ABSTRACT

In the current era of digitalization, the need for effective forensic methods for remote data acquisition from Android devices has become increasingly significant, especially during the global pandemic. This research develops the 'Remote Acquisition for Android Smartphone' (RAAS), a system based on the Django Web Framework that functions as a tool for remote data acquisition for Android devices. RAAS is designed to optimize the forensic investigation process by facilitating the collection of digital evidence from Android devices remotely. The main objective is to create a cross-platform accessible RAAS application that ensures a secure and efficient data acquisition process.

Based on the tests and evaluations conducted, the RAAS system has proven capable of performing digital forensic processes that encompass four main principles: Identification, Collection, Acquisition, and Presentation. This research includes the development of acquisition methods using ADB and Netcat, comprehensive application testing, and an intuitive UI/UX design with a special emphasis on the security and accessibility of the web application.

Keywords: digital forensics, remote data acquisition, Android, Django Web Framework