

Effectiveness of KONI Tuban Monitoring System Application in Sports Week Preparation in East Java Province

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Abstract

This study aims to develop a KONI monitoring system in Tuban District and to find out the effectiveness of an android-based monitoring system application for the preparation of Sports Week in East Java Province. This research uses the procedural method of the Borg and Gall development model using only three steps, namely, research and data collection, planning, and development. The research subjects of KONI administrators in Tuban or the Special Team for the Preparation of Provincial Sports Week are named SATLAK PANTAS (Implementing the Program for Adding Gold Programs), administrators of sport branches, and athletes. The results of this study are android-based application products, which are named E-Monitoring Athlete Success Tuban or abbreviated as E-MAS Tuban, and respondents' responses from the aspect of application effectiveness get a percentage rating of 93%. From the aspect of the application, functions get a percentage rating of 93%. Based on the results of this study, the conclusions obtained are the effectiveness and function of the KONI monitoring system application in Tuban as a good medium for monitoring sports branches in preparation for the Sports Week in East Java Province.

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INTRODUCTION

The sports championship program organized by the Indonesian National Sports Committee as a form of coaching and screening of potential athletes, the first is the District Sports Week, a district-level competition sports competition organized by the Regional KONI at Regency level. The competition that was contested sport that much loved by the community because the Regency Sports Week championship was an inter-district competition and selection of athletes to represent the districts in the competition at the Provincial level. Furthermore, the Provincial Sports Week is a prestigious championship between regencies because, in the tournament, the performance of the local government and KONI in the match will be seen in carrying out sports development programs and achievement sports coaching to take part in the Provincial Sports Week championship. After the Provincial Sports Week continues the National Sports Week which competes between provinces at the National level after the selection of athletes through competitions from the local to national level there is the most prestigious competition awaited by the Indonesian people namely the Asian Games, Sea Games, and the Olympics therefore in the implementation of the competition from the level regional to national needs seriousness in preparing championships and coaching athletes in sports so that later Indonesia can excel at the world level in the field of sports. Rumini (2015), the success of achievement cannot be separated from the management of the organization's management.

The role of monitoring in organizations is to achieve organizational goals, as stated by Widyati in Herliana and Rasyid (2016). Role monitoring to know and evaluate the development of planned actions as well as to find out improvements in the organization. Each organization has its purpose, while for monitoring is to assess whether the activities carried out following the plan, identify problems that arise so that can be directly addressed, whether the work and management patterns used

are appropriate to achieve the goals, find out the relationship between activities a measure of progress in Mudjahidin and Putra (2010). Based on the explanation that has been stated that monitoring in the process of achieving organizational goals is a vital part of the KONI sports organization because, in the organizational structure, KONI oversees the Sports Branch Organization.

Progress of the times in the industrial era 4.0 is efficient in carrying out organizational management to achieve its goals, so organizations need to keep abreast of the times. One of Industry 4.0's principles is to gather as much information as possible in real-time from all the different parts of the value chain. Also, data collection must be as efficient as fast and as flexible as possible, which involves collecting and analyzing data with a computerized machine that also helps reduce production costs and improve quality. To achieve these improvements, the IIoT system and the Cyber-Physical System (CPS) are very important, because it allows collecting, processing, and storing data obtained in the real world (Carames, T. M., & Lamas, P., 2018). One of the management principles is structural supervision and coordination to run the organization. Many cases in the application of Industry 4.0 have shown that the connection between humans, systems, and objects has become a more complex, dynamic, and real-time optimized network. On the other hand, there is the fact of data volume and increased availability in real-time, which causes new requirements from infrastructure, management, technology, and so on (Tupa, J., Simota, J., and Steiner, F, 2017). A smartphone is a form of the progress of the times because it has a popular operating system, the Android operating system (Titting, Hidayah, and Pramono, 2016).

E-Monitoring is a monitoring and reporting system with electronic delivery so that it can be monitored continuously online for an expected quality assessment (Afriansyah.A, Abdilah, L.A, Ansriyani. R, 2015). E-Monitoring system will facilitate the supervision if viewed from a distance will increase the effectiveness of time, because the principle of management

supervision is the most important thing to achieve organizational goals.

KONI in Tuban Regency is one of the sports organizations responsible for the development of sports Regency by carrying out the organization's management that has been arranged to achieve the agreed vision. Quoting from the KONI Tuban website, the mission is to improve sports achievements in Tuban, through fostering organizations and increasing effective sports resources, the use of sports science and technology, and building sportsman character to create athletes who excel at the regional level. KONI in Tuban Regency is a Regency in the area of East Java Province, which if referring to the structural hierarchy of the organization under the auspices of KONI in East Java Province. Sports Week in East Java Province is a championship prepared by the Regional KONI in the East Java region, especially KONI in Tuban Regency. To prepare for the Sports Week championship in East Java Province, KONI in Tuban Regency runs an organization in coordination with the local government with a work program developed one of which facilitates and evaluates the implementation of policies for the development of sports branches under the auspices of KONI in Tuban Regency (AD ART KONI, 2014).

KONI Tuban has not yet implemented a monitoring system with an android-based application in preparation for the Sports Week championship in East Java Province, but KONI Tuban has formed a Special Team for the preparation of the East Java Province Sports Week which is named SATLAK PANTAS (Tuban Add Gold Implementing Unit) whose task is to oversee the sports branch directly in the field in running an athlete coaching program in preparation for the Provincial Sports Week

besides KONI Tuban has the official website KONI Tuban (www.konituban.com) which functions as a media for information on sports achievement in Tuban and KONI Tuban profile that can be accessed by the general public. Rests from interrelated management functions that are evaluated for the need for alternative steps before taking action for the needs of the organization (Yunida, Sugiharto, & Soenyoto, 2017).

Researchers found weaknesses in the supervision system implemented by SATLAK PANTAS Tuban Team during the preparation in 2019 Provincial Sports Week in three sports organizations, namely the Archery, Athletics and Futsal sports in carrying out the supervision of SATLAK PANTAS Tuban Team using the Forum Group Discussion method (FGD) and direct observation of the sports coaching program in the field. The weakness according to the researchers is the ineffectiveness in carrying out supervision because the results of interviews with the sports organizations of the SATLAK PANTAS Tuban Team for the intensity of supervision are still lacking due to the number of sporting organizations that need to be watched by 32 sports organizations with different training locations which are projected to follow the Sports Week championships in the Province East Java VI in 2019, while observations from researchers also found weaknesses in determining benchmarks for the evaluation of sports organizations because there is no database of training programs and detailed performance charts of sports because they still use a manual system.

To make it easy to analyze the weaknesses of the program carried out by the SATLAK PANTAS Team Tuban, the researchers concluded in table 1.

Table 1. Analysis of SATLAK PANTAS Program

SATLAK PANTAS TUBAN (Special Team for the Preparation of Sports Week in East Java Province)	
Core Work Program	Weakness
Monitoring sports coaching activities and sports branch achievements for selecting athletes for the Provincial Sports Week championship	It is not effective to look at the field directly, because the place of formation between sports is different, and there is a lack of achievement graphs for each sport
Data Collection of Sports Branches, Athletes, Coaches, Management, work programs and achievements of sports branches	Data collection administration no data backup will potentially be tucked, and add to the burden of time the Sports Branch to submit data directly
Routinely monitoring every sport that is projected to take part in Provincial Sports Week	Less effective in time, and economically less efficient, if monitoring sports regularly on the field directly
Analyze the effectiveness of the athlete's branch sports training patterns	The evaluation material benchmarks lack detail to be submitted to the Sports Branch

Based on the background that has been outlined, the research to develop KONI Monitoring System in Tuban in the form of an android-based application whose design was developed creatively, and innovatively so that it was easy to understand, thus helping the KONI in Tuban Regency oversee the development of sports in implementing the program. Coaching athletes to prepare for the Sports Week championship in East Java Province.

METHODS

This research is a research development of monitoring system device for sports branch organizations KONI Tuban Regency in preparation for the Sports Week championship in East Java Province based on an android application. The development of the monitoring system tool refers to the development of a model developed by Borg and Gall, which is a procedural development model. The procedural model in question is a descriptive model that illustrates the flow and steps that must be followed to produce Borg and Gall (1998) products. The Borg and Gall procedure in Adila (2017) describes the steps of implementing the research and development strategy as follows: Research and information collecting, Planning, Develop a preliminary form of product, Preliminary field testing, Primary product revision, Main field testing, Operational product revision, Functional field testing, Final product revision, Dissemination, and implementation.

The development procedure described above is certainly not a development research step that must be followed by a total. Each research development can determine and choose

the most appropriate steps in the research development process (Ardhana, 2006: 9). Then the development model in this research will be used and simplified can be implemented effectively and efficiently. The steps are Research and data collection, Product Planning, and Product draft development. The data obtained in the form of quantitative and qualitative data. Quantitative data based on respondents through questionnaire data and qualitative based on interview respondents are not structured as supporting research data.

RESULTS AND DISCUSSION

The problems that exist in the preparation of the Sports Week in East Java Province, which was formed by a select team by KONI in Tuban named SATLAK PANTAS, stands for the Implementing Unit for Adding Gold Program. SATLAK PANTAS team has the function of being responsible for overseeing and evaluating the sports branches projected by KONI in Tuban for the Sports Week championship in East Java Province. The problem found in the preparation of the Sports Week in East Java Province is the ineffectiveness and inefficiency of the supervision of Team to sports branches because of the number of sports registered at KONI Tuban is 34. In contrast, the training ground for each game is different, so that less effective economy and time.

Furthermore, the initial product analysis phase of the application determines the selection of formats for designing Android-based application products including the contents of KONI Tuban profile content, the Sports Branch Profile along with the posting column as monitoring material as well as the acquisition of

championship medals, and the profile of athletes participating in the Provincial Sports Week championship. The division of application users can be divided into three, namely KONI users in Tuban as application controllers and program supervisors of sports branches, Sports Branch users as monitored parties in implementing posted programs applied, and Athlete users as supporters of sports branches in the implementation of published programs being applied.

The final draft of the monitoring system product KONI Tuban in preparation for the Sports Week in East Java Province was obtained based on the results of the assessment and advice from expert validators before testing the respondents to determine the effectiveness of the application. Expert Validator following his competence, namely Material Expert and Media Expert, whose assessment process will produce initial product revision material through suggestions for improvement and assessment results of the initial product. Application products can be downloaded on the website www.emastuban.com can only be operated via an android-based mobile phone.

Figure 1. Display Application Home

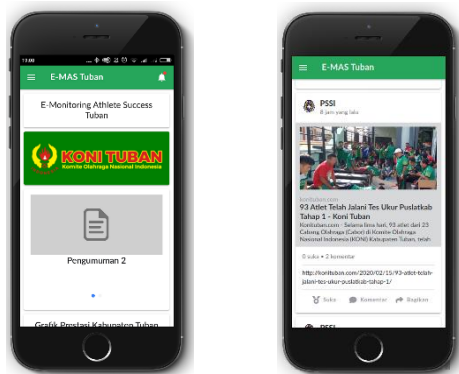
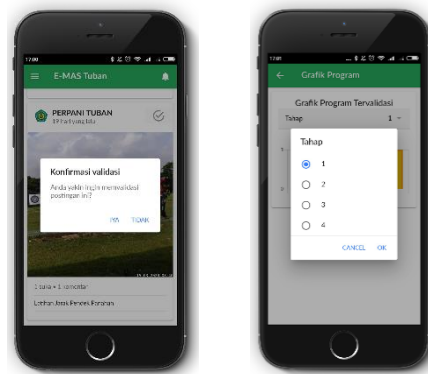


Figure 2. Display User Admin, and Sports Branch Profile



Figure 3. Display of Validation and Validated Program Stage



The implementation phase of the trial is limited to determine the effectiveness of monitoring system application organization KONI Tuban. Respondents chosen to assess the efficacy of the E-Monitoring Athlete Success Tuban application are representatives of KONI Tuban management or SATLAK PANTAS Team, Sports Branch management, and athletes. Representatives of each research subject amounted to 5 respondents using a purposive random sampling method, so the total number of respondents chosen was 15 respondents. Selected respondents represented by KONI Tuban Board or SATLAK PANTAS Team, Sports Branch Manager, and Athletes.

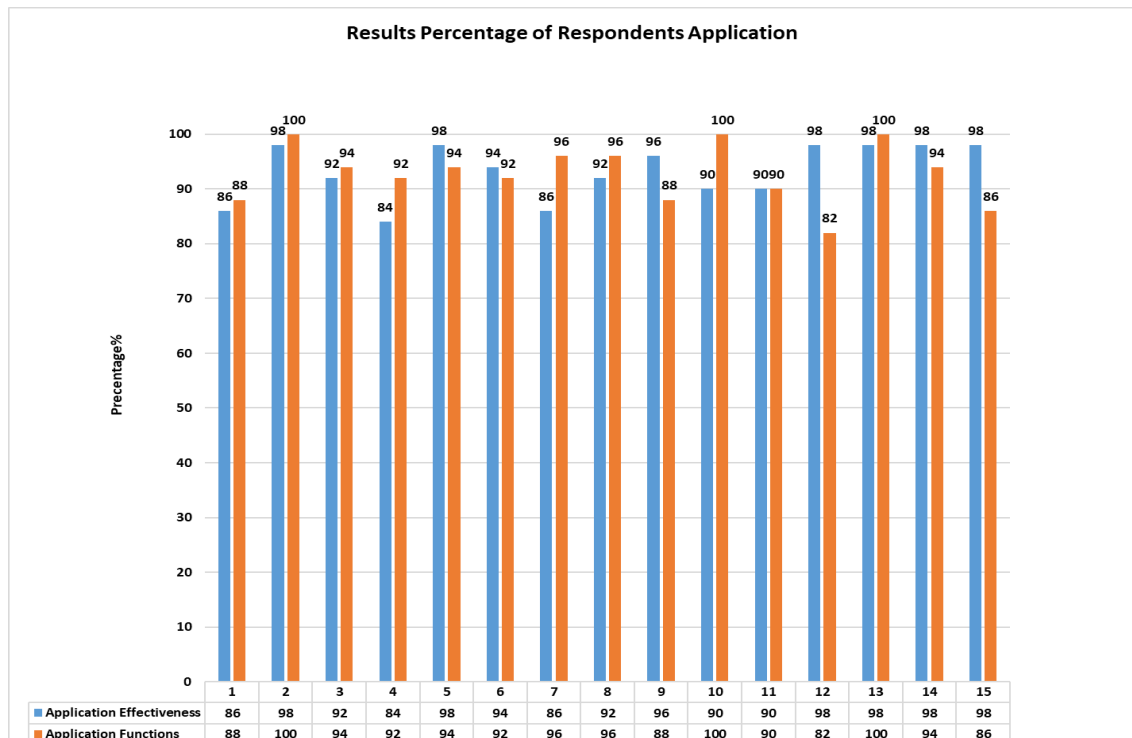
The implementation of respondent assessment also provided an opinion on the E-Monitoring Athlete Success Tuban application. Mr. Faisol Romadian as FPTI administrator in Tuban Regency from the sport of rock climbing said that the e-monitoring application was

beneficial in achievements in Tuban District, so that transparency in allocating budget funds, because KONI Tuban still uses a manual system in reporting the accomplishments of sports branches. The management of the FORKI karate branch represented by Mr. Anang Wibisono as the general secretary of FORKI Tuban said that in the process of reporting sports training activities or programs reported through social media groups which he said was less effective because only training photos or activity program photos were sent. So this e-monitoring application is beneficial in the process of supervising sports branches in carrying out exercises, and KONI Tuban does not have an e-monitoring application based on android. Furthermore, from the athletic sport as the respondent in this study, Yanuar Wijiatmoko as the organizer of PASI Tuban in the early age coaching field, said that monitoring evaluation of games in Tuban was not proper, because the periodization had not been well-formed. If SATLAK PANTAS team would supervise the training site first used to inform the sports branch so that the sports branch which was less active in implementing the exercise was preparing for the practice when SATLAK PANTAS Team would be monitoring at the training ground,

the e-monitoring application was beneficial because in the posting content there was information on the time of the exercise, so the sports branch unable to manipulate the training.

So from the opinion of respondents from the sport that is given, it can be said that the Android-based Athlete Success Tuban E-Monitoring application is beneficial for the sport in the supervision process of KONI Tuban or SATLAK PANTAS Team. Because the application is equipped with sports performance chart content and transparency of training activities that cannot be manipulated, SATLAK PANTAS Team Leader Mr. M. Zainudin, S.Pd, agreed that the e-monitoring application assisted the sports branch in the reporting process also helped the SATLAK PANTAS Team to obtain more detailed reports, because the application content was completed as needed by the Team. Mr. Zaenudin Maftuhien, M.Pd as the General Secretary of KONI Tuban, that the E-Monitoring application is an innovative tool in the process of fostering sports achievements in Tuban Regency because it also helps KONI in supervising the sports branches registered in the KONI Tuban database.

Figure 4. Respondent Assessment Results



The results of the assessment of respondents obtained related to the application of the KONI Tuban monitoring system in preparation for the Sports Week in East Java Province from the aspect of the effectiveness of the E-MAS Tuban application get an average value = 4.6 of the total respondents who have given the assessment. If it is converted in the percentage of appraisal aspects of application effectiveness, it gets 93%, which means that the effectiveness of the E-MAS Tuban application is categorized very well. As for the aspect of application functions, it gets an average value = 4.6, and when converted, the percentage of ratings gets 93%, which means the Tuban E-MAS application function is categorized very well. Then the overall assessment of the Athlete Success Tuban E-Monitoring application obtained an average value = 4.6. The percentage of assessment got 92% of the aspects of the effectiveness and function of the E-MAS Tuban application, so the application was categorized very well because the percentage rating scale was 81% - 100 % is in the very good category so from the assessment results obtained that the E-Monitoring application.

Athlete Success Tuban is based on Android, KONI Tuban can be used as a monitoring media for the process of preparing for the Sports Week in East Java Province.

CONCLUSION

The product produced in the research development of the KONI Tuban monitoring system in preparation for the Sports Week in East Java Province is an android-based application that can only be operated via a mobile phone named E-MAS Tuban which stands for E-Monitoring Athlete Success Tuban. Based on the analysis of KONI Tuban needs, so that the monitoring process can run effectively and efficiently as a media monitoring KONI Tuban in sports to prepare for the Sports Week in East Java Province.

The results of android-based application products can be downloaded at

www.emastuban.com, which has three users to log in the application, namely the KONI Tuban user as the application admin, the user of the sport as a monitored party, and the athlete user as a supporter of the sport. The results of the assessment of respondents on aspects of the effectiveness of the KONI Tuban monitoring system application in the preparation of the Sports Week in East Java Province obtained an average score of 4.6 with a percentage of 93%, and the acquisition of an evaluation of the aspects of the application function obtained an average of 4.6 with a percentage of 93%. Then the overall response from respondents regarding the application of E-Monitoring Athlete Success Tuban obtained a percentage of 92%, which was declared a very good category. So the E-MAS Tuban application is very good ineffectiveness and application functions as a KONI Tuban monitoring media in preparation for the Sports Week in East Java Province.

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