ABSTRACT

ANALYSIS OF DIGITAL FORENSIC EVIDENCE FOR MICHAT MESSAGE APPLICATIONS AND FACEBOOK MESSENGER USING THE NIST 800-101 R1 METHOD

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The use of information technology is very broad in the daily lives of people in Indonesia. This very wide distribution not only has a good impact but can also have a bad impact when some people take advantage of it for criminal acts. One example is online prostitution. Online prostitutes use the Michat and Facebook Messenger applications to communicate with potential customers. Dangling modifier, valid digital evidence is needed to bring the perpetrators to court. The problem experienced in collecting digital evidence data is that the perpetrators try to eliminate digital evidence contained in smartphones. Evidence that has been lost can be recovered with a digital forensic process. Digital forensics is an investigative technique related to data-based digital devices to collect, analyze, and present valid evidence authorized by laws and regulations for court proceedings. In collecting digital evidence, the digital forensic process is assisted by the NIST 800-101 R1 method. This method is divided into four stages preservation, acquisition, examination & analysis, and reporting. The NIST 800-101 R1 method was successfully applied to forensic acquisition in the messaging applications MiChat and Autopsy by obtaining scenariod digital evidence. The results showed that with the MOBILEedit tools in both messaging applications, images and videos were found not with messages. The research was continued with analysis with Autopsy tools and found messages, images, and videos in both messaging applications.

Keywords: Digital Forensics, Digital Evidence, MiChat, Facebook Messenger