

## The Digital Scoring of Pencak Silat Matches as a Supporting Application for Event Organizer Entrepreneurs

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### Abstract

*An event Organizer is the manager of an activity or event that is held to make a profit for the event organizer and those present at the time the activity takes place. The Event Organizer service business requires creative and innovative people who are rich in ideas or concepts and have a wide network of friends. Event Organizer Entrepreneurs do not require a special place such as an office or special workspace but can be done by working from home, utilizing a PC or Laptop, and optimizing communication and presentation skills to prospective clients, even the Event Organizer business does not require a large initial capital. The main goal of the research is to produce a product that can realize a quality match with a transparent digital scoring system. In addition, this digital scoring application is a supporting application in starting an entrepreneur in the Event Organizer field because this application can be rented out in every Pencak Silat championship that requires this assessment application. This design is based on the flow chart of Nasir's research methodology which includes; the identification of problems, formulation of problems, determining the purpose of benefits and limitations, preliminary survey-observation, literature study. The design uses the waterfall model, a classical model that is systematic, sequentially, step by step through which it must wait for the completion of the previous stage. Validity Test The digital scoring application is in the very valid category.*

### Keywords

entrepreneurship; event organizer; digital scoring; pencak silat



## I. Introduction

Event organizer (EO) is a type of business in the world of entertainment business that requires competent human resources in this field. (Dwi Juniansyah et al., 2020) *event planner* (EO) is a type of business in the entertainment business world that requires competent human resources in this field (Rumerung, 2018). Event Organizer in a simple sense is the manager of an activity or event. Every activity held is intended to provide benefits for event organizers and those present at the time the activity takes place.(Rumerung, 2018). EO business is a form of entrepreneurship with business opportunities that are still quite large. This field of EO services can be performed by anyone who wishes to become an entrepreneur. The role of character in entrepreneurship in this field determines its success. Many elements of EO management require the role of a person with true entrepreneurial character.(Andajani, 2012). EO has many series of activities in one event held. Event schedule can be more than one day.

In this case the management information system is very helpful and facilitates the continuation of the event.(Gede Yudiyana et al., 2019).

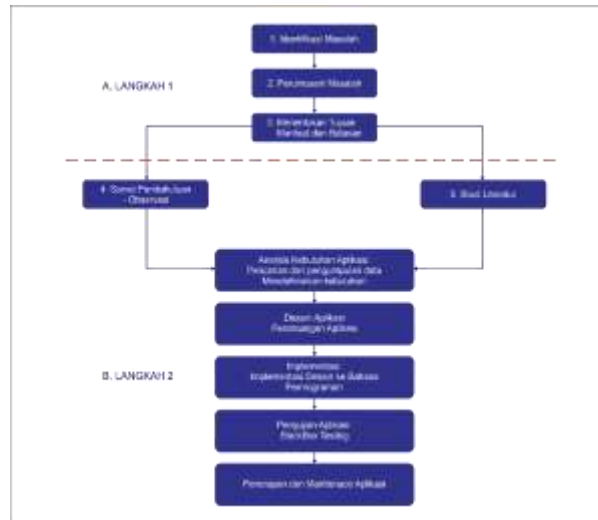
Event organizer services in the field of sports are quite needed. In the sport of Pencak Silat, EO is more often in charge of organizing Pencak Silat championship activities. The activities carried out by EO are very tight and scheduled, starting from promoting events, informing offline events by directly sending invitations to colleges or schools, and also online spreading information using social media. The EO is also in charge of managing the registration of participants (pencak silat athletes), compiling a "complaint chart" namely the schedule for each athlete to fight in the arena, the EO also manages accommodation and consumption during activities and even manages the fees for match officials. Not infrequently EO also provides activities outside the event such as tours organized by the organizers.

In organizing the pencak silat championship, the EO in charge of managing the event is usually the owner of the digital scoring application, which is an application for evaluating athletes competing in the arena. To address the challenges and harness the opportunities offered by digital technologies during this crisis, participants shared a concern to recognize and protect digital rights in particular around the areas of privacy and inclusion (Hariati, 2021). This can be interpreted as internet users in Indonesia belongs to the category of digital natives group (Gunawan, 2020). The use of digital technology worldwide is increasing, (Yugo, 2021). Technological developments in the digital era demand that assessments using paper assessment forms need to be reduced and switch to digital assessments as an effort to improve the quality of Pencak Silat matches (Khairi et al., 2022). According to Pramusinto (2020) the power of technology including digitalization and automation continues to grow and change the pattern of production, distribution, and consumption. As with other areas of life, technology is used to make changes, so also with the legal system as technology in making changes (Hartanto, 2020). Meanwhile, the use of information technology is the benefit expected by users of information systems in carrying out their duties where the measurement is based on the intensity of utilization, the frequency of use and the number of applications or software used (Marlizar, 2021). Pencak Silat EOs are people who have a basic interest in pencak silat, then move in an organization to organize events from planning, executing to post-event. In Indonesia, Pencak Silat EO services have started to develop but are considered unable to become an attractive option for some of our society to be used as the main source of income.(Prime De Keizer, 2011). However, having the Pencak Silat digital scoring application is an opportunity to start an EO service entrepreneur considering that EO services are needed at every Pencak Silat championship in Indonesia, it is not uncommon for Pencak Silat EOs from Indonesia to be in charge of managing events abroad such as Malaysia and Singapore.

In West Sumatra, the Digital Scoring application is not yet available, so the implementation of the Pencak Silat championship still uses manual scoring using blanks in the form of paper. The main objective of this research is to produce a product that is capable of realizing quality matches with a transparent digital scoring system. In addition, this digital scoring application is a supporting application in starting entrepreneurship in the Even Organizer field.

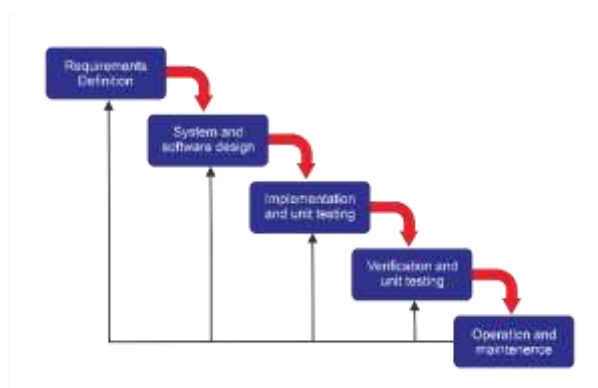
## II. Research Method

This digital scoring design research was carried out based on Nasir's research methodology flow chart which includes (1) Problem Identification, (2) Problem formulation, (3) Determining Benefit Objectives and limitations, (4) Preliminary Survey-Observation, (5) Literature Study. As shown in the following figure.(Khairi et al., 2022).



**Figure 1.** Research Flowchart (Nazir, 2015)(Khairi et al., 2022)

This study uses the waterfall model because the stages that are passed must wait for the completion of the previous stage and run sequentially. Step by step that must be completed one by one (cannot jump to the next stage) and run sequentially. According to Pressman, the waterfall model is a classic model that is systematic, sequential in building software. The name of this model is actually "Linear Sequential Model". This model is often referred to as the "classic life cycle". This model takes a systematic and sequential approach, carried out with a systematic approach, starting from the stage of system requirements and then moving on to the stages of analysis, design, coding, testing/verification, and maintenance.(Lafu, 2021).



**Figure 2.** Stages of the waterfall model.(Khairi et al., 2022)

## IV. Discussion

### 3.1 Study on Entrepreneurship

Entrepreneurship is defined as the ability and willingness to develop, organize and manage a business with all the risks for profit. In other words an entrepreneur is “a person who starts a business and is willing to risk loss in order to make money.(Memon, 2016). Ministry of Education and Culture 2010 revealed the meaning of entrepreneurship is an attitude, soul and ability to create something new that is very valuable and useful for himself and others. Entrepreneurship is a mental attitude and soul that is always active or creative, empowered, created, created and modest and strives to increase income in its business activities.(Kholifah & Nurtanto, n.d.). Developing countries like Malaysia encourage students to get involved in entrepreneurship and regard entrepreneurship as a career option. It is widely known that in the future, students are an important source of nascent entrepreneurship (Nabila et al., 2016). Not only in Malaysia, in Indonesia, entrepreneurship courses have become mandatory courses in tertiary institutions with the aim of fostering interest in entrepreneurship among students.

Entrepreneurship education is defined as conveying entrepreneurial knowledge to students in terms of concepts, skills, behavior and continuing to become entrepreneurs and states that Enterprise has become an indication of a country's economic growth.(Edusainstek et al., 2018). It is undeniable that the interest in entrepreneurship in Indonesia is very low so that people who do entrepreneurship are relatively small. Entrepreneurship can be called one of the solutions to address the gap between the growth of the productive age population and the availability of jobs to reduce unemployment in developing countries such as Indonesia. [9].

In various literatures the term entrepreneur is often equated with the term self-employed, while from various opinions the two terms are very different. According to Sartono et al, 2014, etymologically entrepreneur consists of three equivalent words namely wira, swa and ta. Wira is a superior human being, exemplary, virtuous, big-hearted, brave, a hero/warrior of progress who has a noble character. Swa is alone Ta is standing. So, Entrepreneur is courage, virtue and courage in meeting needs and solving life's problems with the strength that is in oneself. Meanwhile, according to Frinces (2010), entrepreneur or entrepreneur comes from the French word *entreprendre* which means to undertake or try.(Economy & Akbar, 2021). Entrepreneurship plays a dominant role in driving the economy on a local, regional and global scale. Entrepreneurs who are dynamic and committed to success are proven to influence economic growth and prosperity. Entrepreneurs who have a leadership spirit and entrepreneurial spirit will lead the economic revolution towards increasing a more decent standard of living (Kholifah & Nurtanto, n.d.)

### 3.2 Study of Event Organizers

Event organizer consists of two words in English, namely event and organizer. Event means an event or activity, while the organizer is the regulator or organizer. The literal meaning of the Event Organizer is very simple, namely the party that organizes the event, but if you deepen the meaning, the activities carried out will be very complicated because the regulator is not just one person but consists of a team with many members, each of whom oversees a field according to his expertise. The word event also has various meanings ranging from music art performances, dance arts, exhibitions, sports competitions, seminars, product launches, product promotions, and others (Sutawidjaya & Nawangsari, 2018). According to (Misal et al., 2017) EO is a professional organization in which there is a group of people who organize an event with a number of task items with a proportional distribution of each member(Dwi Juniansyah et al., 2020). The EO service business requires creative and

innovative people, rich with ideas or concepts, and has a wide network of friends. Starting an EO business doesn't even require a special place such as an office or a special workspace, but can be done by working from home, using a PC or laptop and optimizing communication and presentation skills to prospective clients. Even the EO service business does not require a large initial capital.(Prime De Keizer, 2011).

According to (Nugroho et al., 2017), from the point of view of EO service users, there are also several problems in determining which EO should take over the event activities carried out, including availability costs that need to be adjusted to the packages offered by the EO. the types of activities that can be held by the EO, the distance between the EO and the location of the activity, the desired theme in accordance with the EO offer, and the duration of time also influence the determining factors for selecting an EO(Setiawan, 2020). Events held by event organizers do not just set up a stage, bring in bands, concerts, sports and others, because basically there are several types of event organizers that are known so far, including: (1) One stop service agency is an EO which is able to organize various types of events on a large scale from local to international levels. This EO is fully responsible in terms of place, decoration, and others according to the needs and wishes of the client. Examples of events carried out by the One Stop Service Agency are performances that have thousands of spectators such as music concerts, big parties, to international class music performances and concerts. (2) MICE otherwise known as Meeting, Incentive, Convention and Exhibition.(Cuba & Guntara, 2021).

### **3.3 Study of Pencak Silat**

Pencak silat has long been part of the culture of the people of the archipelago. As a tradition, pencak silat grows and develops in many areas with various variants of its movements. Pencak silat is an original Indonesian martial art that is worldwide, becoming a sport that is competed at the international level. Officially, pencak silat has entered as a sport in international competitions such as the SEA Games. In fact, it is currently preparing for a prestigious world-class sports competition like the Olympics. The change in Pencak Silat competition regulations from the 2012 regulations to the 2022 regulations is an effort to prepare Pencak Silat to be competed in the Olympics. The Indonesian Pencak Silat Association (IPSI) almost every year organizes various pencak silat championship events in various cities in Indonesia.

Pencak silat championships must be managed professionally. This is because the system of pencak silat matches is much more complicated than the implementation of other sports championships because in each championship there are always many participants and hundreds of parties compete. If the organizing committee is not careful so that a fatal error occurs, it can disrupt the course of the match. So, a wave of protests from coaches, athletes and even spectators could not be avoided. Early mistakes in participant registration can result in a fighter not being included in the competition schedule. This is a problem that occurs when the data management process is done manually so the potential for human error is quite high.(Wardana & Aribowo, 2021). Likewise in the jury's assessment when athletes compete in the arena, scoring manually with paper blanks for judging results in proneness to errors. Therefore, the use of the Digital Scoring application is a solution to minimize human error. The main task of the EO is to manage and regulate (setting) the digital scoring application, the main thing is to manage the order and smooth running of the match in a professional manner.



### 3.4 Study on Digital Scoring

The Digital scoring application was built with the aim of facilitating the task of match officials both as judges and referees, while at the same time being able to display scores in real time and transparently which can be seen by fighters, coaches and spectators present at the arena.(Khairi et al., 2022). The use of Digital scoring in Event Organizer entrepreneurship can be referred to as a Technopreneur, which is a description of entrepreneurship using technology-based innovation. Technopreneur is part of the development of entrepreneurship. The technopreneur concept is based on a technology base that is used as an entrepreneurial tool, for example the emergence of online application businesses, security system businesses and so on.(Cape & Ganefri, 2020). This digital scoring application is the initial capital for starting Entrepreneurial Organizers of Pencak Silat matches because with this application they can offer match management services ranging from event promotion, athlete registration, complaint preparation, jury score management through the application, determining the winner for each category and match class, up to the determination of the overall champion.



**Figure 3.** Blank Jury Digital Assessment (Khairi et al., 2022)

Match	Red	Blue	Yellow	Green	Black	White	Grey	Light Blue	Light Green	Light Yellow	Light Purple	Light Orange	Light Pink	Light Brown	Light Grey	Light Blue	Light Green	Light Yellow	Light Purple	Light Orange	Light Pink	Light Brown	Light Grey
1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
TOTAL	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

**Figure 4.** Recapitulation of the Value of the Referee-judge Board (Khairi et al., 2022)

REKAP HASIL PERTANDINGAN												
ALJ						BUDI						
Match	Red	Blue	Yellow	Green	Black	White	Grey	Light Blue	Light Green	Light Yellow	Light Purple	Light Orange
1	8	1	2	29	17	10	14	9	25	29		
2	14	13	26	13	0	0	11	8	0	0		
3	-3	10	0	0	0	0	0	0	0	0		
TOTAL	19	24	28	42	17	10	25	17	25	29		
	114						122					

**Figure 5.** Display Value to the Public (Khairi et al., 2022)

The digital scoring application that was built has gone through the validity testing stage conducted by Ms. Afrida Yanti, S.Sos, a practitioner of the Pencak Silat sport, an international referee-jury and holds a position at IPSI Padang city as chair of the referee-judge institution. The validity test is carried out in order to obtain input regarding the

suitability of the designed digital scoring application. By using the following formula Sugyono (2016:95).(Khairi et al., 2022).

$$\text{Validity Value} = \frac{\text{Total Score Obtained}}{\text{Maximum Score}} \times 100\%$$

$$\text{Value Validity} = \frac{70}{72} \times 100\% = 96$$

The application is in the Very Valid category.

According to Sugyono (2016: 99) the procedure for determining the level of validity is obtained by criteria such as the following table:(Khairi et al., 2022)

No	Score(%)	Category
1	80% - 100%	Very valid
2	60% - 79%	Valid
3	40% - 59%	Pretty valid
4	20% - 39%	Less valid
5	0% - 19%	Totally invalid

## V. Conclusion

In a Pencak Silat competition, an athlete's victory is measured by his fighting ability, mastering silat techniques, as well as intelligence in formulating a fighting strategy. However, the jury's judgment determines whether a fighter wins or loses. The jury has the authority in judging, because it requires an honest judgment application. Digital Scoring was built to improve match quality with a transparent scoring system. By providing this digital scoring application, an entrepreneur can start and develop an event organizer business while at the same time participating in improving the quality of pencak silat competitions in every championship in various national and international regions. In a competition managed by EO, a digital scoring application is offered in a package including: event promotion, athlete registration, compiling complaints, managing winners, and the EO can also take care of consumption, accommodation, and payment of honorarium for match officials. The EO service business requires creative and innovative people, rich with ideas or concepts, and has a wide network of friends. Starting an EO business doesn't even require a special place such as an office or a special workspace, but can be done by working from home, using a PC or laptop and optimizing communication and presentation skills to prospective clients. Even the EO service business does not require a large initial capital.

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