

ABSTRACT

The application developers usually insert malware in applications that are ready to be downloaded by users. Malware is software designed to damage information on a computer and prevent the computer from working normally. Malware on android smartphones often steal user data and send hidden messages without the user's knowledge.

In the final project, an application analysis was carried out containing malware that could endanger Android smartphone users by using reverse engineering techniques. Reverse engineering is a technique used to analyze software and find out how to work a program on an android application.

The test results show a comparison using Jotti Malware Scan, MetaDefender Cloud and Virustotal as a comparison tool by testing 20 sample applications. In the MetaDefender tools 39 malware types were detected. Furthermore, the Jotti Malware Scan tools detected as many as 46 types of malware. Based on these results the Jotti Malware Scan tool can detect more malware than MetaDefender Cloud and approaches the amount of Virustotal.

Keyword : *Malware, Reverse Engineering, Android*