ANDROID-BASED SOLUTION TO DETECT DATA MISUSES IN MOBILE PHONES

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Data security at present, ascents discussion with the events of numerous information vulnerabilities to current frameworks. Mobile devices are considered as an effective equipment in day to day life. The availability of mobile services has significantly increased because of the immense variation of mobiles and essential applications provided by mobile device manufacturers. Over the pros gained through mobiles, numerous security issues and data privacy threats are challenging to both mobile manufacturers and users. According to the researches, in the current world; most popular and vastly active mobile operating system is Android. Although Android is open source and freely available there are some glitches encountered when using Android. One of the most highlighted problem is lack of latest operating system updates when they are released by the Android owning company Google. This is a major issue mostly because these updates add latest features and security enhancements to the operating system. Majority of active Android devices are running older android versions. Since they are lacking the latest security fixes and enhancements to protect user data this will lead to a serious threat of revealing private and sensitive data to the outside through the mobile phone. This paper suggests a tool for older Android versions to identify user permission violations and react on them by actively notifying users about the background misused data behaviour and permission manipulations which will leads to privacy violations. The solution is addressed upon the lack of latest personal information security mechanisms on mobile devices with a thorough definition of the current problems on commonly used Android operating systems.