CHAPTER III

METHOD OF RESEARCH

3.1 Research Design

This study will be centered on educational research and development (R&D). Borg and Gall will propose this model. The study's findings will be utilized to build or design new items in certain operations. Then, they have been rigorously field-tested, assessed, and refined until they fulfill the required standards of efficacy, quality, or a comparable level. In practice, this form of research relies heavily on assessment. The refining procedure will be evaluated again until the optimal form of the product is determined. According to Borg and Gall (2003), this strategy has significant promise for enhancing education since it entails a direct relationship between systematic assessment programs and program creation. This research will be undertaken in education to design/develop relevant materials that can be applied successfully to fulfill the demands of students.

3.2 The Subject of the Research

The subjects of this study were students of class X SMAN 21 MEDAN. The location of the school is on Jl. Keramat Indah/Selambo Ujung, Medan Tenggara, Kec. Medan Denai.. While the class used by the researcher was grade 10 which consistedof30student

3.3 Instrument of Collecting Data

questionnaire was used to collect data. The questionnaire is used to collect information from respondents. It is a low-cost, quick, and effective method of collecting huge volumes of data even when the researcher is not there to collect the replies in person. Then, using a questionnaire, it is explained as follows: The questionnaire contains a helpful tool for collecting data from a sample of respondents, which may be naturally assembled for this purpose (Wilkinson and Birmingham, 2013:10).   The responders were SMA NEGERI 21 MEDAN students.

The questionnaire includes a variety of options for students' requirements, weaknesses, and desires. Giving a questionnaire will assist researchers in developing appropriate recount text material for SMA NEGERI 21 MEDAN grade 10 pupils. The researcher gathered information from the questionnaire regarding the students' English needs, the themes of the texts they needed, the accessible materials, the students' ability to understand the text, and the students' expectations of the texts used in the teaching and learning process.

3.4 Technique of Data Analysis

The data were obtained from questionnaires and interview analysis. This data is needed to design media and to assess students' needs in studying recount texts, especially in writing. The data were analyzed by showing the conclusion of the interview and questionnaires data from 30 students and 2 validators that would change into percentages of data, the formula liked as follow:

$$Percentages \% = \frac{Total\ Score\ (\,n\,)}{Maximum\ Score\ (\,N\,)}\ x\ 100\ \%$$

3.5 The Procedures of Media Development

The researcher identified the important characteristics, such as goal needs and learning needs, of SMAN 21 MEDAN eighth-grade pupils. Data on students' target needs and learning requirements will be obtained through questionnaires sent to students and the results of an interview with the instructor. The data will be utilized to plan appropriate writing material for the kids' requirements.

The development of media will be carried out in many phases, which are as follows: (1) obtaining Information and Data, the researcher conducted primary observation, obtaining information and data from students and teachers at SMAN 21 MEDAN through questionnaires and interviews. (2) Data analysis, examining the students' demands and current media based on the results of the student questionnaire and interviews with the instructor; (3) Media Design, creating writing media based on the needs of the students and the most effective media to employ; (4) Expert Validation, analyzing and validating new media to experts. The English instructor at SMAN 21 MEDAN and the English lecturer at the State University of Medan are the experts in this case. To guarantee that the writing medium is worthy of being used in class; (5) Revising Media, the writing media will be updated by experts to get the best results based on the experts' criticism and suggestions; and (6) Final Product, after receiving expert revision, it will be referred to as suggested writing media, which became the Final Product. If the media was claimed to be an effective medium, it became the medium that would
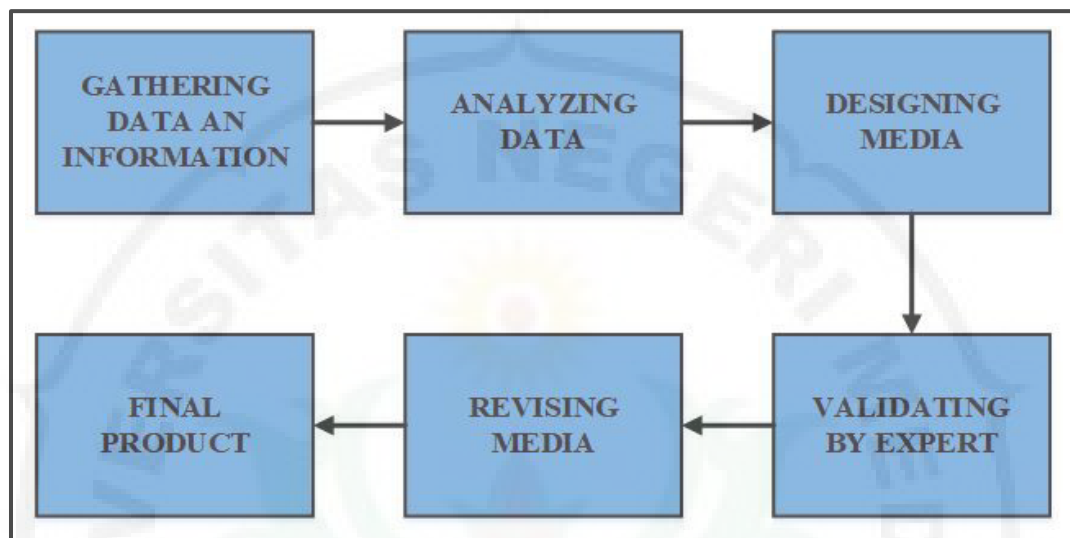
be utilized in class.Here is the chart of developing the media:

Figure 3.1. chart of developing the media