

## CHAPTER III

### RESEARCH METHOD

This chapter explains the research design, data source, subject and object of the research, research instrument, data collecting techniques, data analysis techniques, and validity of the data.

#### A. Research Design

In this study, the researcher used a qualitative research design. According to Aspers and Corte (2019), qualitative research design is an inquiry method that can be used to observe and understand a phenomenon. Creswell (2014: 32) explains that qualitative research design is an approach that aims to understand the meaning given by groups or individuals to a problem. In addition, Bogdan & Biklen as quoted by Hidayati (2019: 137) defines that qualitative research designs are in the form of descriptions whose data are collected in the form of words or pictures and not numbers. Data from qualitative research designs could be in the form of excerpts from documents, field notes, interviews, excerpts from videotapes, audiotapes, and etc. This research used a qualitative research design with a descriptive method or commonly referred to as a qualitative descriptive research design. The use of qualitative descriptive research design in this study was to describe the purpose of this study. Also the use of this research design because the data analysis was presented descriptively.

## **B. Data Source**

In this research, researcher categorized data sources into two, namely main data and secondary data sources, as follows:

### 1. Main data

In this research, the main data were obtained from the writing test results of students class XII Accounting II when constructing cause and effect essay by using WPS Office media. The number of students are 25 students.

### 2. Secondary data

In this research, secondary data was used to support primary data. Secondary data obtained from the results of questionnaire, interview, observation, and documentation.

## **C. Subject and Object of the Research**

### 1. Research Subject

The subjects that was used in this study were students of class XII Accounting II at SMKN Ngadirojo in the academic year of 2021/2022 with a total of 25 students.

### 2. Research Object

The main object of this research was the grammatical errors made by students in constructing cause and effect essay by using digital media, namely WPS Office.

## **D. Instrument of the Research**

There were five instruments used in this research, including:

## 1. Writing Test Sheet

In the opinion of Brown F.G. quoted by Winarno (2011: 97) states that the test is a systematic process to observe and investigate the behavior of an individual. This test aimed to measure the ability, knowledge, and skills of students for a particular purpose. Researcher made the writing test sheet as the instrument in this study. The test was given by the researcher was a writing test where the researcher asked students to make a cause and effect essay by first providing instructions on the structure of the cause and effect essay writing. This was intended so that students did not experience difficulties in writing essays. Then students were asked to write a cause and effect essay according to the structure with a minimum requirement of 200 words. The time was carried out for two meetings. The first meeting of the researcher gave an explanation of the cause and effect essay material, then the second meeting gave a test whose results were used as research material. In this test, the researcher used software media, namely WPS Office as a media for writing cause and effect essay and the results are in the form of softfiles sent to researchers via WhatsApp.

## 2. Questionnaire Sheet

In this research, a questionnaire sheet was used to reveal student responses toward using of WPS Office media for constructing cause and

effect essay. The questionnaire used is a closed questionnaire. Closed questionnaire is a questionnaire with a list of questions that have been completed with answer choices. Questionnaires were distributed to respondents in the form of a Google Form.

### 3. Interview Sheet

In this study, interview sheet were used to reveal students' opinions as a supporter of the questionnaire. The interview sheet consists of several in-depth questions toward using of WPS Office media in constructing cause and effect essay.

### 4. Observation Guideline

Observation guideline used to analyze the naturalistic nature that occurs in the school where the study is located. Observation is the process of observing to obtain certain information. The information obtained must be objective, real, and accountable. This observation was carried out by observing directly in the field toward using of WPS Office media in constructing cause and effect essays for class XII Accounting II SMKN Ngadirojo students.

### 5. Mobile Phone

The mobile phone is used as a tool to collected documents in the form of photographs taken during the research.

## **E. Data Collecting Techniques**

Data collection techniques in this study include the following steps:

1. Based on the students' writing test sheet, the researcher collected data by giving an essay writing test about cause and effect using WPS Office media of at least 200 words and processing time of 120 minutes. Previously, the researcher gave instructions on the structure of cause and effect essay writing so that students did not experience difficulties in writing essays. After the students finished writing, the researcher gave the opportunity to re-examine the essays they had made, whether they were sure that the essay did not contain errors. Then the essays were collected via WhatsApp. After the data was collected, the researcher then focused on grammatical errors and analyzed them by grouping the types of grammatical errors made by students based on Dulay's theory, namely Surface Strategy Taxonomy.
2. Based on the questionnaire sheet, the researchers collected data to determine student responses toward using of WPS Office media in constructing cause and effect essays. Questionnaires were given to students in the form of a Google Form. Questionnaires were given to students of class XII Accounting II at SMKN Ngadirojo after students completed the writing test.
3. Based on the interviews sheet, the researcher collected data to support the questionnaire to find out students' response toward using of WPS Office media in constructing cause and effect essays. Researchers conducted interviews with students by giving some in-depth questions about the using of WPS Office media in constructing cause and effect

essays. In this case, the researcher recorded students' answers using a smartphone.

4. Based on the observation guidelines, the researchers collected data by conducting direct observations in the field on the using of WPS Office media in constructing cause and effect essays for students of class XII Accounting II at SMKN Ngadirojo. Researchers observe things that are found in the classroom and outside the classroom. The results of the observations are written in the observation sheet.
5. Based on the mobile phone, the researcher collected data by documentation in the form of photos taken during the research.

#### **F. Data Analysis Technique**

In this study, the researcher analyzed students grammatical errors and student response toward using of WPS Office media for constructing cause and effect essay.

1. Step for analyzing student grammatical errors adapted by Ellis in Fara (2020) :
  - a. Collection of samples of learner language

At this stage, the researcher had provided data for error analysis.

Then the researcher determined the number of students who were the samples in the study. Next, the researcher focused on the grammatical errors made by the students in constructing cause and effect essay.

- b. Identification of errors



At this stage, the researcher tried to find and then identified errors from the data that has been collected. In this case, the researcher identified the grammatical errors made by the students by underlining the errors.

c. Classification of errors

At this stage, the researcher classified the grammatical errors made by students using Dulay's theory namely Surface Strategy Taxonomy which included four types of errors, including: omission, addition, misformation, and misordering.

d. Explanation and evaluating of errors

At this stage, after classifying the types of errors based on Dulay's theory namely the Surface Strategy Taxonomy. Then, the researcher explained and evaluate the errors, then calculated the errors and made it a percentage in each category. Based on Sudijono (2018: 43) the formula is as follows:

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

P : Percentage

F : Frequency of occurrence

N : Number of cases

2. Technique for analyzing student responses toward using of WPS Office media in constructing cause and effect essay:

a. Questionnaire

The results of the collected student questionnaire answers were analyzed to reveal student responses toward using of WPS Office media in constructing cause and effect essays. The results of the questionnaire are described in the form of paragraphs.

b. Interview

The results of interviews with students toward using of WPS Office media in constructing cause and effect essay were recorded using smartphone. The results of the interviews were written and used to support the results of the questionnaire.

c. Observation

The results of the observations were recorded in the observation sheet and then written down as a support for the results of the questionnaires and interviews.

**G. Credibility and Dependability of the Data**

According to Sugiyono (2013:270) the credibility of the data from qualitative research is carried out by expanding observations, increasing persistence in research, triangulation, discussion, negative case analysis, and member checks. In this study, researchers used data triangulation. Data triangulation was carried out by involving expert judgment, namely someone who is an expert in written English grammar and already has a master's degree. Expert judgment in this study is the lecturer. The data that has been obtained is validated by expert judgment before being analyzed by the researcher. Expert judgment here validates the data on the results of the



writing test and the results of student response questionnaires. This is done to measure that the data is credible.

