ABSTRACT

Astagina, Vanessia Aura Tahta.2025. *Students Perception of the Use of Duolingo in Vocabulary Mastery at SMAIT Al-Ghozali Jember.* English language education program, faculty of teacher training and education, Muhammadiyah University of Jember. Advisers: (1) Dr. Anita Fatimatul Laeli, M.Pd, (2) Henri Fatkurochman, M.Hum.

Keywords: Student Perception, Duolingo, Vocabulary Mastery**.**

Vocabulary mastery is categorized as the base component of language learning. In this current state, there are many learning tools which can help EFL learners rising their vocabulary mastery, one of which is Artificial Intelligence (AI). Artificial intelligence tools are software applications or systems that employ AI technology to carry out tasks that often call for human intelligence. Duolingo is one of artificial intelligence tool that can be implemented in language learning in mastering vocabulary.

Hence, the aim of this study is to investigate student perception on upgrading vocabulary mastery through Duolingo as learning tools. Student perception in this study are divided into three factors (perception, attitude, experience).

Mixed method is implemented on this investigation to analyzes the data. Data was collected through questionnaire as numeric data and interview as qualitative. The numeric data was analyzed through descriptive statistic, while the qualitative data was analyzed through qualitative analysis. The findings indicate a strong positive perception that Duolingo has crucial role on improving student vocabulary mastery. Duolingo app features such as leaderboards, challenges, achievement systems, and feedback features that enable students to learn independently are things that influence students to help them master English vocabulary. On the other hand, the ease of using these features in the Duolingo application also supports the development of their language skills. Thus, it can be concluded that students' perception of the application of the Duolingo application in learning English to enrich their vocabulary are very positive and good.