



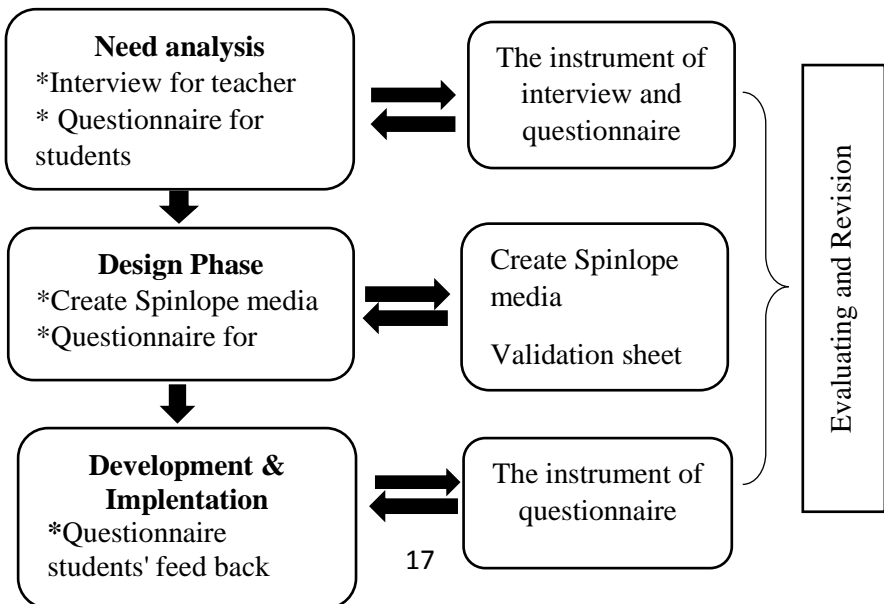
CHAPTER III

RESEARCH METHOD AND DEVELOPMENT





3.1 Research Design

This research used the Research and Development (R&D) method. It adopted by Hannafin and Peck according Isman, Çağlar, Dabaj (2005) the learning design model consists of three phases need assessment, design phase, and development and implementation. In this model, all phases involve a process of evaluation and revision. This study produced media products because it can produce new derivative products that can be used in learning.

Table 1. The research and development (adopted from Hannafin and Peck's Theory)



Description:

1.  = Go to next phase
2.  = Evaluation to advisor
3.  = Approved by the supervisor
4.  = Consultation to a supervisor

3.2 Research Procedure

3.2.1 Need Analysis

In this Design and Develop, the first phase of Hannafin and Peck's model was needs analysis. A need analysis phase was needed to identify the needs in designing learning teaching media. To do a needs analysis, I used interviews (See Appendix 1) with a teacher in SMA Patriot Peterongan and gave the questionnaire (See Appendix 2) to students in SMA Patriot Peterongan to know how the media was modified. After the need analysis from the teacher interview, I confirms with the teachers about the data obtained, and then, the teacher evaluates and revises the data (if any).

3.2.2 Design Phase

The second phase of Hannafin and Peck's model was the design phase. The product was modified in this phase. The modifying media was in the form of the SPINLOPE (Spinning Envelope).



After modifying the SPINLOPE, for formative evaluation, I consulted it to the expert of educational media to give feedback and advice. The expert filled out the instrument a validation sheet, (See Appendix 5) related to media quality. Expert evaluation and suggestions are used to revise the media.

3.2.3 Develop and Implement

The third phase of Hannafin and Peck's model was the develop and implement phase. After the modified media is revised, the develop and implement stages are carried out by testing the media in groups. This study conducted the implement at 27th May 2023. Assessment is carried out by giving questionnaires to students and observing the application of modified media in groups of students.

3.3 Research Participation

There were three participants in this current research:

1. The English teacher at SMA Patriot Peterongan consist of sixteen students. The reason for choosing an English teacher is because the teacher knows the instructional needs of the reading class
2. The student of eleventh grade at SMA Patriot Peterongan. The reason for taking the eleventh grade



is because the learning strategy used was still lacking, especially the strategy for teaching reading.

3.4 Research Instrument

3.4.1 Interview

This interview on 7th March 2023 was used to fulfill the need analysis phase (see Appendix 1). This interview was addressed to the teacher. The questions are focused on extracting information about the instructional needs. And also it determined the content of teaching-learning media is modified.

3.4.2 Questionnaire

This questionnaire on 7th March 2023 also was used to complete in the need analysis phase (see Appendix 2). This questionnaire was addressed to the students' eleventh graders (16 students). The questions focus on modified media information. And the questionnaire focused on media develop and students feed back to spinlope media (see Appendix 6)

3.5 Data and Source of Data

In the need analysis phase, the data were statements from the teacher's interview and the students' questionnaire related to the instructional needs analysis and the topic of reading. The data was used to modify the



media of teaching-learning. The source of data was the English teacher and the students' SMA Patriot Mancar.

3.6 Steps of Collecting Data

1. Need Analysis
 - a. Listing an interview's question to be asked to the English teacher
 - b. Consulting the draft of an interview's question to the advisor
If there was no revision, it could be continued to ask the English teacher.
 - c. I interviewed the English teacher to find out the teacher's needs (see Appendix 1).
 - d. Listing the questions to make the students' questionnaire.
 - e. Consulting the draft of a questionnaire to the advisor.
If there was no revision, it could be continued to give the questionnaire for students.
 - f. I gave a questionnaire to the eleventh graders (see Appendix 2).
2. Design Phase



- a. Designing the medium after getting the result English teacher statement and students' questionnaire.
 - b. To validate the medium by giving a questionnaire to the expert in teaching aids
 - c. Getting the validation of the spinlope medium by giving the designed media.
 - d. Identifying evaluation and expert advice
3. Developing and Implementation Phase
- a. Listing the feed back questionnaire of student analyse Spinlope media
 - b. Consulting the result of a feed back questionnaire to the advisor.
If there is no revision the questionnaire could be given to the students.
 - c. Implementing the medium to the eleventh graders and also to them to access the teaching medium implemented by using a checklist questionnaire.

3.7 Steps of Analyzing Data

After the data is collected, the study was be analyzed.



1. Need analysis

A. Teacher's interview

Transcribing the result of interviewing the English teacher (See Appendix 3).

B. Students' questionnaire

a. Tabulating the results of the students' questionnaire (see Appendix 4).

b. adjusting between the teacher's statement and the student's answer in designing the media.

2. Design phase.

a. Designing the spinlope media by considering the previous result

b. validating the SPINLOPE media to the expert of the teaching media (see appendix 5)

c. Revising the spinlope media (if there is some)

d. Getting the approval from the expert

3. Develop and implement phase

A. Collecting the results of students' feed back,

B. Concluding the result of students' feed back in a recapitulation table (See Appendix 4). If its result got more than 50% of students giving YES answers in, the Spinlope media would be developed into a good way for sustainability goals.



To make it easier to identify data collection and data analysis, it can be seen in the following table.

Table 2. The schedule of collecting data and analyzing data

	Time	Steps of Collecting Data	Time	Steps of Analyzing Data
Need analysis	March, 7 th 2023	Interviewing an English Teacher	March, 9 th 2023	Analyze the results of the teacher's statement. In the form of a transcribing
	March, 7 th 2023	Giving questionnaires for Students	March, 9 th 2023	a. Analyze the results of the student's questionnaires. In the form of a tabulating
			March, 11 th 2023	b. adjusting between the teacher's statement and the student's answer in



				designing the media.
Design Phase	May, 1 th 2023	Validating media to experts		a. Designing the spinlope media by considering the previous result
			May, 13 th 2023	b. validating the SPINLOPE media to the expert of the teaching media
			May, 14 th 2023	c. Revising the spinlope media
			May, 17 th 2023	d. Getting the approval from the expert
Implementation Phase	March, 28 th 2023	a. Listing the feed back questionnaire of student analyse Spinlope media	May, 29 th 2023	a. Collecting the results of students' feed back



	March, 30 th 2023	b.Consulting the result of a feed back questionnaire to the advisor.	May, 29 th 2023	b.Concluding the result of students' feed back in a recapitulation table
	May, 27 th 2023	c. Implementing the medium to the eleventh graders and also to them to access the teaching medium implemented by using a checklist questionnaire		

