

## ***ABSTRACT***

Communication in modern times right now covers many variations like video call, voice call, and via text send from device to other devices. Many chatting based text apps, but user want their chat privacy is secured from stranger include hacker which want to read and want to know their chat without permission from the account owner.

To increase security and confidentiality of chat from a hacker, user chat should be secured with good security technology, one of them is the cryptography-based lattice technology, this securing method is the newest version for securing data, which this method has two model of key encryption model so it is hard for a hacker to understand.

Based on the explanation above, an application secured with cryptography-based lattice was developed, so it can make the user more feel comfortable and feel safe when the user use this application. Especially, for a chat application.

**Keywords:** cryptography, chat, security, android.