

CHAPTER II

LITERATURE REVIEW

2.1 Theoretical Framework

2.1.1 Duolingo

“Duolingo is a free online language platform that provides translation assignments for learning vocabulary and grammar (in the form of studying and practicing a given topic), as well as assignments for practicing pronunciation and listening” Herlina, Yundayani & Astuti (2021:246). Duolingo is easy to use because the usage procedure is simple, so Duolingo can be used for all ages. This means Duolingo is easy used and more interesting, so it will be comfortable as our media use in teaching in class.

Furthermore, Jaskova says that Duolingo is a decent application in language learning for vocabulary. It can make students more obvious and remember the words, make them intrigued, appreciate, and blissful in learning since it gives battle in the educational experience. The researcher advantage in picking Duolingo application is that the application utilizes gamification procedures that make it simple and amusing to utilize. Gamification is a game-based and tasteful learning component that draws in individuals to think, play, rouse, and take care of issues. It has different and exceptional methods in learning language particularly on vocabulary. It very well may be a future in learning language. It can without much of a stretch access and gives a great deal of language, this Applications that can be utilized on iOS, Android, and Windows phone is made so that clients can keep on working on the capacity to examine whenever and anyplace. Thus, it is so useful to the individuals who need to learn vocabulary.

According, Paula (2016 : 60) “duolingo is an application for cell phones or computers. It is one of the most famous and praised language teaching applications on the market. It works in a very 14 simple way and it is very useful for those who are studying English and several other languages, such as Spanish, Italian, German and Turkish. It can

be used for at least five minutes a day, and the users define how they would like to practice it right from the beginning. The four skills, reading, writing, listening and speaking, are present during the learning process in Duolingo, through elaboration of questions, affirmative and negative sentences, small texts and excerpts to be heard and transcribed, and it is also possible for the students to record their own pronunciation to assess their oral performance.” As the conclusion that Duolingo is either of English teaching learning media, which is able to assist the students in learning English which is more enjoyable, because it is such as the game based free learning platform, that can be used as educational technology in school.

2.1.2 Vocabulary

The body of words and phrases used in a particular language or subject matter is referred to as vocabulary. It incorporates the words that an individual knows and uses, and can be considered a proportion of their semantic and social skill. As stated by Lines (2005:121) in Rusdi et al (2022), vocabulary is the grouping of words that a person is aware of. Vocabulary could characterize as various words in a language which contains data about its importance in structure and utilization correspondence. According to other research, Neuman and Drawyer, as cited in Bintz (2011:44) in Rusdi et al (2022), Vocabulary is identified as the words that a person must be familiar with in terms of communicating.

In essence, vocabulary serves as a critical foundation for language comprehension and expression. It allows individuals to understand and convey ideas, emotions, and information accurately. A rich vocabulary enhances one's ability to engage in meaningful communication across various contexts and subjects, making it an indispensable component of language learning and overall linguistic competence.

Vocabulary is competence to know words and meaning. The mastery of English vocabulary itself is closely related to the ability of the learner in acquiring the vocabulary. Henry and Pongrantz (2006, p. 246), points out that “mastering a language means being able to

comprehend the vocabulary and its phonological system both in speech and in writing”. It means that the learner who learns English as the second language must comprehend the meaning of the words and is able to apply them in sentences vocabulary mastery in children plays an important role in achieving achievement and success in children at school. The more words a child masters, the more vocabulary understanding they have. The child’s low mastery of Indonesian vocabulary is thought to be because parents, when communicating with their children , often use their mother tongue or regional languages more often than Indonesia and Indonesia is rarely used when communicating with their children.

2.1.2.1 Importance of Vocabulary

Vocabulary defines as an urgent part in correspondence and articulation of contemplations, thoughts, and feelings. It enables to express our thoughts and ideas in a clear and concise manner and contributes to the meaningfulness of language. Vocabulary is regarded as the key factor linking all skills required in communication (Huyen & Nga, 2003 cited in Naderiheshi, 2022).

Vocabulary acts as a crucial bridge connecting the four fundamental language skills: speaking, listening, reading, and writing. As students expand their English vocabulary, they gain a powerful tool that simplifies their overall language learning process. This expanded word knowledge enables them to articulate their thoughts more effectively in writing, engage in English conversations with greater ease, and comprehend both spoken and written English more readily. Essentially, a well-developed vocabulary opens doors to more efficient and effective English language acquisition and use across all skill areas. Paul Nation - As an expert in language teaching, Nation emphasizes that a broad vocabulary is an essential foundation for reading and comprehension. He argues that without an adequate vocabulary, reading comprehension suffers because

readers are unable to identify and understand words in their broader contexts. Here are the opinions of experts about the importance of vocabulary

- a. Best known for his Input Hypothesis theory, believes that exposure to rich and varied language, including vocabulary, is key to effective language acquisition. He believes that vocabulary acquired through natural learning and extensive reading can accelerate language acquisition.
- b. From a book about "Bringing Words to Life," these three authors emphasize the importance of explicit vocabulary instruction. They argue that students need to learn vocabulary in meaningful contexts and engage in discussions and activities that promote the use of new words.
- c. Said highlights how vocabulary and conceptual understanding are closely related to one's ability to participate in a variety of social and cognitive practices. He argues that a broad vocabulary enables individuals to interact more effectively in a variety of social and professional contexts.
- d. "The Knowledge Deficit," argues that general knowledge and a rich vocabulary are fundamental to effective education. He suggests that vocabulary learned not only impacts reading ability, but also understanding broader information and social contexts.

Overall, vocabulary is considered one of the most fundamental aspects of language learning and literacy development. The ability to understand and use vocabulary appropriately has a direct impact on reading comprehension, communication, and overall academic learning.

2.1.2.2 Development of Vocabulary

Not only does vocabulary impact speaking abilities, but it also influences reading, writing, and listening skills. When pupils talk, the words they use have an impact on their comprehension, their impression, and how other people respond to them. Students' use of terminology in writing affects how precisely and clearly they can communicate their ideas to others.

Vocabulary in listening affects how well students comprehend class discussions. There are four types of vocabulary that students should study and become proficient in. In Tankersley (2003:66), Snow and Colleagues (1998) state that "each of us has four distinct vocabularies: speaking, listening, reading, and writing." First comes the development of the listening vocabulary, then the In line with Brunner (2012:1) "there are four distinct types of vocabularies: speaking, writing, reading, and listening. The acquisition of each impacts the ability to communicate with others".

In addition Johnson (2008:93-94) states there are four different vocabularies, they are as follows:

- a. Listening vocabulary
- b. Speaking vocabulary
- c. Reading vocabulary
- d. Writing vocabulary

Based on the theories above, there are four different vocabularies. They are listening, speaking, reading and writing vocabulary. Each of them has different function. It means that if the learners want to speak something, they need speaking vocabularies. Speaking vocabulary is used to communicate. So, vocabulary is very important for the students in learning the language. Every skill in the language needs vocabulary, when the students are listening, speaking, reading, and writing. They need vocabulary. Without vocabulary the learners will not be able to develop their skills.

2.1.3 Teaching Vocabulary by Using Duolingo Application

Students who are proficient in expanding their vocabulary can benefit from using Duolingo to expand their knowledge of English words. For the modern teacher, the new period brings with it new tasks and challenges. In order to address difficulties, we must be creative. Therefore, students and teachers can use technology to facilitate communication between language learners and teachers both within and outside of the classroom. The most common and practical ways to study a language are through mobile devices and peer-to-peer internet connections. It is anticipated that the teaching and learning software Duolingo would be successful in displacing conventional instruction.

The problem is that students tend to pay less attention because they think they have used the application through class, so they prefer not to use it outside the classroom. However, it remains the teacher's responsible to maximize the use of Duolingo as homework. It could give them actual physical rewards, extend task deadlines, and so on.

Since vocabulary is the primary focus of the Duolingo app, as was previously said, using it to teach those subjects is advised. There are a number of ways to use Duolingo to teach EFL students, in addition from (Paul, 2014). The teacher allows students to work alone for at least half of class time, with the remaining time being spent in groups engaged in language awareness exercises or online language reviews. The instructor can also conduct a review and offer some comments at the same time. It's crucial to keep making sufficient progress with Duolingo outside of the classroom as homework.

2.1.3.2 Benefits of Using Duolingo

Diaz (2020) asserts that there are several advantages to using Duolingo, such as enhancing learning and inspiring users. There are several advantages to using Duolingo as a homeroom learning tool. Among the benefits include Improved language proficiency: Duolingo provides a gamified approach to language learning that has been shown to improve users' language skills. According to a research in the Journal of Educational Psychology from skinner, after just 34 hours of practice,

Duolingo users significantly improved their language skills. Convenient and easily accessible: Duolingo is a flexible app that can be used on both IOS and Android devices, allowing users to access and use it whenever they have free time. Cost-effective: Dissimilar to numerous customary language courses, Duolingo is totally allowed to utilize. This makes it an available choice for individuals who might not have the assets to pay for language classes or guides.

2.1.3.1 Advantages of Duolingo Application

There are several drawbacks to using the Duolingo Application in learning English vocabulary: The Duolingo application will work when there is an internet connection. Connectivity refers to how mobile devices can connect wirelessly using various mobile and wireless access technologies such as GPS, EDGE, GPRS, GSM, 3Gs, 4Gs, WiMAX, Wifi, WLAN(Imtinan, 2013). The Duolingo applicaion wont work when you ina remote area with no internetaccess.

Teachers must use a projector if they wish to use the Duolingo app in the classroom. Students will become more engaged and take part in the teaching and learning process as a result. Teachers must prepare more time and resources, such as projectors, loudspeakers, and notebooks, if they plan to use them in regular classrooms (Munday, 2016). The efficiency of utilizing the Duolingo app in the classroom will be decreased in schools without sufficient equipment, such as projectors and loudspeakers. According to the above description, schools must have sufficient facilities because the Duolingo application cannot be used without a strong internet connection and needs a projector in the classroom.

2.4 Relevant Study

In this instance, a number of earlier studies that were pertinent to the research the researcher was planning to undertake were located. They are found in journals and theses. It is anticipated that the topics of these investigations will be connected to earlier research. The initial piece An alternative for learning to speak English is the use of Duolingo media, according to the first study on the use of this technology-based learning tool to help students improve their speaking abilities.

The purpose of the study is to determine how using Duolingo materials can help students become more proficient speakers. This study employs a classroom action research design and a qualitative methodology. 35 students participated in this study, which was carried out at a state senior high school (SMAN) in Bekasi. Tests, interviews, and observations were used to gather data. The study's findings demonstrate that using Duolingo materials improves students' English-speaking proficiency. One of the challenges was shown to be their low motivation for learning English, according to the findings of early research. In Ellin et al. (2021).

The second researcher then focused on how students at SMP Negeri 3 Agrabinta Cianjur were using the Duolingo media application to improve their vocabulary mastery of English. Other pupils concurred that the most important skill for learning a language is vocabulary. The purpose of this study is to use the Duolingo media application to help seventh-grade students at SMP Negeri 3 Agrabinta become more proficient in English vocabulary. 22 seventh-grade students served as the research subjects for this two-cycle classroom action study. Data is gathered through performance evaluations, learning outcomes assessments, and observation.

Meanwhile, research data analysis techniques use qualitative and quantitative descriptive analysis. The results of this research indicate that the application of the Duolingo application media can improve the vocabulary mastery of class VII students at SMP Negeri 3 Agrabinta Cianjur. Because the richer a person's vocabulary, the greater the possibility that a person will be skilled in language and the easier it will be for him to convey and receive information either verbally, in writing or by using certain signs.

Basically, students learn vocabulary so they can improve their listening, speaking, reading and writing skills well (Erna 2021). And the last researcher said that the Duolingo app improved German vocabulary. The purpose of this study was to determine the mastery of German vocabulary in class X MIPA SMA Negeri 8 Makassar through the Duolingo application. Classroom Action Research, which has two

cycles—cycle I and cycle II—is the research methodology employed. Thirty-six pupils from class X at MIPA SMA Negeri 8 Makassar served as the study's subjects. Both qualitative and quantitative data analysis methods were used in this investigation. Observation was used to get qualitative data, and vocabulary improvement assessments in cycles I and II were used to gather quantitative data. Using educational materials is one way teachers can assist pupils in learning German language. Students will be more excited to study German if they use media, like Duolingo, to make the learning process more enjoyable.

2.2 Conceptual Framework

