

Development of *E-Booklet* Media to Improve Students' Self-Regulated Learning

Sigit Dwi Sucipto¹, Rani Mega Putri², Silvia Ar³

¹ Sriwijaya University, Indonesia; sigitdwis@unsri.ac.id

² Sriwijaya University, Indonesia; rani@konselor.org

³ Sriwijaya University, Indonesia; silvi@unsri.ac.id

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ABSTRACT

The purpose of this research is to develop a valid and practical self-regulated learning e-booklet. This study uses the ADDIE development model which has 5 stages (Tegeh, 2014) namely Analysis, Design, Development, Implementation, and Evaluation. Based on the results of research on the development of self-regulated learning *E-Booklet* media, it can be concluded that self-regulated learning *E-Booklet* media is prepared using the methods of analysis, planning, development and implementation. Then, the self-regulated learning *E-Booklet* Media is feasible to use and has a fairly high score in the validation results of the material test and display. The self-regulated learning *E-Booklet* media is effective in increasing student self-regulated learning and can be used as a medium for delivering information in the realm of guidance and counseling.

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Corresponding Author:

Sucipto

Sriwijaya University, Indonesia; sigitdwis@unsri.ac.id

1. INTRODUCTION

The Covid-19 pandemic has hit the world for a year, including Indonesia, this has an impact on various aspects of life, one of which is education. So educational institutions require to carry out the process of distance learning activities including universities, one of which is at Sriwijaya University, one of the impacts is that students, learning must still have to run even though students and lecturers are at home, or what is often called Distance Learning (PJJ). Various initiatives were carried out to ensure learning activities continued even in the absence of face-to-face sessions Technology, more specifically the internet, smartphones, and laptops are now widely used to support distance learning.

Setyosari (2015) states that learning carried out through networks (online) has a lot of potential including the meaning of learning, ease of access, and improvement in learning outcomes. face to face online via the internet network, such as a signal that is not good/good, facilities such as inadequate mobile or laptop communication tools, many internet packages that have been used up, conditions at home that are very uncomfortable, and so on. are required to be able to regulate themselves in learning activities properly (self-regulated learning).

Self-regulated learning is also interpreted as a process carried out by students by setting goals for their learning then students try to monitor, regulate and control their own cognition, motivation and behavior to achieve the goals they have made (Pinteich (in Schunk, 2005).

Self-regulated learning is needed by students in learning activities so that students have the ability to regulate and direct themselves, adjust and control themselves, especially in dealing with difficult tasks. Students are asked to be able to regulate themselves in learning during the COVID-19 pandemic. well, able to control time so that the study schedule is regular, students know how to create a good and fun learning environment, students are disciplined in learning, students also know how to make a plan to achieve goals, are able to take advantage of existing facilities, and don't delay doing work. task (procrastination).

Online lectures are also able to foster student independence in learning such as finding information about course materials and assignments given to them (Firman and Rahman, 2020). delaying doing assignments given by lecturers, dividing time in doing homework with assignments from campus, difficult to make plans in achieving good learning goals, not utilizing existing facilities such as the internet, sophisticated cellphones, and so on. The results of Irma's research (2014) show as many as 41.70% of research subjects have low self-regulated learning.

E-Booklet media is a medium for conveying material or information in the form of a summary and given attractive images and also there is an inculcation of character in the electronic-based media that can be accessed via cellphones and laptops. learning media that can attract students to use it.

The use of E-Booklet media as a medium to improve self-regulated learning was chosen because along with the COVID-19 pandemic, meeting face-to-face was felt to be less efficient and took a long time and in the process of giving the material it took place and time, but if using E-booklet Booklets can be delivered efficiently in time, place, and energy because apart from using technology in line with the times, students can also understand the material in E-Booklets repeatedly because E-Booklets are very simple and interesting so that students can access E-Booklets. anywhere and anytime. From this background, researchers want to develop E-Booklets as a medium to improve self-regulated learning, apart from being a subject matter, the development of this E-Booklet can motivate students to improve self-regulated learning during distance learning held at Sriwijaya University in participating in education during a pandemic.

The formulation of the problem in this study is: "How is the development of a valid and practical self-regulated learning E-Booklet?". The purpose of this research is: "to develop a valid and practical E-Booklet".

2. METHODS

This research is designed in the form of Research and Development (R&D). According to Sanjaya (2013: 129). Research and Development (R&D) is the process of developing and validating educational products such as textbooks, educational films, educational applications, and so on. The development model used in this research is the ADDIE model. Suryani (2018: 125) states that the ADDIE model focuses on development for learning purposes, one of which is learning media by describing a systematic approach to instructional development so that the goal of developing E-Booklet media to improve student self-regulated learning can be achieved.

The research and development model adopted in developing E-Booklet media to Improve Student Self-Regulated Learning uses the ADDIE development model which has 5 stages (Tegeh, 2014) namely Analysis, Design, Development, Implementation (Implementation/execution), and Evaluation (Evaluation/feedback).

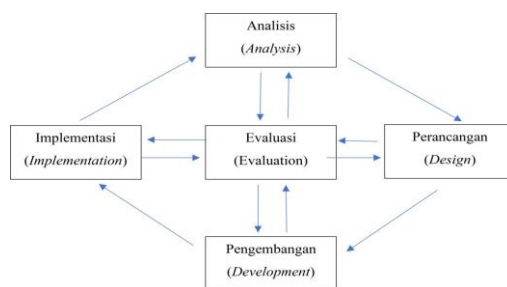


Figure 2. ADDIE Development Model

In this development research, data collection was carried out using a self-regulated learning scale instrument with a Likert scale, data collection in this study was carried out to identify the level of student self-regulated learning. Then the assessment and evaluation of the development of the E-Booklet is to use a validation sheet carried out by material experts, language experts, and media experts. After the validation test has been carried out, the developed media will be tested on the sample, namely students who have a low level of self-regulated learning so that the effectiveness of the E-Booklet that has been developed can be measured.

3. FINDINGS AND DISCUSSION

Research result

The research and development procedure carried out by the research team is an adaptation of the research and development steps of Dick and Carry (in Mulyatiningsih, 2012) namely Analysis, Design, Development, Implementation, and Evaluations which are described as follows:

a. Analysis

The first stage in this research is to conduct some needs analysis on Guidance and Counseling Students of Sriwijaya University in the need for interactive and effective information media during learning activities.

1) Field Study

Based on the results of observations that have been made by the research team on Guidance and Counseling students at Sriwijaya University. Some students in the learning process stated that they needed creative and easy-to-understand media so that the information conveyed could be easily understood by them. So it can be concluded that media development is something that must be developed and applied in providing information to students.

2) Literature Study

Based on research from Setyosari (2015) during the application of online learning there are many new innovations in creating ease of accessing information. In addition, the research conducted by Aurora and Efendi (2019) found that there is an influence in the use of learning media in online learning. Therefore, it can be concluded that the use of media as a new innovation in learning specifically in online learning is very much needed.

b. Design

The planning stage in the research development stage is carried out by formulating materials and making drafts in the form of materials that are prepared in advance before being developed into an E-Booklet media.

c. Development

1. Making E-Booklet Media

The making of this E-Booklet media is done using the Adobe Photoshop application. The following is the order of the E-Booklet Self regulated learning material:

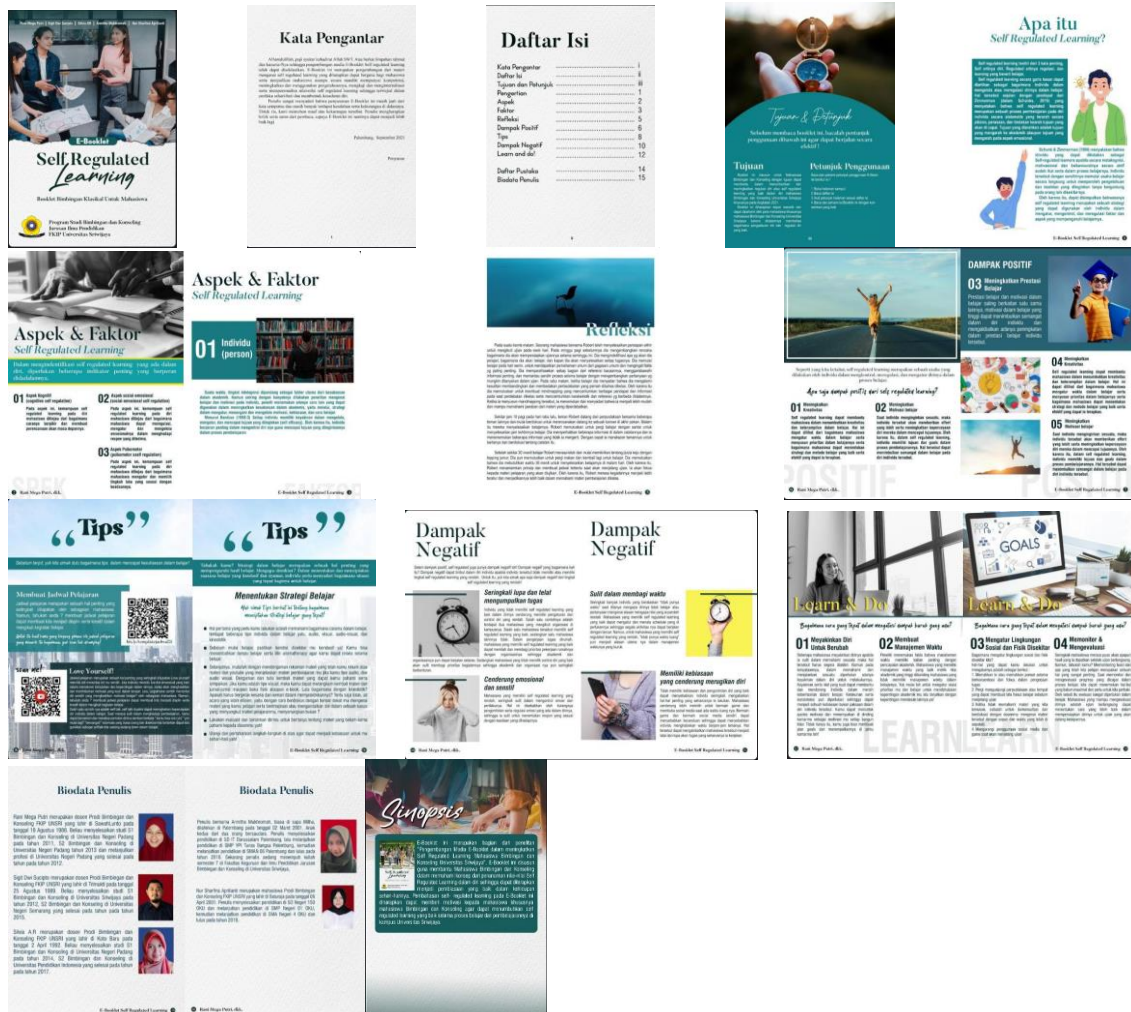


Figure 2. E-booklet Content Display

Assessment of material experts, media experts, and language experts

Table 1. Material Validation Results

No	Indicator	Score	Category
1.	Suitability of the material for the purpose of the service	5	Very good
2.	The suitability of the material to the needs student	4	Well
3.	Clarity of material/information	5	Very good
4.	The E-Booklet contains information that can add user insight	5	Very good
5.	The truth of the substance of the service material	5	Very good

Table 2. Language Validation Results

No	Indicator	Score	Category
1.	Conformity to language rules Indonesia	4	Well
2.	Effective use of language and efficient	5	Very good
3.	Ease of understanding the message and information	4	Well
4.	Correct sentence structure	3	Pretty good
5.	Suitability for development intellectual students	4	Well
6.	Spelling accuracy	4	Well

Table 3. Media Validation Results

No	Indicator	Score	Category
1.	The attractiveness of the media preview	5	Very good
2.	Media design order	4	Well
3.	Media design orders	4	Well
4.	Ease of reading text or writing	5	Very good
5.	Color selection	5	Very good
6.	Match between material and image	4	Well

The results of the validation that have been carried out on material experts, media experts, and linguists show very good results. Therefore, it can be concluded that the media used is feasible to use. However, the validators include suggestions, namely the appearance and layout that must be more consistent.

d. Implementation

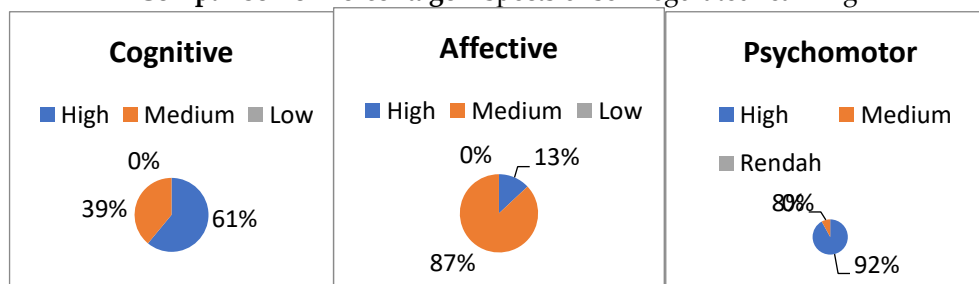
a. Large group trial

The trial at this stage is carried out to measure how the percentage of each of the indicators has been set by the researcher using a psychological scale that has been designed with the previous team. The results of this stage are as follows:

Table 4. Percentage of self regulated learning scores

High	89%
Medium	11%
Low	0%

Comparison of Percentage Aspects of self regulated learning



b. Field trial

The application of this E-Booklet media is carried out through research that has been carried out by the research team in their thesis entitled Effectiveness of Using E-Booklet Media which shows the results that the use of self-regulated learning E-Booklet media is effective in helping Guidance and Counseling students of Sriwijaya University batch 2021 in improving its self-regulated learning. This can be seen from the increase in the results of the pretest and posttest in the provision of self-regulated learning E-Booklet media that have been jointly designed by the research team.

4. CONCLUSION

Based on the results of the research on the development of the self-regulated learning E-Booklet media, it can be concluded that the self-regulated learning E-Booklet media was prepared using the methods of analysis, planning, development and implementation. Then, the self-regulated learning E-Booklet Media is feasible to use and has a fairly high score in the validation results of the material test and display. The self-regulated learning E-Booklet media is effective in increasing student self-regulated learning and can be used as a medium for delivering information in the realm of guidance and counseling. Suggestions for further researchers to be able to add a wider subject in order to get bigger results. Thank you to LPPPM Sriwijaya University for helping in the form of material so that this research can run and in accordance with what is the goal.

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