#### CHAPTER I

**INTRODUCTION**

In this chapter discusses about : (1) background, (2) identification of problem, (3) limitation of problem, (4) formulation of problem, (5) research objectives, (6) benefits of research.

* 1. Background

The digital era requires people who are self-motivated, resourceful, and able to take ownership of their own learning to successfully adapt to the ever-changing digital environment. Including increasingly rapid globalization bringing major changes to the Indonesian education system which is increasingly intensive in learning English as a foreign language in the world of education. According to Rohmah (2019) English has been recognized and known worldwide as an international language, so every citizen needs to learn English to communicate internationally both orally and in writing. In communication has four language skills, namely reading, speaking, listening and writing.

Reading ability requires understanding and interpreting written texts. The capacity to recognize words, comprehend sentence structure, and evaluate the meaning of what is read. Speaking is the ability to express oneself verbally using the language one knows. The ability to accurately form sounds and words, structure sentences, and communicate messages clearly and efficiently. Listening is the ability to comprehend and interpret what is said during a conversation, presentation, or other spoken text. This involves the ability to retain important information, recognize words, intonation, and nuances in another person's speech. Meanwhile, writing is a ability that allows you to convey your ideas, thoughts, and facts through writing. Used words and phrase patterns to express messages in a clear and effective.

Writing was one of the language skills that needs to be mastered when learning English. However, mastering writing skills in a second language, such as English, poses many challenges for students, especially regarding the use of grammar. Grammar plays an important role in English learning. According to Ameliani (2019) grammar can be defined as the rules that control how a sentence is constructed in a particular language. It can be explained that grammar is a systematic rule that regulates the structure of language use. Grammar as the structural foundation of language, plays an important role in determining the clarity, coherence and accuracy of written expressions.

Based on a preliminary study conducted at MTs Ma'ariful Ulum. Researcher found that in learning English grammar, students still experienced difficulties, in understanding verbs and tenses in English writing. Teachers also try to convey material in a language that is easy for students to understand. However, as much as possible, teachers also get students used to using English and teachers have also used various learning media to help students in learning English. Therefore, researcher want to help students to improve their ability in learning English by introducing new technology media.

In this research, the Chat GPT application is used to increase students’ abilty in learning English grammar regarding simple persent tense. Chatbot it self is an artificial intelligence program that is able to provide responses to user questions in a way similar to human interaction, but in the form of automatic text (Julianti, 2022). This application explains English grammar as a basic component that offers an innovative way to improve language mastery in language proficiency. Interestingly, Chat GPT is designed to remember questions asked by students or others and automatically correct them based on input. Even though Chat GPT is artificial intelligence, the technology is not as sophisticated as robots. However, Chat GPT has a potential solution to improve teaching quality. With its capabilities, Chat GPT can be used as a virtual assistant in providing teaching assistance, especially in the context of teaching English.

Although AI technology is increasingly used in education, research on the use of the Chat GPT application in learning English grammar such as the simple present tense is still limited. Most of the existing studies focus on traditional learning technology, not AI-based, so the effectiveness of interactive AI applications such as Chat GPT has not been explored in depth. Therefore, researchers are interested in filling this gap by understanding and knowing more about the use of the Chat GPT application and testing whether Chat GPT can function as an effective supporting tool in improving students' English grammar skills on the simple present tense material through research entitled "UTILIZATION OF THE CHAT GPT APPLICATION AS A SUPPORTING TOOL IN LEARNING ENGLISH GRAMMAR".

* 1. Identification of problems

Based on the problems presented in the background above, the problems of this research can be identified as follows: MTs Ma'ariful Ulum students students still experienced difficulties, in understanding verbs and tenses in learning English.

1.3 Limitation of the problem

Based on problem identification, the researcher was limited the problem to: Using the Chat GPT application to improve students' ability in learning English grammar regarding simple present tense.

* 1. Formulation of the problem

Based on the background above, the researcher can formulated a more specific problem, namely:

Can use the Chat gpt application improve students' ability to learn English grammar regarding simple present tense?

1.5 Research Objectives

In accordance with the problems above, this research was expected to achieve the expected goal namely, to find out how or not the use of the Chat GPT application can increase students' ability in learning English grammar regarding simple present tense.

* 1. Significance of research

Positive contribution based on research results. In general, this research is expected to produce two types of benefits: theoretical and practical.

* + 1. Theoretical Benefits

Theoretically, the results of this research was intended to contribute to educational understanding, especially in terms of the use of the Chat GPT application to students' learning of English grammar.

* + 1. Practical Benefits

The practical benefits of this research are:

1. For students

The Chat GPT application is an application that helps students' learn grammar more easily and helps students' learn English vocabulary.

1. For teachers.

It is hoped that the findings of this research was helped improve teacher professionalism and inspire teachers to use AI applications in English language teaching.

1. For Other Researchers.

This study can be used as a reference for future research on the use of A.I. or Chat GPT application.