

ABSTRACT

Current information technology requires the world of education to be able to adapt to technological developments in improving the quality of education. Students and students use WhatsApp teaching media as a communication tool. WhatsApp's ability to chat needs to be developed by adding a bot, namely OpenAI-based ChatGPT. The addition of this capability is a new breakthrough in the Chatbot application. The use of Artificial Intelligence (AI) and Artificial Intelligence Markup Language (AIML) can produce applications that are able to interact with users automatically. This research discusses the application of OpenAI to the WhatsApp Chat bot application using Node.js. The purpose of this research is to design, develop, and apply the use of WhatsApp bots integrated with OpenAI that can filter ChatGPT in the learning process. Alpha testing results show that the application can run according to its function, and the response time obtained from ChatGPT with an average of 20 seconds shows the application runs according to its function and can filter words in high school learning with an average response time of 1 second. From the results of beta testing using the System Usability Scale (SUS) questionnaire on 60 respondents, a value of 89.66 was obtained, which means that the application is Acceptable with Grade A + at a percentile rank value of 97.5%. Overall, it can be concluded that the application can be used for learning.

Keywords: AIML, API WhatsApp, ChatGPT, OpenAI, WhatsApp,