPS, Creating Google Map, Work with Location, Location service with Location Manager, Find Current Location, Geo coding, Graphics and Animation, Work with 2D Graphics, Bitmap, Animation, Frame Animation, Tween Animation, View Animation, Multimedia in Android, Play Audio Files, Play Video Files, Work in Background, Services, Notification Services, Broadcast Receiver, What are broadcast Receivers?, Work with broadcast receiver)</p> <p>Firestore (FCM(Firebase Cloud Messaging), Social Media Integration, Android App links Assistant(Using Firebase), Payment Integration)</p> | |
| 7. | <p>System Component / Applicability to Industrial Projects Work with android system (Wake Lock, Text to Speech, Camera, Taking Picture with Camera, Bluetooth and Wi-Fi, Manage Bluetooth Connection, Monitor and Manage Wi-Fi, Sensor, Understanding Sensor, Access Sensors.)</p> <p>Development and Deployment (Delvik Debug Tool, Logcat, Emulator Control, Device Control, Work with ADB, Connect Real Devices, Execute Application on Real Device, Publish your Application)</p> | |