



## Effectiveness of Using Simpورا Application for Data Collection of Pre Popda Participants of Central Java Prefecture 2024

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### Abstract

The use of SIMPORA in registering participants is a system designed to assist event organizers in managing participant data effectively and efficiently. This study aims to determine the effectiveness of using the SIMPORA application for data collection of Pre POPDA participants in the Central Java Prefecture in 2024. This research uses the D&M *IS success model* theory by DeLone and McLean. The type and method used in this research is descriptive quantitative research. The sample in this study amounted to 42 people with convenience sampling technique. Data collection in this study by distributing surveys using questionnaires and data analysis techniques used descriptive analysis. The results of this study indicate that each indicator is declared very effective, based on the results of the analysis of the effectiveness assessment of each indicator including system quality by 88.2%, information quality by 85.4%, service quality by 85.2%, usage by 85.2%, user satisfaction by 86.1%, net benefits by 86.8%. Based on the results of the above research, it can be concluded that the resulting system is effective. This explains that SIMPORA users in the 2024 Central Java Pre POPDA activities are satisfied with the effectiveness produced by SIMPORA. So that the use of SIMPORA is needed for data collection activities at every sports event.

Keywords: Effectiveness, SIMPORA application, DeLone & McLean *IS Success Model*.

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## **A. Introduction**

Technology has become an indispensable part of the sporting world, bringing revolutionary transformations in various aspects, from training and competition to performance analysis and viewing experience. The growing and increasingly modern information technology extends to almost all areas of life now such as education, health, sports, business and others. Information technology has accelerated today's information and communication, and advanced the ability to exchange knowledge. (Mitić et al., 2017).. Information systems are one of the information technologies that can assist in various types of operations and collaboration within an agency and institution, information systems are an important factor in an agency, especially in data management, to produce relevant and effective information to assist the actions of the agency or institution. The use of information technology through information systems engaged in sports builds a sports coaching management information system to support every sports activity that will be carried out.

Sports Development Management Information System (SIMPORA), is a management information system that functions for inputting all sports data such

as athlete achievement data, athlete training schedules, supporting documents needed in administrative requirements for organizing matches and so on. The sports coaching management information system (SIMPORA) aims to implement an integrated data management information system in a computer network that can produce high-quality data to encourage the success of sports in Central Java.

The use of SIMPORA in participant data collection is a system designed to assist event organizers in managing participant data effectively and efficiently. The use of SIMPORA helps in managing athlete data online, so that participant data can be accessed easily and quickly. SIMPORA is used to help organize regional and national level sports activities in collecting participant data, one of which is POPDA at the elementary, junior high, high school and equivalent levels. Data collection of participants in organizing POPDA is an important thing to do in order to obtain accurate and up-to-date information about the participants who will take part in the event. Data that is usually collected includes diploma documents, certificates, nisp, family cards, addresses, places & dates of birth, population identification numbers and sports that will be followed. After the participant data is collected, the data then goes through a verification

process to ensure the validity of the data provided by the participant. Verified participant data can be used to create match schedules, determine match categories, and provide certificates that will be given to participants who have achieved achievements. In addition, participant data can also be used for sports event promotion purposes, such as creating activity reports, creating photo and video documentation, and so on.

Based on observations made by researchers, no data has been found that contains the results of evaluations that are seen on the effectiveness of using the SIMPORA application. In addition, there are still several problems in using the SIMPORA application such as the number of columns or menus that must be filled in so that it takes a lot of time, the data required by the system is too much, filling in athlete data must be done more than once. The above problems can occur because an evaluation has never been carried out on the level of effectiveness of using the Simpora application. The success of an information system is influenced by the ease of utilizing technology in a system that will help with its work. Based on the description above, research should be conducted on "The Effectiveness of Using the Simpora Application for Data Collection of Pre-Popda Participants in

Central Java 2024". This is because SIMPORA is a newly developed system for data collection of participants in sports events in Central Java, this system is relatively new because of its use since 2023 for data collection of PORNAS KORPRI and POPDA Brebes activities. In the KORPRI PORNAS activity, the verification stage or document validity still uses physical documents so that the coach, official or contingent in charge must carry many files, making it difficult for them to carry them. In addition, in POPDA Brebes activities, there are also problems such as the lack of socialization related to the use of SIMPORA or the lack of technical guidance to its users. This research must be conducted to determine the effectiveness of using the SIMPORA application. It is hoped that the results of this study can be input and evaluation for the responsible institution, namely DISPORAPAR Central Java, in making decisions for SIMPORA development planning in order to increase the effectiveness of using the SIMPORA application.

## **B. Research Methods**

This research method is descriptive quantitative research, the information system success measurement model proposed by William H. DeLone and Ephraim R. Mclean is the subject of this

research. with six indicators: system quality (system quality), information quality (information quality), service quality (service quality), use (use), user satisfaction (user satisfaction), and net benefits (net benefit). The effectiveness of using the simpورا application is the variable used and consists of six indicators used in this study.

The sample in this study consisted of official, coach and admin or person in charge of filling in the data of each contingent participating in the 2024 Central Java Pre Popda Karesidenan event. Researchers use convenience sampling techniques. Based on the criteria needed in the study, the number of samples in this study were 42 samples.

This study used a questionnaire as an instrument, and a Likert scale was used to rate the questionnaire statement items.

#### 1. Validity and reliability test results

The validity test in this study used Pearson's correalate-bivariate using spss software version 27. Respondents for the validity test totaled 30 respondents, so the r table used was 0.349, because r count was greater than r table, or 0.349, the validity

test results for each statement item in the questionnaire could be considered valid.

The reliability test in this study used Cronbach alpha through the Spss version 27 software with the calculation if the Cronbach alpha value > 0.6 then the instrument can be declared reliable. The results show that this research questionnaire instrument is considered reliable, with a Cronbach alpha value of 0.959, which indicates a Cronbach alpha value of more than 0.6.

The data analysis of this study was carried out with descriptive statistics. Percentage calculations to evaluate the effectiveness of research variables were carried out using calculations proposed by (Bungin, 2009: 172) in (Ajeng Prastiwi & Jumino, 2018). (Ajeng Prastiwi & Jumino, 2018):

$$P = \frac{f}{n} \times 100\%$$

Description:

P : Percentage

f : The score obtained by the respondent

n : Maximum score

The percentage results obtained are then interpreted with the effectiveness level table, as follows:

Table 1. Effectiveness Level

Effectiveness Ratio	Achievement Level
0-20%	Very Ineffective
21-40%	Ineffective
41-60%	Less Effective
61-80%	Effective

Effectiveness Ratio	Achievement Level
81-100%	Highly Effective

Source: (Sari et al., 2019)

**C. Results and Discussion**

1. Analysis of Research Data Results

Based on the results of research on the effectiveness of using the SIMPORA

application for data collection of pre-POPDA participants in Central Java 2024, the following results were obtained:

Table 4 Respondents' Responses Regarding the Effectiveness of Using the SIMPORA Application

Indicator	SS	S	RR	TS	STS
System Quality	99	100	10	1	0
Information Quality	51	112	5	0	0
Service Quality	37	85	4	0	0
Usage	16	22	3	1	0
User Satisfaction	29	52	3	0	0
Net benefits	47	76	2	1	0

Table 5 Research Results on the Effectiveness of Using the SIMPORA Application

Indicator	Percentage	Category
System Quality	88,2%	Very effective
Information Quality	85,4%	Very effective
Service Quality	85,2%	Very effective
Usage	85,2%	Very effective
User Satisfaction	86,1%	Very effective
Net benefits	86,8%	Very effective
Total Effectiveness	86,5%	Very effective

a. System Quality

Based on the percentage value of the system quality indicator of 88.2%, the use of the SIMPORA application with system quality indicators based on system flexibility, response time, system reliability, ease of use, and system security for data collection of 2024 Central Java Pre POPDA participants is declared very effective.

b. Information Quality

Based on the percentage value of the

information quality indicator of 85.4%, it can be concluded that the use of the SIMPORA application with information quality indicators based on completeness, accuracy, relevance, and timeliness for data collection of 2024 Central Java Pre POPDA participants is declared very effective.

c. Service Quality

Based on the percentage value of the service quality indicator of 85.2%, the use of the SIMPORA application with service

quality indicators based on assurance, empathy, and responsiveness for data collection of 2024 Central Java Pre POPDA participants is declared very effective.

d. Usage

Based on the percentage value of the usage indicator of 85.2%, thus, the conclusion can be made that the use of the SIMPORA application with usage indicators based on frequency of use for data collection of 2024 Central Java Pre POPDA participants is declared very effective.

e. User Satisfaction

Based on the percentage value of the user satisfaction indicator of 86.1%, thus, it can be concluded that the use of the SIMPORA application with user satisfaction indicators based on information satisfaction and overall user satisfaction produces positive results. for data collection of Pre POPDA participants in the Central Java Prefecture 2024 is declared very effective.

f. Net benefits

Based on the percentage value of the net benefit indicator of 86.8%, it can be concluded that the use of the SIMPORA application with the net benefit indicators of speed of completing tasks, ease of work, and usefulness in work for data collection of 2024 Central Java Pre POPDA

participants is declared very effective.

### **Discussion**

The results showed that the effectiveness of using the SIMPORA application for data collection of pre POPDA participants in Central Java can be declared very effective. This is indicated by all indicators of information system effectiveness, including system quality, information, service quality, usage, user satisfaction, and net benefits. The SIMPORA application has provided significant benefits to users and organizations. There is various evidence showing that the SIMPORA application, flexible in its use, can be used anywhere and anytime, and is easy to operate and understand, making the application feel appropriate to the needs and desires of users. System quality indicators have good access speed, meaning that users can quickly and easily get the information they need, and the system can protect user data from unauthorized access or misuse, so as to increase user confidence and reduce the risk of data breaches. These results are in accordance with research conducted by (Ayu Wangi Diantini et al., 2019) An information system is considered quality if it is easy to use, has fast access, a system that is well reliable, flexibility, and adequate security.

Based on the research results which

show that the information quality of the SIMPORA application is very good, this indicates that the SIMPORA application has provided relevant information, this application information is comprehensive and meets user needs. The information provided is correct and correct, reliable as a trusted source in supporting work. Good information quality can present complete, accurate, timely information, and get the latest information. If the information in the information system is complete, relevant, and in accordance with user needs, then the information is of high quality. (Ajeng Prastiwi & Jumino, 2018).

The quality of SIMPORA application services that are easily accessible, fast, accurate and informative have proven to provide important benefits for users in solving their needs more easily and quickly, thereby increasing user satisfaction and public service efficiency. The high user satisfaction with the SIMPORA application is evidenced by the survey results which show that users are satisfied with the communication services provided. Users consider that the information and education provided by SIMPORA is easy to understand and useful, and the team in charge of SIMPORA is responsive and solutive in handling user complaints and questions. In addition, users feel safe and secure when accessing and sending data in

SIMPORA because SIMPORA implements various sophisticated security features to protect user data. When information system users are satisfied with the services they receive, which can be measured by reaction time, confidence or a sense of security from uncertainty and danger, empathy, or pride in using the information system is considered effective. (Lintang Alifia Ashari & Ani Noor, 2023). The SIMPORA application has become the main choice for data collection of participants in organizing sports activities, one of which is the Pre POPDA in Central Java. The role of SIMPORA is very important in helping to manage athlete data in a more structured, efficient and secure manner. SIMPORA provides various features that facilitate the athlete data collection process, such as the upload feature for nisn documents, deeds, diplomas, and kk / kia / aktp cards and the verification process or document validity is carried out online and centralized data storage.

SIMPORA application provides high user satisfaction by prioritizing guaranteed data security, ease of access, and accuracy of information. SIMPORA users feel safe and calm using SIMPORA because their data privacy is well maintained. In addition, SIMPORA allows users to easily find what they need with a user-friendly interface that is easy to understand. SIMPORA users

experience tangible benefits in various aspects, such as high efficiency, helping users save time and effort by providing features that facilitate the participant data collection process, such as data collection that can be done anytime and anywhere. These real benefits have an impact on user satisfaction and positive impressions of SIMPORA, users are satisfied with SIMPORA services and give a positive impression of the SIMPORA application, especially at the file verification stage. At the file verification stage currently only uses softfile data so that the coach or person in charge of each contingent does not have to bother bringing hardfile files. This research is in accordance with the theory put forward by (Iivari, 2005) in (Ayu Wangi Diantini et al., 2019) that a user-friendly information system will be able to increase user satisfaction.

The use of the SIMPORA application can reduce the need to perform many time-consuming manual tasks, such as data collection of participants by inputting athlete data through the system and uploading documents online, thus reducing the use of paper. Thus, officers can complete work more quickly and concentrate on more important tasks. More actual and accurate data collection helps make better and strategic decisions, such as providing information on the latest match

schedules and results. The SIMPORA application provides a centralized system to store all athlete data, including personal information, achievements, and so on, making it easier to access and manage the information needed. This centralized data minimizes the risk of data loss and ensures consistency of information. The application of the SIMPORA application for data collection of athletes in the implementation of effective sports activities, helps organizations to improve efficiency, effectiveness, and quality of work, thereby increasing productivity and overall work performance. The SIMPORA application is very helpful for the Pre PODA activity organizing team in the Central Java Prefecture, with the use of the SIMPORA application work can be completed easily and quickly, such as data collection of participants using the system and can be accessed anytime and anywhere. With the many benefits that SIMPORA has produced, therefore the effectiveness of using the SIMPORA application has worked well according to user needs, therefore, the SIMPORA application is used to help sports activities in Central Java so that SIMPORA users will be helped more by their work and shorten time.

#### **D. Conclusion**

By considering the results of the above research, we can conclude that the resulting



system is effective. This explains that SIMPORA users in the 2024 Central Java Pre POPDA activities are satisfied with the effectiveness produced by SIMPORA. So that the use of SIMPORA is needed for data collection activities at every sports event.

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### F. Conflict of Interest

No conflict of interest

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