

## **ABSTRACT**

*Android is a linux-based operating system designed for mobile devices with touchscreen such as smartphones and tablet computers. Android is also an operating system can be open source, it allows to be modified freely as needed and distributed by software makers and application developers. Android in the present day became the operating system best known by the community because of easily to interaction for users, and also entrust all identity and transaction into android based smartphone. However, many are abusing when the smartphone users experience data stealing and lost the smartphone. In this thesis, will be designed and implementation of android security using the application so that users feel safe with the data in the smartphone*

*Based on this thesis, the application can differentiate between user mode and guest mode, can send the location when the phone is not in the hands of users, can eliminate data data and user applications. And the last reliability can do auto factory reset in some time if the phone is not returned in the hands of users*

*Keywords: Access Control System, Android, GPS, Lockscreen, UserAccess, Guest Mode, Android Security*