ABSTRACT

Based on the increasingly complex digital era, mobile applications have become an integral part of everyday life. However, with the increasing use of mobile applications, the risk of cyber attacks that can cause damage to data, security, and company reputation is also increasing. Cyber attacks can be carried out using various methods, including social attacks, phishing, and other security attacks. One of the most effective methods in detecting and stopping cyber attacks is using the VAPT (Vulnerability Assessment and Penetration Testing) method. Vulnerability Assessment and Penetration Testing (VAPT) is a method used to prevent or evaluate a system, network, or application vulnerability. This VAPT tests an application's ability to defend a system in the application against unauthorized attacks. These gaps can provide backdoor access so that someone can run programs secretly, often without the knowledge or permission of the application user. This study aims to deepen the understanding of vulnerabilities and security in mobile applications.

Keyword: *Information Security, Vulnerability Assessment, Penetration Testing, VAPT, Mitigation, MobSF.*