The effectiveness of internship information system application in vocational high school

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Abstract. This study aims to determine the implementation of the internship information system application in vocational high school (VHS), measure the effectiveness of the internship information system application in VHS and determine the appropriateness of the internship information system application as media in VHS. Research conducted at VHS of Muhammadiyah Prambanan uses quantitative approach with a descriptive method. Samples were taken using a random sampling technique. Data collection techniques used were observation and questionnaires where the data are analysed using descriptive analysis and quantitative data analysis. The results of this study indicate that the implementation of internship information system by 73%. The level of effectiveness of internship information system applications, including both categories. The details are quality systems 72%, the quality of information 74%, quality of service 70% user satisfaction 71% and profit 70% as well as the application of internship information system fit for use as a media internship services with the percentage of the effectiveness of the application of internship information system by 71% and internship service by 72%.

1. Introduction

Vocational High School (VHS) is one of the top-level education in Indonesia, where VHS is an educational institution that prepares superior human resources (HR) and is demanded to be able to prepare graduates to meet the workforce in the industrialization era and the coming era [1]. This explains that VHS is an education that is expected to improve and create a competent and superior workforce in their field.

VHS is an industry-oriented school so that learning is applied integrates with industry where it is called the dual system program [2]. Internship is one form of dual system program that is applied in VHS. The purpose of internship are expanding students' knowledge in the world of work, encouraging students to have an interest in working in the company, providing information about the workings and workforce of the company, encouraging students to have a sense of discipline and responsibility. The objectives of the internship are first, adding insight into science and technology through direct experience activities in the industries/companies/workshops occupied. Secondly, studying aspects of entrepreneurship related to the industries that are occupied, so that it can bring the experience of industrial practice into its duties [3]. In order to align the learning system in vocational schools with the world of work, work-based learning (WBL) is one of the model which can be used where it is expected that students can develop experiences from school and industry especially for attitudes,
knowledge, and skills [4]. The results of the research Rahdiyanta, Hurhadiyanto, Munadi (2019) showed that the WBL learning process was more dominant in influencing student work readiness, especially in machining practices [5].

VHS of Muhammadiyah Prambanan is one of the schools implementing the dual system program. VHS of Muhammadiyah Prambanan has dozens of industrial partners who are each year used as internship location for their students. VHS of Muhammadiyah Prambanan is currently innovating, which is an online-based internship service that is expected to help internship service, overcoming problems such as incomplete internship archives and excellent service that has not yet been realized. The system is expected to also regulate internship regulation so that the 6-month street vendor program can be realized.

In its implication, this system was only used in 2019 after being designed in 2018. This system can be accessed using personal computers (PCs) and Android, which can be used for student data input, industry input, internship group input and industry data whose output is in the form of letters, both internship letters, withdrawal letters, submissions, and student assessment letters. This system is the first online system that is being run at VHS of Muhammadiyah Prambanan as a internship service system so it needs to be examined and observed more deeply. This is done as one of VHS's efforts in facing the industrial era 4.0. Research on this system was conducted to determine the effectiveness of the system itself and its impact on internship services at VHS of Muhammadiyah Prambanan. In addition, this study is intended to find out the deficiencies that need to be corrected and the steps that must be taken so that the system can run in top condition and can be used as an online-based service at VHS of Muhammadiyah Prambanan.

2. Method
The study was conducted at VHS of Muhammadiyah Prambanan using a quantitative approach with descriptive methods. Data collection was carried out on May 20-25, 2019. The research subjects were divided into two, namely internship supervisors for 5 teachers and 160 students of class XI. Samples were taken using a random sampling technique. Data collection techniques used were observation and questionnaires. Data were analyzed using descriptive analysis and quantitative data analysis.

3. Result and Discussion
The flow in using the internship information system application, which is: (1) registering by opening the web; (2) login using student ID number as a username and password; (3) registering personal data if not yet registering online by filling out the form; (4) re-login and then doing industrial data input if the destination industry not yet registered; (5) manufacture internship group objective that can be detected number of students and groups doing street vendors in the same industry; (6) printing a letter of introduction street vendors; and (7) internship endorsement letter by the principal of VHS of Muhammadiyah Prambanan, conducted by the signing by the school principal and then stamped. The flow diagram of the use of the internship information system is shown in Figure 1.
The internship service in VHS of Muhammadiyah Prambanan is divided into 3 stages, which are pre-internship, during internship process, and post-internship. Pre-internship is looking for an internship location. The next step is deliver, monitoring and withdrawal. The last step is students making internship reports and carrying out internship exams.

Implementation of internship information system to internship service in VHS of Muhammadiyah Prambanan showed quite good results already. This can be seen from the positive responses of the respondents shown in Figure 2.

![Figure 1](image1.png)

**Figure 1.** Flow chart of the use of the internship information system

**Figure 2.** Histogram of the effectiveness of internship information system application for internship services

Figure 2 explains that as many as 117 respondents or 73% can conclude that the implementation of the internship information system application is included in both categories. The next analysis is to analyze the indicators of the effectiveness of the internship information system in implementation in VHS of Muhammadiyah Prambanan. The effectiveness of the system can be measured by five indicators, namely the quality of the system, information quality, service quality, user satisfaction, and gain [6]. The results of research related to the effectiveness of the internship information system in VHS of Muhammadiyah Prambanan are shown in Figure 3.
Figure 3. Histogram of the effectiveness of internship information system application or internship services

Based on the results in figure 3, it can be seen that the effectiveness of the internship information system application is in the range of 50%-75%. It can be concluded that the implementation of the internship information system application at VHS of Muhammadiyah Prambanan is included in both categories.

Dimensions of service quality benchmarks include physical evidence, reliability, responsiveness, assurance, and communicative [7]. The results of research related to the percentage level of internship services are shown in figure 4.

Figure 4. Percentage level of internship services at VHS of Muhammadiyah Prambanan

Based on the above data it can be concluded that the internship services at VHS of Muhammadiyah Prambanan are included in both categories. This can be seen from the percentage range between 63% to 77%. The effectiveness level of the internship information system application to internship services in VHS of Muhammadiyah Prambanan is included in the good category too. This can be seen from the interrelated variables between the effectiveness of the internship information system application with internship services.

4. Conclusion
Implementation of internship information system application on internship services in VHS of Muhammadiyah Prambanan has been running with good. The results showed that the implementation of internship information system application was 73%. The effectiveness of the internship information system application is included in both categories. The details are 72% system quality, 74%
information quality, 70% service quality, 71% user satisfaction and 70% profit. The internship information system application is feasible to be applied in VHS of Muhammadiyah Prambanan, this is indicated by the percentage of effectiveness of the application of the internship information system application by 71% and internship service by 72%.

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