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The increase in number of Android based smart phones in the market is also due to such properties of Android and more than that Android being open source it becomes simpler for Android app developers and Android app programmers to get access to it and develop the apps they require. With developments such as this in the Android field, the faction using Android smart phones itself is considered as a segment of the market and an Android app developer should be aware of it while developing apps for it.

As this segment has been separated individually, it is noted that it is going to a group which accesses Internet through mobile devices. As such a significant group is going to use a specific platform, in this case Android, the Android app developers make it a point to notify the need for the websites to be compatible and this increases the demand for more Android applications to be developed by the Android app developers.

Android is a group of programs specifically built for mobile platforms and mobile devices using which Android app programmers can build required applications. The key constituents of Android are key applications, an Operating System and middleware. The Android Software Development Kit consists of the tools and Application Programming Interface required by the Android app developer to build an application. The Android platform also provides the Android app programmer a Quick Emulator based handset emulator, sample code, tutorials and documentation which rely on dynamic binary translation to achieve a reasonable speed while being easy to port to new host CPU architectures. The Android app programmer has to handle Java programming to develop applications in the Android platform.

The integrated browser present in the Android platform is based on the open source program called WebKit Engine. The application framework works in such a way that it enables the Android app programmers to reuse and replace components already used in a part of the process of application development.

The 3D graphics present in the User Interface as well as the back end administration page rely on the specifications provided by the Open GL ES 1.0. This process of hardware acceleration can be opted for or otherwise by the Android app developer developing the application. The common media supporting capabilities of the platform is also extended to various formats namely H.264, MPEG4, AMR, MP3, PNG, AAC, JPG, and GIF. The alternate side of Android application development also consists of tools for debugging, external/internal device emulator, performance profiling, memory components and Eclipse IDE plug-in. For mobile phones and tablets Android uses the Dalvik virtual machine which has been optimized. For functions such as managing low level memory components and threading the Dalvik Virtual Machine relies on the Linux Kernel. The graphics present are optimized by the Android app programmers using a list of customized 2D graphics.

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A successful Android app has to be designed in a customized way to be unique. And to build a unique Android app the a Android app developer has to have clear insights on the requirements and must be technically adept.

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