

## **ABSTRACT**

Technology is growing rapidly along with the times, one example of technological development is the development of the use of websites in daily activities. Many institutions and entities have taken advantage of the use of websites to support their business processes. The Faculty of Industrial Engineering as one of the faculties of Telkom University has used a website called virtualfri to be able to help with administrative activities. One of the websites of the Faculty of Industrial Engineering is the final project proposal dashboard website which contains the plotting of the final project supervisor and the title of the final project. However, with the development of a technology, the development of vulnerabilities or attacks against these technologies also increases. Based on the 2021 cyber security monitoring annual report by the National Cyber and Crypto Agency (BSSN), there are more than 1.6 billion cyber attacks that have occurred in Indonesia. Therefore, it is necessary to do a vulnerability assessment method to be able to find out the vulnerabilities found on a website and also solutions that can be applied to overcome these vulnerabilities. In this study, a vulnerability assessment will be carried out on the website dashboard for the final project proposal of the Faculty of Industrial Engineering students using Nmap and Acunetix tools. The results obtained after the vulnerability assessment process was carried out were that there were 12 vulnerabilities on the website dashboard for the final project proposal of the Industrial Engineering Faculty students with Nmap detecting 3 medium risk vulnerabilities and 1 low risk vulnerability while Acunetix managed to detect 2 medium risk vulnerabilities and 6 low risk vulnerabilities.

Keywords: Vulnerability, Website, Vulnerability Assessment, Acunetix, Nmap.