

CHAPTER II

LITERATURE REVIEW

A. Grammar

1. The Definition of Grammar Skill

Ability comes from the word capable which means power in doing something, while ability means skill and strength. Within the scope of language, a person's ability to use good language can be seen from the language system he uses, including the composition of sentences, phrases and meanings of words in grammar. One of the difficult subjects for students is English, because they do it with improper grammar and their knowledge is very limited in learning foreign languages. students' attention is not interested in English subjects because they do not know the meaning of each word.

Grammar is a collection of meaning structures and patterns guided by pragmatic constraints. In another definition according to grammar according to Hartanto (2003: 9), grammar in English consists of eight parts which are commonly referred to as eight parts of speech, namely: nouns, pronouns, adjectives, verbs, adverbs, prepositions. Conjunction, Interjection. Grammar is usually considered as one of the language

components besides vocabulary and sound system that must be mastered by students. Knowing grammar means understanding what the text means correctly.

This is one of the language components that must be mastered by students. because they are expected to write good grammatical sentences to help them communicate by expressing their ideas. According to Azar (2006), Basic English Grammar is an early-level ESL/EFL skills development text where grammar functions as an important thing for developing students' abilities in speaking, writing, listening, and reading. because it uses a grammar-based approach that is integrated with communicative and interactive methodologies. Starting from understandin and meaning, students engage in meaningful communication about real actions, real objects, and their own real life in the classroom context.

Teaching English using the DuoLingo application to improve students' grammar skills with a focus on Simple Present Tense can involve the following steps and activities:

1. Introduction and Context

- Introduce the concept of Simple Present Tense by providing a brief explanation of its use in stating general facts, habits and general truths.
- Provide example sentences in Simple Present Tense to provide initial understanding to students.

2. DuoLingo App Introduction:

- Introduce the DuoLingo app to students, explain the purpose of using it, and why it can be an effective tool for strengthening grammar.
- Ensure that students have access to the application and understand how to use it.

3. Teaching Via DuoLingo Modules

- Guide students to choose an English learning module on DuoLingo that focuses on Simple Present Tense.
- Ensure students complete exercises related to forming positive, negative and interrogative sentences using the Simple Present Tense.

4. Concept Discussion and Clarification:

- Arrange discussion sessions to discuss questions or concepts that may arise while students use the application.
- Provide additional explanations and clarification of concepts that may make students confused.

5. Group or Individual Workout

- Provide additional exercises that students can do both in groups and individually.
- Encourage students to create their own sentences using Simple Present Tense based on certain topics.

6. Rating and Feedback:

- Use the evaluation function in DuoLingo or design a simple test to evaluate students' understanding of the Simple Present Tense.
- Provide constructive feedback to students to help them correct mistakes and understand concepts better.

7. Project or Creative Assignments:

- Provide project or creative assignments that involve the use of Simple Present Tense, such as making a short presentation or writing a short story.

8. Reflection

- Conduct joint reflection sessions with students to evaluate the experience of using DuoLingo and understand to what extent they have gained an understanding of Simple Present Tense.

It is important to create an environment that supports and motivates students in using the DuoLingo application, as well as integrating grammar teaching with everyday life contexts to improve students' understanding.

From the explanation above, the writer concludes that grammar plays an important role in language, which makes language more meaningful. It is difficult for students to master a language without knowing grammar. Grammar is very important in the creation of a language. because without grammar learning a foreign language is impossible.

High school is the level of senior secondary education in formal education in Indonesia which is taken after graduating from junior high school, where English is still one of the compulsory subjects at this level. Students must understand the skills and components of the English language taught in English classes to master the structure of the language. Grammar is an important aspect of English that students must to be mastered for the language.

At one of SMAN 9, Bengkulu City, there are still many class XI students who experience problems with their grammatical structure. Researchers may believe that the challenges faced by students in terms of grammatical structure at SMAN 9 Kota Bengkulu reflect more general problems among students in the region. Therefore, this research can provide useful insights for curriculum development or teaching strategies at the local level. When teachers ask them to make sentences in English, they don't know how to formulate sentences and write them correctly. Their grammatical structure abilities are still limited, making it difficult to understand the meaning of the structure of a text. Finally, they were unable to complete their short story writing assignment because the grammar of the sentences was not perfect. So, it can be assumed that

the aspect that students find difficult is grammatical structure.

Teachers must be able to choose and use a variety of approaches to build student grammar. Teachers must use various relevant and effective media to arouse students' enthusiasm in learning good and correct grammar. The selection of teaching and learning media is very necessary by considering the material presented, learning objectives, available time and number of students, the character of students and learning materials, as well as issues related to learning, teaching and learning process.

2. Teaching Grammar in Indonesia

All languages have their own grammar. People who speak the same language can communicate because they know the grammatical system of that language. Because the use of language to communicate presupposes grammar, therefore all speakers and writers of a language must have knowledge of grammar.

According to Scott Thornbury (2020), Teaching Grammar Is helping students to develop their awareness of grammar and to use that grammar effectively in communication, Thornbury emphasized

that grammar should be taught in context and that students should be encouraged to use grammar in meaningful tasks. Since the era of globalization has been launched in the world of education, including in Indonesia, which makes understanding foreign languages indispensable. For this reason, foreign language skills such as English are needed to be one of the skills that must be possessed by everyone. From the definition above, we will know that grammar is very important to learn, it determines its purpose must be clearly given to the recipient, because bad grammar will cause miscommunication between writers and readers, because grammar is important to be taught because it affects students' performance in the four skills, listening, speaking, reading, and writing.

The Merdeka Belajar curriculum allows the application of innovative and inclusive teaching methods. In learning English, using the Duolingo application can be an effective tool for improving grammar skills, such as Simple Present Tense.

- Basic Understanding:
Give an introduction to the Simple Present Tense, explain its general use, and examples of simple

sentences. Discuss the relevance of the Simple Present Tense in everyday life.

- Duolingo App Introduction:

Introduce the Duolingo app to students and explain the advantages of using it for independent learning. Discuss how this application can be accessed via a device, incorporating technological aspects into learning.

- Application Through Practice:

Assign students to use Duolingo with a focus on modules or lessons related to Simple Present Tense.

Host a discussion session to discuss students' results and experiences using Duolingo.

Correct together with common mistakes in using the Simple Present Tense based on the exercises in the application.

- Discussion of Vertical Concepts:

Apply the concept of Simple Present Tense in the context of writing simple paragraphs or dialogue through class discussions.

Encourage students to use the Simple Present Tense correctly in broader contexts.

grammar of the target language. According to Ur (2006) "Grammar not only influences how language units are combined to look correct, but also affects

their meaning". Supporting their opinion, Knapp and Watkins state that "Grammar is the name of the resource available to users of language systems for generating text.

from the opinion above it is important for students to learn grammatical structures starting from applying grammar correctly, one must use the correct grammar rules. Lyons in Alfiyani (2013: 38-55) classifies grammatical categories into three types and explains them, namely:

1. Primary Categories (word Classes)

- noun
- verbs
- adjectives
- adverbs
- pronouns
- prepositions
- conjunctions
- determiners
- interjections

2. Secondary Categories

- numbers
- gender
- case

- person
- tenses
- modes
- voices

3. Fuctional Categories

- subjects
- predicates

In Indonesia, learning English, especially grammar, is used as a rule that regulates word relations in a sentence that is learned formally at school. by being taught using textbooks or dictionaries, then students must follow the language instructions in it. In fact, sometimes classes tend to be boring because students face the same learning methods every day. As a result, they lack motivation in learning. Simultaneously, these conditions affect academic life and the learning process

To write well-structured writing, one must understand grammar. It consists of rules for changing meaning (morphology), word order (syntax), clause and phrase structure and classification of parts of speech (nouns, verbs, etc.), and issues concerning cohesion and coherence throughout the text. If grammar rules are violated too much, communication

may suffer, although establishing good grammar rules is very difficult.

At this time students have lived in the era of the latest curriculum, where technological developments are developing rapidly in the Free Learning curriculum. they try to find a lot of information online or study scientifically. They can browse a lot of information and news through the internet. Technological growth is related to the development of English. Technology can change the way students work, study, interact and spend their time. Along with the times, including smartphones, technology continues to grow, where smartphones are the main need for everyone, especially for students.

This makes learning in the new curriculum adapt to the increasingly rapid era of globalization, so that teachers and students can easily adapt to the use of interactive and cooperative learning technologies with the way learning is carried out in education today.

3. The Methods of Teaching Grammar

In general, the term "method" refers to ways of doing things and instructional techniques. According to Richards and Platt (2015), is any method that uses a variety of activities in the classroom. From these

definitions, it can be concluded that the term "technique" in the context of teaching English refers to methods of teaching English through the use of class activities, exercises, and assignments such as drills, role-plays, dialogues, completion of sentences. According to (Sun, 2017) there are reasons why grammar is taught in teaching English as presented below:

a. effective communication

Grammar teaching creates effective communication and brings meaning to the point.

b. Observe and remember the facts

Grammar teaching creates effective communication and brings meaning to the point.

c. The meaning conveyed

When there is a lack of contextual information, grammar is the basis for establishing the speaker's or writer's intention explicitly.

d. Teaching grammar gives students more learning experiences
efficient and systematic

as for examples of learning applications that can be used to assist in the provision of grammar learning materials in the context of using mobile technology, for example virtual grammar classes through services.

- a) Grammarz wars,
- b) aplikasi seluler Busuu,
- c) Grammarly,
- d) Duo Lingo.

This application is part of the media that makes online learning easier to learn grammar through the available network/internet. The process of learning language education is more precisely teaching about English grammar, which is used in the learning approach to the Merdeka Learning curriculum and the role of the teacher as a mover is expected to realize optimal learning outcomes. This very fast and massive digital work system must be utilized to make dynamic changes that create optimal learning outcomes for English language education.

Based on the methods and use of the applications that have been described above in detail, the researcher can draw conclusions that the mastery of grammatical structures in students in the context of this study is defined as mastery of learning applications in a language and knowing the effects of using these applications which have an impact on grammatical abilities. students in using the formulation of the grammar both orally and in writing, as well as the need for appropriate teaching methods/techniques

used by the teacher in teaching grammatical structures to students.

B. Duo Lingo

1. The Definition of Duo Lingo Application

The role of information technology has grown rapidly in the field of education. As these changes take place, there is an increasing demand for the study of learning theory and the relationship between the use of computer devices. Mobile technologies such as tablets, laptop computers and smartphones enable learning in and out of traditional classrooms, bridging the gap between formal and informal learning. Online resources have brought almost universal access to learning, enabling independent learning on a global scale.

Mobile learning really helps students to study students wherever they want. Learners can use cellphones, tablet computers, media players or other portable devices that can be used anytime and anywhere, this is a useful medium that can help every student to learn a language because it can be used informally and spontaneously at every opportunity. In

fact, there are many language learning media in the world and Duolingo is one of them.

Duolingo is a gamification portable and program-based application launched in 2012 that allows clients to learn languages for free (Duolingo.com. 2018) is a free language learning application. This app was created by Luis von Ahn and Severin Hacker. In addition to being available in the web version, this application can also be accessed via an application that we can download via Android, iOS and Windows Phone. Duolingo is the most effective app to learn Spanish, French, German, Italian, Portuguese from English. That is, if we want to learn the five foreign languages mentioned earlier, at least students as users must be able to speak English first because the language of instruction used is English.

according to Greg Costikyan (2013), learning applications are a form of art in which participants, called players, make decisions to manage their resources through objects in the game to achieve goals. the application of learning as an activity that helps children achieve complete development, both physical, intellectual, social, moral, and emotional

Based on the description above, it can be concluded that this educational application is a type of application that is not only entertaining but also contains knowledge that is conveyed to its users. educational applications can be used as educational media that can be used as learning media.

2. Duo Lingo Feature of Teaching Grammar

To apply this Application in learning English, researchers will introduce Duolingo to students first, starting from installing the application on their mobile phones and choosing English as their course, (because there are many languages offered by Duolingo), researchers will explain to students how to work and introduces the different types of exercises available on Duolingo. There are many types of skill trees with different topics (such as levels or stages that will be unlocked if students have completed every available lesson in each skill they take.

After the researcher confirmed that Duolingo was installed on the students' phones, the researcher would let them complete one of the first skills. In the first basic skill the user must complete several lessons to proceed to the next skill. Students will be rewarded with surprising sounds and pictures when they complete their daily goals.

there are three types of daily goals that students can take before starting the lesson, namely relaxed (5 minutes a day), Regular (10 Minutes a day) and serious (15 minutes a day), students will also get lingots, it is Duolingo's in-game currency, represented by red ruby symbol. Users are awarded lingots when they reach a new level or when they reach a record length.

The essence of language learning in Duolingo is the teaching that will be taught to them, namely by dividing it into discussions per unit called skills and arranged in a top-down formation vertically which is called a skill tree. Different skills include, for example: clothing, questions, present 1–3 (verb forms), basic 1–2, possession, phrasing, and conjunctions. When all skill trees are completed, duolingo users will get achievements. There will be a trophy on the Duolingo app screen.

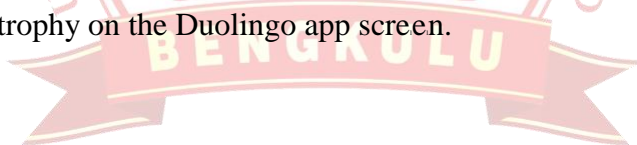




Figure 2.1 Future of Figure 2.2 Question of Duolingo

Looking specifically at the English learning program, there are 50 trees/stages on skills in English. for Indonesian speakers, one skill tree consists of several different lessons which we can see at <http://www.duolingo.com>. The skill tree consists of 50 topics, namely basic 1, basic 2, phrases, food, animal, plural, possessive pronouns, objective pronouns, clothing, present 1, colors, questions, conjunctions, prepositions, date and time, family, work, words adjective 1, present 2, adverb, place, thing, national, travel, determiner, number, present 3, education, past simple, infinitive, abstract, degree of comparison, infinitive 2, conjunction, abstract 2, reflexive pronoun, nature, gerund, sports, arts, communications, medical, politics, science, business, modals, events etc.

Mehtala (2015: 20) states that Each skill in Duolingo contains from one to ten short lessons, which generally consist of 20 exercises. Nushi and Eqbali (2017: 91-92) mention the types of training in Duolingo namely;



Figure 2.3 Question Translation Feature.

- 1) Translation exercises, where students will translate from the language they know to the language they want to learn or vice versa.



Figure 2.4 choose the appropriate picture

- 2) Matching exercise, in which students look at a photo and match it with the word that is given or vice versa

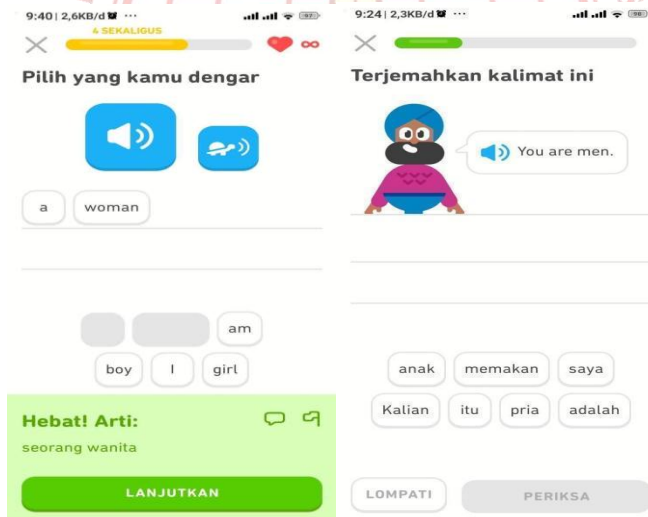


Figure 2.5 Listening Practice Session

- 3) Paired exercises, in which students are given an equivalent number of words from both languages and asked to pair them.
- 4) Listening exercise, in which the learner listens to short phrases in a second language and has to type them correctly.

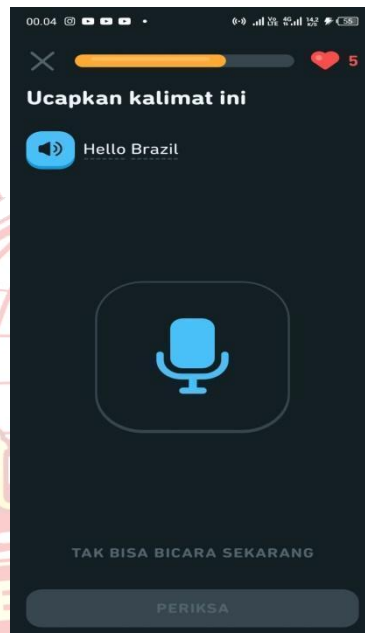


Figure 2.6 speaking ability test

- 5) Speaking exercises, where students have to say what they hear in the exercises that are given.

Duolingo has a design that is easy for users to understand, user-friendly, and can be used by students of all ages and cultures. These apps teach English to millions of people for free, although some have criticized the developer's method of making money by getting

people to translate texts for free as a by-product of learning the language. What sets Duolingo apart from other free language learning apps is its methodology: teaching users a foreign language through translation. Translation as a pedagogical technique fell out of favor with the emergence of the communicative approach to language teaching in the late 1960s on the grounds that it created a false sense of similarity between the two languages and acted as a barrier to using automatic and fluent language.

From the general description of Duolingo, which the researcher mentioned above, we can see that there are many types of exercises in English in terms of display sentence structure on the Duolingo application which are good for users and make learning English fun.

the different methods and lessons offered by Duolingo will motivate students to complete all the steps in Duolingo and it will improve students' grammar skills.

3. Advantage and Disadvantage of Duo Lingo Application

a. The Advantages of Duolingo

- The main advantage that is rarely found in other applications is that there are new vocabulary and sentences for students to learn

- Students and Teachers can install this application at no cost.
- This duo lingo application is an all-in-one language, that is, in addition to grammar, it can also be used to learn to speak, write, listen and read
- This application has features in the form of an achievement progress system, and attractive graphics, this is useful for learning new vocabulary. Students can suppress the new word and form a sentence according to its structure.
- Students can study at their own pace because in this application they can adjust their level of English. This can increase our confidence in learning English.
- Teachers can easily monitor their students' language learning progress using Duolingo.
- The students can also compete against each other with their friends in class, which encourages them to go ahead and break previous records. Students can also earn experience points (XP) to track how much they use Duolingo.

By downloading from the Play Store, Duolingo itself can be accessed on both PC and Android devices. The user

interface is clear and very simple. In addition, the translation, listening, matching and speaking exercises are perfectly balanced. Students can still hear what's being said thanks to the voice recognition program, which isn't too shabby

b. The Disadvantages of Duolingo

- The problem with this app is that the speaker's voice sounds like Google Translate, so it's not ideal for practicing conversations as it's clunky.
- In this application, there are several learning features that can be accessed if you want to access premium features, users must spend money to buy coins.
- Duolingo does not offer a means for users to communicate with any native speakers.

Duolingo has a user-friendly design and can be used by students of all ages and cultures. What sets Duolingo apart from other free language learning apps is its methodology: teaching users a foreign language through translation. Translation as a pedagogical technique fell out of favor with the emergence of the communicative approach to language teaching in the late

1960s on the grounds that it created a false sense of similarity between the two languages and acted as a barrier to automatic and fluent language use.

From the general description of Duolingo that the researcher mentioned above, we can see that there are many types of English exercises which include grammar exercises. Duolingo also has a great user interface and makes learning English fun. the different methods and lessons offered by Duolingo will motivate students to complete all the steps on this app and it will improve students' grammar skills

C. Previous Study

- 1) The researcher found that one of the thesis research used the Discord application as a variable. This study entitled '*The Effect of the Duolingo Application on Student Achievement in Vocabulary*'. The study was researched by Dina Amalia in 2019..

The study used experimental method to analyse the data. The study relied on pre-test and post-test design to get the necessary data of one experimental and one control group, 80 university students altogether. The results of the pre-test showed no significant difference between the two groups. The experimental group was taught with the help of the

Duolingo application, while the control group was dealing with the traditional educational process, that is, 180 min every week in a classroom with a textbook and no electronic educational resources. Results of the t-test indicated that the experimental group significantly outperformed the control group on a researcher-made vocabulary post-test. A post-treatment speaking test was administered the participants took part in speaking interviews where they were asked to give a short speech on one of the topics studied during the experimental training. The representatives of the experimental group managed to use more vocabulary items per person correctly (pronunciation, lexical combinability, etc.). The findings revealed that the suggested way of using the Duolingo application may positively influence the acquisition of EFL vocabulary and its further application in speaking. Hence, it is recommended that the Duolingo application be used as a tool in the EFL vocabulary teaching and learning process to reinforce in-class tasks and activities.

The research equation that I examined from Dina Amalia's 2019 study entitled "*The Effect Of Duolingo Application on The Student Achievement in Vocabulary*" is the use of the Duo Lingo learning

application variable using the quasi-experimental method, using the control class and the experimental class to get data with the process of learning effectiveness of duo lingo.

as for the difference that I use in this study, namely using dependent grammar learning because this application can also help students improve their grammatical skills

- 2) As for another example as a reference, I also use it from sister Zakiyah's thesis entitled *Use of Media and Technology to Improve English Grammar Teaching Skills* in the 2021 Pandemic Era. Grammar is one of the language skills needed to understand the learner's knowledge base that is useful for read, write and speak English more effectively. Grammar teaching must also be more relaxed and easy to understand for students to get better achievement. This must be achieved with the understanding that learning is currently focused on digital systems. As a result, technology plays a very important role important in teaching English. Just as technology is used in English classrooms to make students more excited and inspired. It relates to existing educational phenomena or conditions that provide the basis for

the application of new methods and techniques to carry out active learning if The educational gamification process is one of the active learning methods. Certain games can illustrate students' motivation for game engagement and increase enthusiasm for grammar learning games. According to previous research, one of the active gamification methods in grammar is using the Duolingo application. The purpose of this article is to introduce e-learning-based learning methods using the Duolingo application, especially during this pandemic, and provide the best alternative for teachers and students to develop students' English grammar to support technology-based teaching and learning processes

The similarity of the research that I took from Zakiyah's research is the teaching skills of English grammar using learning technology-based media that can make students understand English learning, then as for the differences that I use in this research, that is, to be more specific, namely using the learning application media used in this study. familiar with duo lingo, with this application it is hoped that it can help students learn grammar

- 3) then there is a relevant study journal that I can use as a reference for writing from Vigo Dewangga in 2020 entitled *The Perception of Computer Engineering Department students at Jember State Polytechnic towards the use of Duolingo in learning English.*

Duolingo application is an online free language educational application. It become more suitable, innovative and applicable way to learn english in EFL classroom. The aim of this study is to find out the students perception towards the use of duolingo application in learning English. The method used in this study is a descriptive research. Then, subject of the study are students at computer engineering department, Politeknik Negeri Jember. The result of this study revealed that computer engineering Department students at Politeknik Negeri Jember come to realize duolingo as a software that is easy to use, interesting and enjoyable for learning English. In addition, duolingo bring a new concept (gamification) in learning English. Thus, it makes them very exciting in learning English.

The Similiaty contained in the Vigo journal is the use of the Duo Lingo interactive learning application which provides innovative and interactive education for learning English in the classroom.

as for the difference that I use the dependent variable of grammar learning which I think this duolingo application can also be used in learning grammar in class

D. Conceptual Framework

Grammar is one of the fundamental components of English, as was stated in the literature review above. It is well known that the grammar component cannot be separated from the four other skills of speaking, reading, writing, and listening.

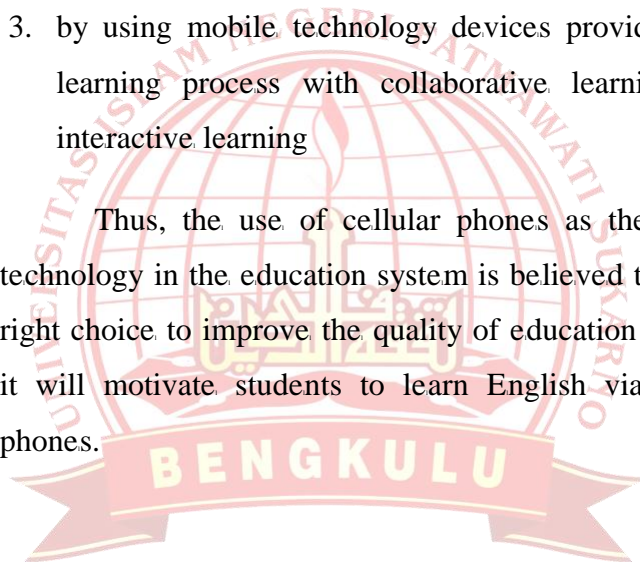
Grammar instruction must be more enjoyable and fun for students in order to keep their interest in the teaching and learning process. It is not enough to simply give students a few words to write and memorize. It is more significant to consider how teaching strategies relate to grammar instruction. In order to aid teachers in teaching grammar in the classroom, the Duolingo app is being used as a learning tool.

With mobile technology-based learning applications it is believed that it can improve and support the grammar learning process properly and train them in a more active and interactive academic understanding so that learning material can be understood by students, as

for several factors that can motivate students and educators to use the application cellular. that is:

1. small (portable), functional, which can provide instant and spontaneous information
2. students' expectations of independent learning experiences, flexible learning, lifelong learning, and fun
3. by using mobile technology devices provided as a learning process with collaborative learning, and interactive learning

Thus, the use of cellular phones as the use of technology in the education system is believed to be the right choice to improve the quality of education because it will motivate students to learn English via mobile phones.



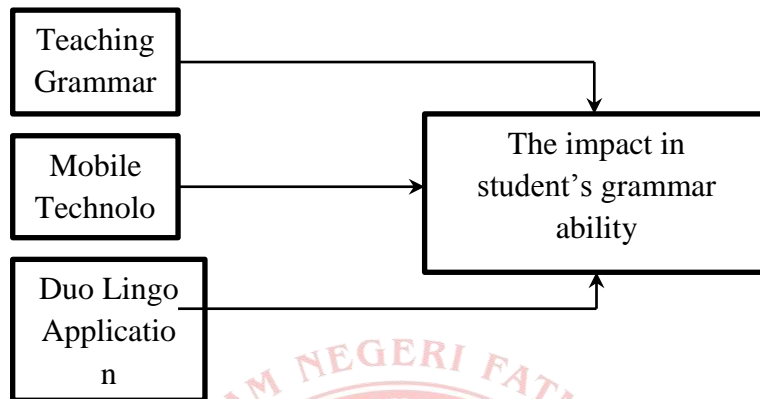


Figure 2.1 Conceptual framework

The researcher has taught grammar in each experimental and control class using the conceptual framework from the previous page as a guide. The control class and the experimental class were taught at the same time. The experimental class uses the Duolingo application to teach grammar, while the control class uses more traditional methods like memorizing vocabulary.

E. Hypothesis

Researchers analyzed whether there was a significant influence using the Duolingo application on grammar skills in class XI of SMAN 9 Bengkulu City for the 2022/2023 academic year. The hypotheses (H_a and H_0) are explained in the following statement:

- Alternative Hypothesis (H_a): the significant effect of using the Duolingo application on grammar skills in class XI of SMAN 9 Kota Bengkulu in the 2022/2023 academic year.
- Null Hypothesis (H_0): There is no significant effect of using the Duolingo application on the grammar mastery skills of class XI students at SMAN 9 Kota Bengkulu for the 2022/2023 academic year."

