



Needs analysis on using flip PDF professional-based e-book for sepak takraw learning

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Abstract: The problem in this research is that there are no application-based books created by the lecturers when teaching sepak takraw courses. This is a quantitative descriptive research using the survey method with 23 respondents from the third-semester students of the Physical Education and Health Study Program, Faculty of Teacher Training and Education, Sriwijaya University. This study concluded that a Flip PDF Professional-based e-Book is necessary for the sepak takraw learning course. Therefore, Flip PDF Professional-based e-Book for sepak takraw learning course can help students understand the material because of its' interesting presentation and variations.

Keywords: portable document format; sepak takraw; e-book.

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INTRODUCTION

In practice, sepak takraw is played by kicking the ball with your feet over the opponent's net to win the game (Aryanti et al., 2021). In addition, the game of takraw can instill cooperation between teams when playing and also playing takraw is very fun (Aryanti et al., 2021).

Based on the observation, there was a problem that the books which created by lecturers used for teaching sepak takraw to the third-semester students of the Physical and Health Education Study Program, Faculty of Teacher Training and Education, Sriwijaya University did not contain utilization of advance technology. The books were just conventional textbooks, not electronic-based textbooks. Therefore, Flip PDF Professional-based e-Book is necessarily needed.

The availability of teaching materials for lecturers has an important role in the learning process, since the efficiency of teaching time can be increased (Irawati & Saifuddin, 2018). Textbook is used as student's references in learning which can increase understanding of knowledge (Setyawan, 2018). In addition, it can make students study independently and can be a source of learning (Surahman & Yeni, 2019). The textbook contains a series of lessons that are compiled to increase student's competencies so that educational goals can be achieved (Habibie & Trifitrianto, 2020). Textbooks in this era can utilize more science and technology. A textbook that used science and technology is e-Book.



The urgency in conducting this research was the need of a Flip PDF Professional-based e-Book for students in teaching and learning process of sepak takraw course. With the Flip PDF Professional-based e-Book, students could understand the material with varied presentations.

E-Books are books created in digital media containing material explanations and anyone can read and access them using a computer or cell phone (Cahya et al., 2022). Through e-Books, students can improve their understanding of the material, make them active and independent in learning (Muhammad et al., 2015). E-Book contains animations and videos that can help students understand the material (Martha et al., 2018).

Flip PDF Professional is a software used to make e-Books presented as flipbooks which used various media such as audio, video and flash (Kustijono & Watin, 2017). Flip PDF professional has the advantage that the videos can be inputted in pdf format (Hardiansyah & Sondang Sumbawati, 2016). Flip PDF Professional-based e-Book is an alternative media that is applied by lecturers and students. In addition, students are assisted while studying with the Flip PDF Professional Based E-Book which has a stimulating display (Yulia Aftiani et al., 2021). Using a Flip PDF Professional-based e-Book can make teaching materials more interesting because it can add explanations in the form of various kinds of images, videos, and animations.

Previous research on needs analysis regarding e-Books, namely Ningsih et al. (2022), concluded that Android-based E-Books are needed by SLB students and teachers throughout Klaten Regency, with the improvement of interests and activeness in 100% of the respondent. The positive impact of using e-Books in this research means that critical thinking skills can be improved due to digital media innovation (Susanto et al., 2022).

In previous research, the use of e-Books provides many benefits in understanding the material, though there was no Flip PDF Professional-based e-Book about learning sepak takraw for students. E-Book for learning sepak takraw was created for lecturers who want to develop application-based book. The e-book in this research can help students understand the sepak takraw material because the material in the application was based on the learning plan of the semester. The e-Book for the students contained material in form of pictures, animations, and videos of basic sepak takraw techniques.

In conclusion, based on the problems described, researcher was interested in analyzing the need of Flip PDF Professional-based e-Book for the course. The purpose of this research is to determine the need analysis regarding the utilization of Flip PDF Professional-based e-Book for sepak takraw learning course for Students.

METHOD

This study used a quantitative descriptive with survey method to determine the needs analysis of Flip PDF Professional-based e-Book for sepak takraw learning course. The respondents in this study were 23 students from third semester in Palembang class. To draw the need analysis of Flip PDF Professional-based e-Book utilization for sepak takraw learning course, the respondents filled out a questionnaire that can be

accessed at this [link](#). This research used data analysis techniques, namely the descriptive percentage analysis method (Maksum, 2018). In percentage descriptive analysis the data are managed by dividing the frequency by the total number of respondents times 100 percent with the following formula:

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

Information:

P: Percentage

F: Frequency

N: Amount

The questionnaire instruments used in this study are as follows:

Table 1. Needs Analysis Questionnaire Instrument

No	Questions	Information (Yes/No)
1	Are the learning objectives conveyed by the lecturer during the Sepak Takraw Learning Course?	
2	Does the textbook used for the Sepak Takraw Learning Course interest you?	
3	Has the textbook for Sepak Takraw Learning Course utilized Science and Technology?	
4	Is an electronic textbook (E-Book) based on Flip PDF Professional needed for Sepak Takraw Learning Course?	
5	Can an E-Book based on Flip PDF Professional for Sepak Takraw Learning Course make the presentation of material varied?	
6	Can an E-Book based on Flip PDF Professional for Sepak Takraw Learning Course help you understand the material better?	

RESULTS AND DISCUSSION

Learning of sepak takraw for students of the Physical and Health Education Study Program requires teaching materials. The development of teaching materials can take advantage of innovative technological developments, namely e-book teaching materials (Cahya et al., 2022). An important component in learning is teaching materials, this is because it can help students understand independently and competence can be measured (Hartati et al., 2020).

This research aims to determine the needs analysis for E-Book based textbooks, especially in Sepak Takraw Learning Course. Previously, students experienced obstacles in using printed textbooks provided. There is no electronic-based book that can be accessed anytime and anywhere. The results of the questionnaire regarding learning objectives presented by the lecturer during the sepak takraw learning lecture as one of the aspects, are presented as follows:



Figure. 1 The result of aspect of the textbooks used for the sepak takraw lectures

Based on the results, 100% of respondents (23 students of Semester III Palembang class) answered “Yes”. It can be concluded that the lecturer delivered the learning objectives during the takraw learning lecture.

The results of the questionnaire regarding interest on using textbooks for the sepak takraw lectures as one of the aspects, are presented as follows:



Figure. 2 The result of whether sepak takraw lecturing textbooks have utilized advanced Science and Technology

Based on the results from the questionnaire that was answered by 23 students in Semester III of Palembang class, 63.6% answered “Yes” and 36.4% answered “No”. Therefore, it can be concluded that sepak takraw textbooks do not utilize science and technology.

The results of the questionnaire regarding the aspect of whether electronic-based textbooks (E-Books) based on Flip PDF Professional are needed for Sepak takraw courses are presented as follows:



Figure. 3 The result of aspect of need of Sepak Takraw e-Book

Based on the results from the questionnaire answered by 23 students of Semester III from Palembang Class, 100% of them answered “Yes”. Therefore, it can be concluded that a Flip PDF Professional-based e-Book is needed for sepak takraw courses.

The results of the questionnaire regarding the aspect of whether Flip PDF Professional-based e-Book can make the presentation of material varied are as follows:





Fig 4. The aspect of whether Flip PDF Professional-based e-Book for learning sepak takraw can make the presentation of the materials varied

Based on the results from the questionnaire answered by 23 students of Semester III from Palembang class, 100% answered “Yes”. Therefore, it can be concluded that the Flip PDF Professional-based e-Book for Takraw Learning Course can make the presentation of material varied.

The results of the questionnaire regarding the aspect of whether Flip PDF Professional-based e-Book for learning sepak takraw can help the students understand the material are as follows:

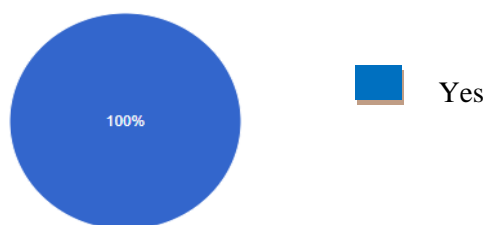


Figure 5. The aspect of whether the Flip PDF Professional-based e-Book for learning sepak takraw can help the students understand the material

Based on the results from the questionnaire answered by 23 students of Semester III from Palembang class, 100% answered “Yes”. Therefore, it can be concluded that the existence of a Flip PDF Professional-based e-Book for learning sepak takraw can help students understand the material.

Previous research by [Irmade & Jumanto \(2022\)](#) showed that the use of Flip PDF Professional e-Books could increase students' independent learning motivation. Apart from that, it is produced in the form of a flipbook based on Flip PDF Professional containing images, videos, sounds, explanations and animations ([Nurlatifah et al., 2021](#)). Flip PDF Professional is easy to use while reading, because there are the settings that the material can be returned previously.

The benefits of e-Books are well utilized, easy to understand and interesting, and contain well-organized content ([Mohd Azmi et al., 2023](#)). Interactive e-Books have a significant impact on students' spatial abilities. Other research results also showed that e-Books have rich content with visual and interactive elements so that student satisfaction with the teaching material is increased ([Yohannes, Chen, & Chang, 2023](#)). The advantages of Flip PDF Professional-based e-Book for sepak takraw learning for students are that the materials are presented in interesting layout. There are pictures about sepak takraw techniques, completed with questions about them, which can be accessed easily.

In the application, students who are studying sepak takraw are firstly given a link to access the e-Book. After clicking the link provided, students can automatically read the sepak takraw learning material with their respective Android-based mobile phones.

CONCLUSION

A needs analysis was carried out on the third semester students of the Physical and Health Education Study Program, Faculty of Teacher Training and Education, Sriwijaya University, it was found that a Flip PDF Professional-based e-Book for sepak takraw learning can be accessed anytime and anywhere and the material is presented more attractively. Therefore, there is a need for using Flip PDF Professional-based Sepak Takraw e-Book for students.

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