CHAPTER IV

FINDINGS AND DISCUSSION

This chapter presents the analysis and the interpretation of the data acquired through the interview. The chapter involves findings and discussion. Those findings and discussion provides the data which is intended to answer the research question about the students' consideration in selecting data collection instrument for their proposal.

As previously stated in chapter III, this study involved 80 students as the respondents. Those 80 students were from 3 different classes of writing proposal (writing IV). They were A class with 14 students, B class with 22 students and C class with 44 students. Then, they were classified into four different categories to present the data. It intends to ease in mentioning the data agreed with the respondent. The categories come from the students' answer of question number four in interview guide which had classified by the writer for some reason. It was the question number four since the question directly asked about the students' consideration in selecting data collection instrument when they wrote proposal in writing IV class. The detail reason of the classification was explained in the data analysis.

Using 5 questions in the interview guide, the writer gained the data from those 80 students on May, 6th 2015 up to June, 5th 2015. After collecting and

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analyzing the data, the study found that there were a lot of types of students' answer about their consideration to select research instrument or data collection instrument in writing proposal.

A. Findings

Based on the data that the researcher conducted using instrument interview, she found some students' considerations in selecting appropriate data collection instrument. The considerations of the students were seen from their answer in the question number four in the interview guide.
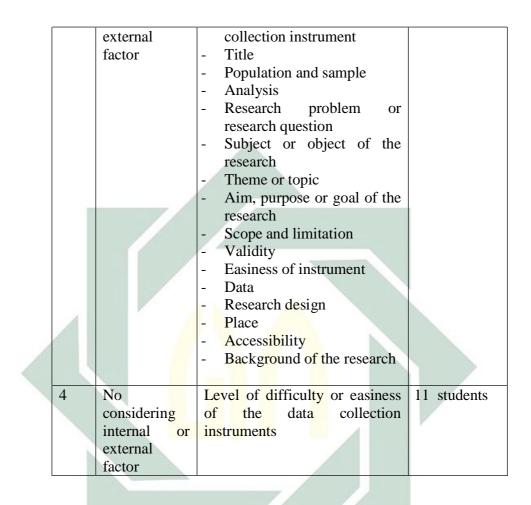
1. Data presentation

In general, the result of the interview showed that there were 4 big categories of students' consideration in selecting data collection instrument for their proposal. The classification was based on the range of data which has many various types. The researcher then classified it into those four categories by grouping which consideration that was included in internal and external factor of considering things before selecting data collection instrument. Based on the internal and external consideration factor in selecting data collection instrument, the researcher grouped those students' consideration into four categories. The first category was considering internal factor, the second was considering external factor, the third was

considering both internal and external factor and the fourth was no considering internal and external factor.

For the first category that was considering internal factor, the factors that become students' consideration were about problem or case, research question, topic or theme, focus of the research, aim of the research, scope and limitation, key terms, variable, data, method or approach, design, and data collection technique. The second category that was students' external factor consideration in selecting data collection instrument were about the subject or object of the research, place and time of the research, population, title, the implementation of the research instrument, theory, suitability, availability and the limitation of the data collection instrument, validity and reliability including strong and weakness of the instrument itself. Then, the students' consideration in the third category that was considering both external and internal factor of selecting data collection instrument was combination of two previous categories. It was like approach or method, implementation of data collection instrument, title, population and sample, analysis, research problem or research question, subject or object of the research, theme or topic, aim or purpose or goal of the research, scope and limitation, validity, easiness of instrument, data, research design, place, accessibility and background of the research. The last category was no considering internal and external factor. Therefore, the students' consideration was only the level of difficulty or easiness of the data

collection instrument itself. To clearly see the types of students' consideration in selecting data collection instrument for their proposal, the researcher provides the table based on the four big categories as below.

Table 4.1. Table of four big categories of students' consideration in selecting data collection instrument

No	Categories	Consideration	The number of students
1	Considering Internal factor	- Problem or case - Research question - Topic or theme - Focus of the research - Aim of the research - Scope and limitation - Key terms and Variable - Data - Method or approach - Research design - Data collection technique	29 students
2	Considering external factor	- Subject or object of the research - Place and time - Population - Title - The implementation of the data collection instrument - Theory - Suitability, availability and the limitation of the data collection instrument - Validity and reliability - Strong and weakness of the instrument	18 students
3	Considering internal and	- Approach or method - Implementation of data	22 students

| | external factor | collection instrument
- Title
- Population and sample
- Analysis
- Research problem or research question
- Subject or object of the research
- Theme or topic
- Aim, purpose or goal of the research
- Scope and limitation
- Validity
- Easiness of instrument
- Data
- Research design
- Place
- Accessibility
- Background of the research | |
| 4 | No considering internal or external factor | Level of difficulty or easiness of the data collection instruments | 11 students |

2. Data analysis

After the researcher presented the data as above, then the researcher showed the data analysis among those categories. Each category has its own more types. The total of the whole types were 44 types. This large type was because of the difference answer among the students. As what has been mentioned above, the students' answers were about research question, data, title, reliability, validity, analysis, population, sample, key

terms, scope, limitation, design, method, theory, variable, time, place, topic or theme of the research, subject or object of the research, focus of the research, aim of the research, the implementation of the data collection instrument including the level of easiness of the data collection instrument and the strength or weakness of the instrument itself. But from 80 students, there were only several students who had similar answer for certain types. It means that there were some students who mention research question and data as their consideration before selecting data collection instrument. The others said place and subject of the research, and the other mentioned method and the easiness of data collection instrument, or some of them mentioned title only and so on. Therefore, it had large number of types. Those many kinds of students' consideration in selecting data collection instrument types were explained one by one based on the four big categories.

a. **Category 1 (Considering Internal Factors)**

The first category was considering internal factor. It means that the students who included in this category more paid attention to the matters that have direct relation with the data collection instrument. It has straight connection with the research question or the problem, research design, research method, data, and data collection technique. Based on the students' answer, there are other things that can be classified into this internal factor such as topic/ theme/ case, focus of the research, aim of the research, scope and limitation, key terms and

variable. These things were included in the internal factor since it has close relation to the data collection instrument. The close relation here means those matters can influence the researcher to decide which data collection instrument that should be selected for a research. These internal factors have strong role for a researcher to think and consider about their data collection instrument to be.

There were 29 students who included in this category. Those 29 students here were divided into 14 groups since there were 14 types of students' answer about their consideration in selecting data collection instrument regarding to internal factor consideration of selecting data collection instrument. The table below shows the 14 groups of students' internal factor consideration in selecting data collection instrument.

Table 4.2. Table of 14 types students' internal factor consideration

No	Students' consideration type	Number of students
1	Method and problem	4 students
2	Problem/ research question	6 students
3	Method/ approach (qualitative and quantitative)	3 students
4	Focus of the research and Method (qualitative and quantitative)	1 student
5	Topic	2 students
6	Method and data	1 student
7	data	2 students
8	Data collection technique	2 students
9	Theme, scope and limitation	1 student
10	Variable	1 student
11	Data and research question	3 students

12	Key terms and method or design	1 student
13	Aim of research, question, case, and research methodology	1 student
14	Design and methods	1 student

From the table above, it can be seen that the 29 students who includes in this category had various types of answer. Not all of the students here had same answer and consideration to select the data collection instrument based on the internal factor of selecting data collection instrument. Some students only mentioned data collection technique as their consideration to select data collection instrument. The others said that their consideration in selecting data collection instrument were method or approach (whether it is qualitative or quantitative method), even more there was a student who only considered topic as his consideration in selecting data collection instrument, and so on.

Besides showing the consideration of the students in this first category, the table also provides the number of each group. The sum of the students in this first category was 29 students. If it is converted into percentages, there were 36, 25% of the students who included in this category. It was derived from the calculation below:

$$\text{Result} = \frac{\begin{array}{c}\text{the number of students who are}\\\text{included in each category}\end{array}}{\textit{The total number of respondents}} \times 100\,\% = \ldots\,\%$$

$$= \frac{29}{80} \text{ x } 100\,\% = 36{,}25\%$$

The details of those 14 groups in the considering internal factors were explained below.

1) Type 1 (student A1, A2, A3, A4)

In this first type, there were four students who mentioned method and problem of the research as their consideration to select data collection instrument. As the explanation before, research method and problem were included in the internal factor consideration since it has close relation to the data collection instrument. It means that these two things can be a thought to choose which data collection instrument that proper to the research because through the research method, the researcher can look at the data collection instrument provides in each method whether it is qualitative or quantitative method. Then, the problem itself tends to the focus of the research that becoming base of the research question in the next. By having research question, the researcher will have a view about what information he need to answer that question, and of course to get the information, the researcher will think about proper instrument for his research. Therefore, research

question and method here can be included in internal factor consideration of selecting data collection instrument.

2) Type 2 (student A5, A6, A7, A8, A9, A10)

The further type of the students' consideration was only problem/ research question. In this type, there were six students who said that their consideration was problem/ research question. Problem or research question is the early stage in a research. From the problem that is formulated in research question, the researcher absolutely thinks of the solution of the problem. The solution is usually from the data that have to gain using certain instrument, so research question or problem has close relation with the data collection instrument.

3) Type 3 (student A11, A12, A13)

The next type is method/ approach (qualitative and quantitative). It means that the students who included in this type thought that method or some of them called it approach was the main consideration in selecting data collection instrument. In this type, there were three students who said so. They admit that qualitative or quantitative was the main factor to be able to decide which data collection instrument that will be used. By having method of their research, they can choose the data collection instrument provided along with the research design.

4) Type 4 (student A14)

This type is about Method/ approach (qualitative and quantitative) and focus of the research. There was only one student who included in this type. She thought the method and the focus of the research as the consideration in selecting data collection instrument. Focus of the research means what the researcher want to discuss in a research. It is also can be said as the narrow of the topic. Focus of the research and the method of the research were two basic components which were very crucial for this student since both of them have close relation to the data collection instrument like what has been explained above.

5) Type 5 (student A15 & A16)

Topic became the next type in this students' consideration in selecting data collection instrument. There were two students who included in this type. For them, topic was the most crucial factor to select the data collection instrument. It was like the main component that can be a foundation to decide which data collection instrument that will be used in the research. Topic can be plot of the research in the beginning since it gives big role of what the research about, it tends to the problem toward the research question, and the research question has very close relation to the data collection instrument as the previous explanation.

6) Type 6 (student A17)

Then, the students' consideration was method and data. In this type, there was a student who considered these two matters as the factor to select data collection instrument. For the method, the relation with the data collection instrument has been explained before. Then for the data, it is important to be considered since the data determine the data collection instrument. From the data needed, the researcher can think what tools that proper and effective to gather that data. Therefore, data has close relation to the data collection instrument.

7) Type 7 (student A18 & A19)

The further type was only about the data. In this type, there were two students who only mentioned data as their consideration in selecting data collection instrument for their proposal. These students thought that data was the only way to think which data collection instrument that is suitable to the research. It is because data show which tool or instrument that is able to use in gathering the data itself.

8) Type 8 (student A20 & A21)

The way how to collect the data which is same as the term data collection techniques was the next consideration for the students in this type. There were two students who included in this

type. Simply they said that the data collection instrument was based on its technique to collect the data in a research since it is data collection technique's tool. Therefore, data collection instrument and data collection technique are so closed, and data collection techniques become the internal factor consideration of selecting data collection instrument.

9) Type 9 (student A22)

The next type was about theme, scope and limitation. There was a student who included in this type. Theme, scope and limitation became her concern before selecting data collection instrument since these three points have strong relation each other. The scope and limitation will be clarified the theme in a research. It means the theme in a research will be more specific thus the focus of the research will be clear. The focus of the research will bring to the research question and it is included in the internal factor of consideration in selecting data collection instrument.

10) Type 10 (student A23)

For the next types was about variable. It means that variable was considered as the only factor to select the data collection instrument by this student. There was only a student who said so. Variable in a research tend to close to the key terms. It means that from the variable, the researcher can mention some key

terms which also as focus of the research. The variable itself usually comes from the research. Therefore, the variable and data collection instrument is in close relation.

11) Type 11 (student A24, A25, A26)

The further types were about data and research question. In this type, there were three students who mentioned those data and research question as their consideration in selecting data collection question. They thought that data and the research question were the main factors that should be considered before selecting data collection instrument. It was because data and data collection instrument have strong relation. Data needed was showed from the research question itself. Therefore, these research question and data were the internal factor of consideration in selecting data collection instrument.

12) Type 12 (student A27)

The further type was about key terms and method or design. There was a student who included in this type. Key terms and the method or design became his consideration in selecting data collection instrument since key terms refer to the focus of the research and method is how to find the result of the focus of the research. As what has been explained about variable above, key terms come from the variables, and the variables are from the focus

of the research which is showed in the research question. That is why, these two considerations includes in the internal factor of consideration in selecting data collection instrument.

13) Type 13 (student A28)

The further type of students' consideration in selecting data collection instrument was aim of research, question, case, and research methodology. There was only a student in this type. He mentoioned those matters as the factor to select the data collection instrument was because he thought that those four components are related each other. The case was a point toward the research question. From the case, the research question can be found and so did the aim of the research. Then the research method is the way to find the answer of the question. Those matters here are related each other, so does the data collection instrument. The data collection instrument is also based on those matters. They directly can be thought to select which research question that is proper to the case, aim of the research, and the research methodology.

14) Type 14 (student A29)

This type of students' consideration in selecting data collection instruemnt was about design and method of the research. Design and the method of the research became this only one student's judgment to select the data collection instrument since

method or design is closed to the data collection technique and the instrument of course. From the research method or approach (qualitative and quantitative), the research designs will be able to see, then the data collection techniques also can be known. As the result, the data collection instrument absolutely follows the data collection technique. Therefore, those considerations included in internal factors.

b. **Category 2 (Considering External Factor)**

The second category was considering external factor. It means that the students who included in this category preferred to think the matters that did not have direct relation with the data collection instrument. It is like subject or object of the research, place, time, population, title, validity and reliability. Based on the students' answer, there were other things that can be classified into this external factor such as the theory, implementation of data collection instrument in the field, suitability, availability and limitation of the research instrument, strong and weakness of the data collection instrument, also the level of easiness of the data collection instrument itself. These points were included in the external factor since it was not included in the internal factor. It means those matters did not give much influence for a researcher to decide which data collection instrument that should be

selected for his research. These external factors tend to be weak role for a researcher to think and consider about their data collection instrument to be.

There were 18 students who included in this category. Those 18 students here were divided into 11 groups since there were 11 types of students' answer about their consideration in selecting data collection instrument regarding external factor consideration of selecting data collection instrument. The table below shows the 11 groups of students' external factor consideration in selecting data collection instrument.

Table 4.3. Table of 11 types students' consideration of second category

No	Students' consideration type	Number of students
1	Subject and place	1 student
2	time, place, population, and subject	1 student
3	Object of the research	1 student
4	Title, easiness of implementation, and population	1 student
5	Theory	1 student
6	Suitability, availability and the limitation of the data collection instrument	1 student
7	title	5 students
8	validity and reliability	4 students
9	time	1 student
10	Strong and weakness of the instrument	1 student
11	time efficiency and the easiness	1 student

From the table above can be seen that the 18 students who includes in this category had various types of answer. As the previous type, not all of the students here had same answer and consideration to select the data collection instrument based on the external factor of selecting data collection instrument. Some students only mentioned title as the only consideration to select data collection instrument. The other students said that before selecting the data collection instrument, they considered about time, place, population, and subject, and the others mentioned validity and reliability, and so on.

Besides showing the consideration of the students in the second category, the table also provides the number of each group. The total of the students in this second category is 18 students. If it is converted into percentages, there are 22,5% of the students who included in this category. It is derived from the calculation below:

$$\text{Result} = \frac{\text{the number of students who are included in each category}}{\text{The total number of respondents}} \times 100\% = \ldots\%$$

$$= \frac{18}{80} \times 100\% = 22,5\%$$

The details of those 11 groups in the considering external factors were explained below.

1) Type 1 (student B1)

　　　　In this first type, there was only one student who said that her consideration before selecting data collection instrument were subject and place of the research. She considered these subject and place of the research to select the data collection instrument since she more thought about the scope of data sources. It shows that this student tend to think more about the implementation of gaining the data from the subject of the research. Therefore, this type is includes in considering external factor of selecting data collection instrument.

2) Type 2 (student B2)

　　　　For the next type was considering time, place, population, and subject. It means that in selecting data collection instrument, the student who included in this type mentioned to consider the time, place, population, and subject of the research before he selected the data collection instrument. There was only a student fell into this type. Those four matters in this type were included in the external factor consideration in selecting the data collection instrument because those matters did not have close relationship with the data collection instrument.

3) Type 3 (student B3)

       The next type was only about the object of the research. In this type, there was only a student who considered the object of the research as the consideration before selecting data collection instrument. Object of the research here means something that becomes the target of the research. It is like the subject of research but it is more general, so it is included in the external factor.

4) Type 4 (student B4)

       There was a student who included in this type. This type contains title, easiness of implementation and population as the considerations before selecting data collection instrument. Those matters were admitted as the factors to select data collection instrument for this student since he thought of the practice. It means which data collection instrument that is easy enough to implement and proper to the title and population. Therefore, those matters included in external factor which do not have direct relation to the data collection instrument.

5) Type 5 (student B5)

       The further type about students' consideration in selecting data collection instrument in the second category was about theory. There was a student in this type. Theory here became one and only students' consideration to select the data collection instrument.

Theory itself became his consideration here since theory gives a reference about his research. Nevertheless, the reference did not have closed relation with the data collection instrument. It tends to correlate with the materials or content of the research instead, not for the data collection instrument. Therefore, theory was admitted as external factor of selecting data collection instrument consideration.

6) Type 6 (student B6)

This type involves Suitability, availability and the limitation of the data collection instrument. It means that whether the data collection instrument is suitable or not, available or not and limited or not. There was only one student who mentioned those suitability, availability and the limitation of the data collection instrument as her consideration in selecting data collection instrument. It seems that the consideration of selecting data collection instrument using those matters were external factor.

7) Type 7 (student B7. B8. B9, B10, B11)

The next type was title. There were five students who considered title as their factor to select data collection instrument for their proposal. They said that title was the prime thing which should be considered in selecting data collection instrument. Meanwhile, title is derived from the research question actually. It

means that title was not the main element in a research which has close relation to the data collection instrument. The title can be formulated in the end since the research is started from research question not the title instead.

8) Type 8 (student B12, B13, B14, B15)

This type involves validity and reliability as the factor of selecting data collection instrument. In this type, there were four students who mentioned validity and reliability. Their reason why they mentioned validity and reliability was because they want to their instrument accurate. Therefore, they only thought how valid and reliable their data collection instrument will be. Meanwhile the validity and reliability of data collection instrument could be tested when the data collection instrument itself has been made. That is why, validity and reliability were included in the external factor consideration of selecting data collection instrument.

9) Type 9 (student B16)

For the next type was about duration or time. In this type, there was a student who only consider the time as the factor to select data collection instrument for her proposal. She said that time was important before the researchers want to select data collection instrument because how long it will take the time will influence to the research also. It is clearly showed that this is included in

external factor of consideration in selecting data collection instrument because it did have closed relation with the data collection instrument.

10) Type 10 (student B17)

The next type of students' consideration in selecting data collection instrument was strong and weakness of the data collection instrument. In this type, there was only one student who said this matter as the factor to select the data collection instrument. For her, these strong and weakness of the data collection instrument will influence to the data collection instrument selection. Meanwhile, the strong and weakness of data collection instrument will be known if it has been applied. It is because strong and weakness of instrument here tends to similar with the validity and reliability of the data collection instrument, and it was included in external factor consideration of selecting data collection instrument.

11) Type 11 (student B18)

For this type, time efficiency and the easiness of the instrument became the students' consideration in selecting data collection instrument. There was only one student who included in this type. She thought that time efficiency and the easiness of the instrument were important to think before selecting data collection instrument since it tends to the implementation of the data

collection instrument itself. From this reason, it was showed that the time efficiency and easiness of the instrument was included in the external factor consideration of selecting data collection instrument as previous explanation.

c. **Category 3 (Considering Both Internal and External Factors)**

The third category was considering internal and external factor. It means that the students who included in this category thought and consider both internal and external factor. Before selecting the data collection instrument, they paid attention to the matters that have and did not have direct relation with the data collection instrument. Those internal and external considerations of the students in this category were approach or method, the implementation of data collection instrument, title, population and sample, analysis, research problem or research question, subject, accessibility, theme/ topic, aim or the goal of the research, scope and limitation, validity, easiness of instrument, data, research design, place, and the background of the research.

There were 22 students who included in this category. Those 22 students here were divided into 18 groups since there were 18 types of students' answer about their consideration in selecting data collection instrument regarding both internal and external factor consideration of selecting data collection instrument. The table below shows the 18

groups of students' internal and external factor consideration in selecting data collection instrument

Table 4.4. Table of 18 types students' consideration of third category

No	Students' consideration type	Number of students
1	The approach (qualitative and quantitative) and the way to implement the data collection instrument	3 students
2	Title, method, population, and analysis	1 student
3	Population and method	2 students
4	research problem and subject	1 student
5	title, theme, purpose of the study	1 student
6	title, research question, scope and limitation	1 student
7	the goal and the subject of the research	1 student
8	validity, the easiness of the instrument, population, and the goal of the research	1 student
9	accessibility, topic and population	1 student
10	Data, research design, the place, the sample and the research question	1 student
11	Title, theme, and research question	1 student
12	problem, population and sample	1 student
13	Title and the aims of the research	1 student
14	Object of the research and data	1 student
15	title, approach (qualitative and quantitative), easiness of instrument	2 students
16	data, population, and method	1 student
17	Data and the level of easiness of instrument	1 student
18	problem and background	1 student

From the table above can be seen that the 22 students who includes in this category have various types of answer. As the previous type, not all of the students here had same answer and consideration to select the data collection instrument based on the internal and external factor of selecting data collection instrument. Some students said that their considerations were the approach (qualitative and quantitative) and the way to implement the data collection instrument. The others mentioned data, research design, the place, the sample and the research question as their consideration to select the data collection instrument, and so on.

Besides showing the consideration of the students in the second category, the table also provides the number of each group. The amount of the students in this third category is 22 students. If it is converted into percentages, there are 27,5% of the students who included in this category. It is derived from the calculation below:

$$\text{Result} = \frac{\text{the number of students who are included in each category}}{\text{The total number of respondents}} \times 100\% = \dots\%$$

$$= \frac{22}{80} \times 100\% = 27,5\%$$

The details of those 18 groups in the considering internal and external factors were explained below.

1) Type 1 (student C1, C2, C3)

The first type of students' consideration in the third category was approach (qualitative and quantitative) and the way to implement the data collection instrument. In this type, there were three students who thought that the approach or method (quantitative and qualitative) and the implementation of the data collection instrument itself were the important thing that should be considered before selecting data collection instrument. They thought so since they more thought about the concept of finding the information in a research. Method itself included in the internal factor of consideration in selecting data collection instrument, and the implementation of the data collection instrument was the external factor of consideration in selecting data collection instrument, so this type was called considering both internal and external factor of consideration in selecting data collection instrument.

2) Type 2 (student C4)

The next students' considerations in selecting data collection instrument in this category were title, method, population, and analysis. In this type, there was one student who considered these four items as the judgment to select data collection instrument for her/ his proposal. Method as the internal factor of selecting data

collection instrument consideration was gathered with three external factors; title, population and analysis. Analysis here actually the continuation of the data collection instrument after the data are collected, so that the analysis admitted as external factor of consideration in selecting data collection instrument. Since this type contains two kinds of factor, it is included in the category considering internal and external factor selecting data collection instrument.

3) Type 3 (student C5 & C6)

There were two students who included in this type. In this type, the students consider population and method as their consideration in selecting data collection instrument. As the explanation before, population was included in the external factor of selecting data collection instrument, and the method was the internal factor of selecting data collection instrument consideration. Therefore, this type was called considering both internal and external factor of consideration in selecting data collection instrument.

4) Type 4 (student C7)

For the next, the students' consideration to select data collection instrument in this category were research problem and the subject of the research. In this type, there was only one student

who said so. She thought that research problem and the subject of the research were important to select data collection instrument because it correlates each other. In the other hand, subject in a data collection instrument selection was included in the external factor, and the method was in internal factor. Therefore, this type was in this third category.

5) Type 5 (student C8)

The further type was about title, theme and purpose of the study. There was a student who considered these three factors before selecting data collection instrument. For her, title, theme, and purpose of the study was has closed relation each other. Because those three factors were from internal and external factor of consideration in selecting data collection instrument, this type was included in the third category.

6) Type 6 (student C9)

This type was about title, research question, scope and limitation. In this type, there was only a student who mentioned those matters as her consideration in selecting data collection instrument. This type consists of internal factor of consideration in selecting data collection instrument such research question, scope and limitation, but this type also contains the title as the consideration external factor of data collection instrument selection.

Therefore, it became the member of considering both internal and external factor of consideration in selecting data collection instrument category.

7) Type 7 (student C10)

This type was about the goal and the subject of the research. In this type, there was only one student who said so. She mentioned the goal and the subject of the research as the factor to select the data collection instrument because she thought that the goal of the research is the base to decide the data needed and the data collection instrument indeed. Then, the subject was for determining to whom that data collection instrument must be applied. However, the goal of the research was internal factor consideration in selecting data collection instrument, and the subject was in external factor of consideration in selecting data collection instrument. Therefore, it was included in the third category.

8) Type 8 (student C11)

The further types involve validity, the easiness of the instrument, population, and the goal of the research as the factors to select the data collection instrument. There was only one student who included in this type. The reason why this student mentioned those factors as her consideration to select data collection instrument was because she thought that those factors were related

each other. However, her consideration in this type was combination between internal and external factor of consideration in selecting data collection instrument. That is why, this type was included in this third category.

9) Type 9 (student C12)

This type includes accessibility, topic and population as the consideration before selecting data collection instrument. There was only a student who mentioned those accessibility, topic and population in this type. From the consideration mentioned in this type, it can be seen that this type was included in the considering internal and external factor of selecting data collection instrument category.

10) Type 10 (student C13)

Data, research deign, place, sample and research question became the students' consideration in this type. There was a student who included in this type. He mentioned those data, research design, place, sample and research question to have complex consideration in selecting data collection instrument although actually there were still other considerations to select data collection instrument instead. Data, research design and research question mentioned in this type were internal factor consideration to select data collection instrument. In the opposite, sample and place were external factor

consideration in selecting data collection instrument. Therefore, this type was included in this third category considering both of internal and external factor of selecting data collection instrument.

11) Type 11 (student C14)

This type of students' consideration in selecting data collection instrument was title, theme and research question. There was a student who included in this type. He mentioned those title, theme and research question since those three matters here have very closed relation each other. Theme can make reference to the research question, and the title will be able to adopt from the title. However, the title was external factor but the research question and theme were the internal factor consideration to select data collection instrument. Hence, this type was included in the considering both internal and external factor of selecting data collection instrument.

12) Type 12 (student C15)

This type was about problem, population and sample. It means that those three things became the students' consideration in selecting data collection instrument. There was a student who included in this type. As the previous explanation, problem itself was the internal factor to select the data collection instrument, then population and sample were the external factor supporting data collection instrument selection in a research. That is why, this type

was included in considering both of internal and external factor of selecting data collection instrument.

13) Type 13 (student C16)

The further type of students' consideration in selecting data collection instrument was title and the aims of the research. In this type, there was only a student who said so. She mentioned those title and the aims of the research as the consideration in selecting data collection instrument because she admitted that aims of the research correlate to the title. However those were from internal and external factor of consideration to select the data collection instrument. Therefore, it was included in this third type of data collection instrument selecting consideration.

14) Type 14 (student C17)

This next type of students' consideration in selecting data collection instrument was object of the research and data. There was a student who included in this type. Object of the research and the data became the factor to select the data collection instrument for her since the object of the research can be a source of data, so that both of data and object of the research were correlate one another. Object of the research itself was external factor to select the data collection instrument, and the data was internal factor to select data collection instrument. Hence, this type was included in the

considering both of internal and external factor of selecting data collection instrument.

15) Type 15 (student C18 & C19)

The next type of the students' consideration to select data collection instrument in this category was title, approach/ method (quantitative and qualitative) and the easiness of the instrument. There were two students who included in this type. Since they mentioned those three matters as the factor to select data collection instrument, it means that they consider both of external and internal factor of selecting data collection instrument.

16) Type 16 (student C20)

This type involves data, population, and method to be students' consideration in selecting data collection instrument. In this type, there was a student who said so. It has been explained that data and method were included in the internal factor of selecting data collection instrument and the population was external factor of it. That is why, this type was included in the third category that is considering internal and external factor of selecting data collection instrument.

17) Type 17

The next type of students' consideration in selecting data collection instrument was data and the level of easiness of

instrument. There was only a student who included in this type. From those considerations, it can be seen that this type was included in considering internal and external factor of selecting data collection instrument. It was because data was internal factor of data collection instrument, and the level of easiness was the external factor to be considered in selecting data collection instrument.

18) Type 18

The last type of students' consideration of selecting data collection instrument in this category was problem and background of the research. There was only a student who included in this type. She thought that problem and the background of the research was related each other. The problem was in the background actually. In the other word, background itself contains problem, so they were related one another. However, background of the research was included in the external factor of selecting data collection instrument since in the background explore not only about the problem, but also the theory and same previous research. Therefore, this type was included in this category, considering internal and external factor of selecting data collection instrument.

d. Category 4 (No Considering Internal and External Factors)

The last category was no considering internal and external factor. It means that the students who included in this category did not paid attention to the matters that have or did not have direct relation with the data collection instrument. In this category, the researcher found that some students did not mention anything to be considered in selecting data collection instrument. Based on their answer, there was a statement that includes this category. The students' answer in this category was "the level of difficulties or easiness of the data collection instrument".

There were 11 students who included in this category. Those 11 students here were not divided into any group since there was only single type of students' answer about their consideration in selecting data collection instrument regarding no considering internal and external factor of selecting data collection instrument. Simply, it is shown in the table below.

Table 4.5. Table of 1 type students' consideration of fourth category

No	Students' consideration type	Number of students
1	level of the difficulties/ easiness of the research instrument	11 students

From the table above, it can be seen that the 11 students who includes in this category only had one type of answer. Unlike the previous types, all of the students here had same answer which tend to no consideration to select the data collection instrument, whether based on the internal or external factor of selecting data collection instrument. They only emphasized of how difficult or how easy the data collection instruments are.

Besides showing the consideration of the students in the second category, the table also provides the number of each group. The sum of the students in this third category is 11 students. If it is converted into percentages, there are 13,75% of the students who included in this category. It is derived from the calculation below:

$$\text{Result} = \frac{\text{the number of students who are included in each category}}{\text{The total number of respondents}} \times 100\,\% = \ldots\%$$

$$= \frac{11}{80} \times 100\,\% = 13,75\%$$

The detail of this type in the no considering internal and external factors was explained below.

1) Type 1 (student D1)

The one and only type of consideration in selecting data collection instrument was level of the difficulties/ easiness. Here, there were eleven students who said that they only consider the

level of easiness or difficulties the data collection instrument is. They more prefer to select and use the easiest data collection instrument for their proposal. In the other hand, they said that this consideration is the simple one because they did not need to think more about some components of the research such research method, research question, data collection technique etc. They also did not too pay attention to the external factor such place, time, population and so on. That is why, the level of difficulties or easiness of data collection instrument here was included in the last category.

3. **Finding**

Based on the data presentation and data analysis above, the researcher found that there were four categories of students' consideration in selecting data collection instrument. Each category has its own consideration items. The detail result of this study was presented below.

a. **Considering internal factor**

As explained before, considering internal factor means the student thought some things that were classified in internal factor of consideration in selecting data collection instrument since those internal factors correlate directly to the data collection instrument. The correlation or relationship concerns to the main of the research itself. The sum of the students in this first category was 29 students, or if it is

converted into percentages, there were 36, 25% of the students who included in this category.

In this considering internal factor, their considerations were:

1) Problem/ case

2) Research question

3) Topic/ theme

4) Focus of the research

5) Aims of the research

6) Scope and limitation

7) key terms and variable

8) Data

9) Method/ approach (quantitative and qualitative)

10) Research design

11) Data collection technique

b. **Considering external factor**

The previous explanation has defined about this considering external factor of students' consideration in selecting data collection instrument. It is some things that did not have direct relation with the data collection instrument. In the other words, these external factors of consideration in selecting data collection instrument were only the additional consideration out of the main research components. The

number of the students in this second category was 18 students, or if it is converted into percentages, there are 22,5% of the students who included in this category.

In this considering external factor, their considerations were:

1) Subject or object of the research

2) Place and time

3) Population

4) Title

5) The implementation of the data collection instrument

6) Theory

7) Suitability, availability and the limitation of the data collection instrument

8) Validity and reliability

9) Strong and weakness of the instrument

c. **Considering both internal and external factors**

This third category was the combination between the first category that was considering internal factor and the second category that was considering external factor. This category involved the main component and additional consideration to select the proper data collection instrument. The total of the students in this third category was

22 students, or if it is converted into percentages, there are 27, 5% of the students who included in this category.

In this considering both internal and external factor of selecting data collection instrument, their considerations were:

1) Approach or method

2) Implementation of data collection instrument

3) Title

4) Population and sample

5) Analysis

6) Research problem or research question

7) Subject or object of the research

8) Theme or topic

9) Aim, purpose or goal of the research

10) Scope and limitation

11) Validity

12) Easiness of instrument

13) Data

14) Research design

15) Place

16) Accessibility

17) Background of the research

d. No considering internal and external factor

This last category was the opposite of the third category. In this category, there was no component or something that became the consideration in selecting data collection instrument except its difficulty. There were 11 students who involve in this category or if it is converted into percentages, there were 13, 75% of the students who included in this category. The only students' thought in this category was:

1) Level of difficulty or easiness of the data collection instrument.

B. Discussion

According to the finding, the researcher presented the discussion. In this research, the researcher focused on what the students' considerations in selecting data collection instrument. The finding shows that the students' considerations were very various. It had many kinds of component to consider before they want to select data collection instrument. Those all students' consideration above can be divided into two types if it is looked from proper procedure which has been explained previously. Based on the proper procedure provided in chapter two, the students' consideration above can be said as the students' consideration which agreed with the proper procedure and the students' consideration which did not agree with the proper procedure.

Firstly, the students' consideration in selecting data collection instrument which agreed with the proper procedure was presented in the table

together with the frequency or the number of students who consider it (See appendix 7). The table showed that the main consideration selected by the students was method or approach. From the table also, it was known that fund and trained staff as the considerations provided in the proper procedure were not be selected. Secondly, the students' consideration in selecting data collection instrument which did not agree with the proper procedure was also presented in the table (see appendix 8). These considerations are from the students' answer through the interview guideline and those considerations did not provided in the proper procedure. In this table, level of difficulties or easiness of the data collection instrument was the consideration that was selected most.

The result above means that in selecting data collection instrument, not all of the students followed the proper procedure as the consideration to select data collection instrument. They also were not too detail in thinking and paying attention to some considerations before selecting data collection instrument. It can be said so because the students' consideration in selecting data collection instrument was only about two or three points. The researcher could say that because of comparing the students' consideration number with the list of consideration provided in the proper procedure. The students' attention to consider some points before selecting data collection instrument was not too much. Many students only considered one or two point before they selected data collection instrument. Moreover, some of them had no consideration instead. The

table below showed the calculation of the students' consideration agreed with the proper procedure.

Table 4.6. Table of students' consideration calculation agreed with the proper procedure

No	Number of consideration	Number of students
1	One consideration	33 students
2	Two considerations	15 students
3	Three considerations	3 students
4	Four considerations	-
5	Five considerations	1 students
6	No considerations	28 students

In the table above, the carefulness of the students in selecting data collection instrument by considering some points was shown. The majority of the students only considered one consideration before they selected the data collection instrument with the calculation 33 students. Then, the students with no consideration were 28 students. It was the second grade in the table. On the contrary, there was only one student who considered five points before selecting data collection instrument. This case could be the answer why some of the students selected inappropriate data collection instrument in their proposal as what the researcher explained in the background of this research. In the research background of this study, the researcher also said that the previous students in

writing proposal class confused in how to select data collection instrument even more in how to design the research method. Related to this case, the students in this study also felt difficult in selecting appropriate data collection instrument. Through their answer in the second question of the interview guide, most of them got difficulties in selecting appropriate data collection instrument (see appendix 3). Their difficulties were because of matching the research instrument with the research elements, applying the data collection instrument in the next and the lack of students' knowledge about data collection instrument (see appendix 4). All of these also could be the causes why they were not too detail in considering some points before selecting data collection instrument toward selecting inappropriate data collection instrument in their proposal writing.

To avoid this case happened in the next, the awareness to consider those proper procedures in selecting data collection instrument must be increased. The list of many considerations in selecting data collection instrument also should be more paid attention. As the result, they will be more detail and careful before selecting data collection instrument. Therefore, the teachers should emphasize the need to select proper data collection instrument to the students. The students also should learn and follow the proper way to select data collection instrument. By following proper procedures as the consideration in selecting data collection instrument, the students' can anticipate the inappropriate data collection instrument selection in their proposal.