

CHAPTER III

RESEARCH METHOD

A. Research Design

Research used by researcher uses the Mixed Method Research method. Mixed research methods are approaches to investigation that involve collecting quantitative and qualitative data, integrating two forms of data, and using different designs that might involve philosophical assumptions and theoretical framework. The central assumption of this form of inquiry is that the combination of qualitative and quantitative approaches provides a more complete understanding of the research problem than the two approaches themselves.

The purpose of the mixed research is to combine the results of a questionnaire that is filled out by all students and the results of interviews that will be answered by several students and teachers who use the Quipper School application. In this study the researcher took the results of the highest percentage of students' answers at the most (Creswell, 2014).

The reason about researcher chose this type of research was because participants who used and answered the questionnaire were more than 100 people and the results of this questionnaire the researcher would calculate and

make it a percentage. In this case the researcher will group students' answers for how much they like and support this application.

B. Research Setting

The location of this research is 3 School in Kuala Kapuas, Central Kalimantan. In SMAN 1 Kuala Kapuas, SMAN 2 Kuala Kapuas and Kuala Kapuas.

C. Participants / Subject

The participants of this research are students of SMAN 1, SMAN 2 and SMPN 2 and the teachers in Kabupaten Kapuas, Kalimantan Tengah who using the Quipper School application. Arikunto (2006) state that determination of sampling, if it is less than 100 it is better to take all of it until the research is population research. If a large number of subject can be taken between 10-15% or 20-50%. To determine the sample of the population used calculation and reference tables developed by experts. Minimum sample size is 15 from each group and for survey research the minimum sample size is 100. A sample size of more than 30 and less than 500 is appropriate for most quantitative studies.

Table 3.1 Participant using Quipper School Application

No.	School	Students	Teacher
1.	SMAN I Kuala Kapuas	15 students	1 teachers
2.	SMAN II Kuala Kapuas	65 students	1 teachers
4.	SMPN II Kuala Kapuas	45 students	2 teachers
	Total	125 students	4 teachers

D. Data

Researcher divide the two sources of income data received the first data is done directly and the second data obtained from several sources.

1. Data

a. Primary

The researcher conducts research by obtaining direct data from the subject. Researcher take the subject of students who used Quipper application in SMAN 1, SMAN 2 and SMPN 2 at Kabupaten Kapuas, Kalimantan Tengah.

b. Secondary

The researcher derives some sources from previous research or theories of some experts and internet media that refers to the article / journals that are relevant to this research.

E. Technique of Data Collection

In data collection the researcher used 3 data collection, there are:

1. Observation

The researcher come the school, saw the teachers' activity, asked questions, and make sure the teachers use Quipper School application. Then the researcher observes and records important things like making a list of observations and also the teachers' explanation when teaching using the Quipper School application and observing students' use the application. This will answer question number 1 ie look at application usage.

2. Questionnaire

Researcher distributed questionnaires to all students who used the Quipper School application. This technique is used to collect data about students using the Quipper School application. The subjects of this observation were students from 3 schools namely SMAN 1 Kuala Kapuas, SMAN 2 Kuala Kapuas and SMPN 2 Kuala Kapuas. This questionnaire aims to see how students respond to the use of this application.

3. Interview

In this technique, the author communicates and interviews with several students at SMAN 1, SMAN 2 and SMPN 2 students who use the Quipper School Application. Interviews are conversations conducted by researcher who will ask a number of questions to the subject, researcher conduct interviews with 5 students in each school that are directed by one sequence to get information. After researcher distribute questionnaires and get data after giving them answer the questionnaire. This method is not only for students but also for teachers. Researchers conduct with teachers who teach using this application. And this interview not only answers perception questions but also answers how they use this application.

4. Documentary

The researcher will also collecting data in the form documentations. Where documentations in this data collection will be in the form type of exercise by students, photographs of students activities in learning English when students use the application.

F. Data Analysis

After researcher obtain data from questionnaires and interviews, the data obtained will be analyzed by checking the clarity and completeness. Then after

being considered complete and clear, the researcher identifies from the answers in each question with 4 types namely Strongly Agree, Agree, Strongly Disagree, and Disagree. At this stage the researcher will organize and present clear data in a form that is easily understood by the reader. After the researcher got the votes from students both from the questionnaire and from the results of the interview, the researcher counted the votes manually with many students 125 students from 3 schools with a questionnaire consisting of 14 questions. For the interview the researcher will interview 5 students and 1 teacher's representative from each school and the questions asked there are 5 questions.

Researcher will count manually, researcher count how many votes who voted Strongly Agree, Agree, Strongly Disagree and Disagree. Then after the researcher get the results of these calculations the total amount of researcher after getting the results, researcher enter the data obtained into the diagram. For the results of the interview after getting the whole data, researcher will combine and conclude what researcher get from the answers of students and teachers. This research is expected to be able to give and describe students using the Quipper School application. (Creswell, 2014) In book of research methodology came up with data analysis spiral that is applicable to most qualitative methods. There are several steps for this analysis. These steps are:

- Convergent parallel mixture method is a form of mixed method design in which the researcher bringing together or combining quantitative and qualitative data to provide in-depth analysis of research problems. In this design, researcher usually collect both forms of data early at the same time and then integrate information in the interpretation of overall results. Why is that, the amount of data obtained is included in the type of quantitative data and research techniques in the form of questionnaires and data calculation leads to the percentage. Then the qualitative data is from the description and interview techniques, observation, and documentation.

According to the opinion above, the researcher understands this method the researcher collects data as a whole first, then the data obtained will be analyzed and selected then divide and classify qualitative and quantitative data. Qualitative data that can be explained and translated into paragraphs and arranged in detail and clearly so that readers can understand the contents of this research. Then the results of quantitative data will be grouped and arranged use the calculation and percentage data. In this study, researchers will combine both types of research. In this research will dominate the qualitative method then the quantitative method as additional and complementary. Researchers will collect data simultaneously at the same time. Then after getting the results the researcher will arrange according to the answers to the research question.

The first researcher uses observation and interviews, namely qualitative research, the second uses questionnaires, namely quantitative research, and the third uses interviews, namely qualitative research. In the second income the researchers will calculate using the percentage of answers. It can be concluded that this research is in accordance with the theory explained above.