

Prototype of The Quran and Translation of The Ministry of Religion 2019 Edition in Quran Live Chat on Whatsapp and Telegram Applications

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Abstract

This study aims to integrate the Qur'an and its translation in an instant messaging application. The method used This research uses a mixed method, which combines qualitative and quantitative methods. This study resulted in a product in the form of a chatbot named Quran Live Chat and concluded that there were benefits felt by users in searching for the latest verses and translations belonging to the Ministry of Religion for the 2019 edition of the refinement by using instant messaging applications such as Whatsapp and Telegram. This study recommends that further research be carried out related to the integration of the book of interpretation.

Keywords: Al-Qur'an, Chatbot, Telegram, Whatsapp.

Introduction

In today's digital era who does not want to make all activities feel easier, one of them when looking for a verse in the Qur'an certainly wants to be done in a practical way. Interactive Qur'an is a means of understanding the science of the Qur'an easily (Hambali & Surjono, 2015). Nowadays technology has helped many people in various ways, one of them is in learning. Chatbot technology contained in instant messaging applications is one of the perceived benefits in the ease of interacting (Aulia et al., 2019). Efforts to integrate the Qur'an with *chatbot* technology can make people in studying the Qur'an should interact through instant messaging applications.

Hootsuite in 2019 conducted research on users of instant messaging applications and as a result many Indonesians who use *Whatsapp* and *Telegram* applications by 83% means as many as 124,000,000 Indonesians (Jayani, 2019). There is a similar research with the title "*Utilization of Instant Messaging For Learning Applications Reading the Qur'an With Tsaqifa Method.*" This article concludes that the use of *chatbots* that have been created can be a learning tool and more interactive for users (Aulia et al., 2019). In

addition, another study with the title "*Utilization of Whatsapp Application In Learning Media At UIN Ar-Raniry Banda Aceh.*" This article concludes that the effectiveness of the use of *Whatsapp* application in learning that became one of the characteristics of the web technology generation 2.0 (Prajana, 2017).

The results of previous studies are useful for researchers in my own frame of mind. There has been a lot of research that utilizes *chatbot* technology as a means of education. However, until now no one has researched and made the product of the Qur'an *chatbot*. Therefore, researchers focused this discussion on the systematics of making *chatbots* of the Qur'an that eventually produce a product with the aim of benefiting the people of Indonesia and helping disseminate the Qur'an and translation of the Ministry of Religious Affairs improvement edition 2019. All discussions and products in this study are the original results of researchers so that they can be accounted for. The question in this study is how is the Qur'an interactively present in instant messaging applications and provide benefits to Indonesians in the digital age?

Research methods

This study uses a mixed method, which combines qualitative and quantitative methods (Masrizal, 2011). Qualitative method through literature study (Darmalaksana, 2020a) and quantitative methods with experiments on product testing (Jaedun, 2011). Library sources are collected both primary and secondary (Darmalaksana, 2020b). The main sources for making this product are the Al-Qur'an and the translation of the Ministry of Religion for the 2019 edition of the completion of Lajnah Pentashihan Mushaf Al-Qur'an (LPMQ). As for the interpretation in carrying out the analysis used translation, systems approach, and technology tools.

Results and Discussion

Chatbot is software that can communicate with humans using natural language (Zuraiyah et al., 2019). The conversation model uses artificial intelligence to be able to understand the user's speech and provide responses that are relevant to the problem discussed by the user. Chatbots can also be interpreted as algorithms and programming to respond or interact with users via text or voice messages (Albayrak et al., 2018). The response given by the chatbot depends on the input keyword that was started. The chatbot will reply to keywords with the most similar pattern from the textual database (Oktavia, 2019).

Figure 1. Illustration of how a chatbot works

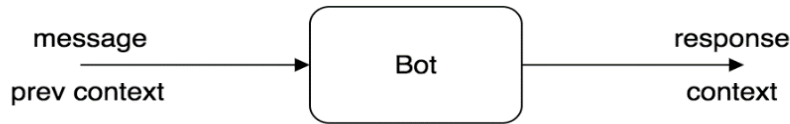


Figure 1. Illustration of how a chatbot works when it gets messages based on words, and will respond to messages sent according to the messages that have been specified.

Researchers use several supporting applications in making the chatAI-Qur'an chatbot, as follows:

Table 2. Applications for creating chatbots

Chatbot Creation App		
No	App	Functions/Usage
1.	Microsoft Word (docx)	Processing verses and translations
2.	Microsoft Excel (csv)	Processing database
3.	Google Spreadsheet	Save message data
4.	BlueStacks App Player	Virtual machine (emulator)
5.	WhatsAuto	Activate chatbot database

Table 2. Applications used to create chatbots

Figure 3. Chatbot on Google Sheets

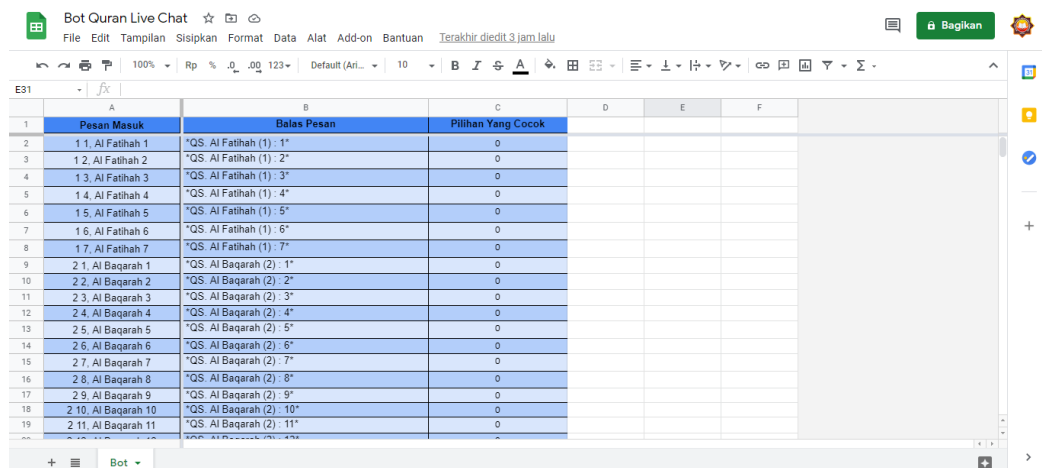


Figure 3. Chatbot of incoming messages and replying to messages on Google Sheets

Quran Live Chat can be contacted 1 x 24 hours according to user needs. Currently, you can display verses and translate them by calling the

number 0851-5502-4733 through the Whatsapp and Telegram applications. In today's modern era, there are always new innovations in developing the interpretation of the Qur'an. This aims to provide convenience to Muslims in studying, exploring, and embellishing the contents of the Qur'an in each verse (Faizah & Rusydati, 2021). The presence of Quran Live Chat can be a problem solving for Indonesian people who always use smartphones every day but rarely hold the Qur'an.

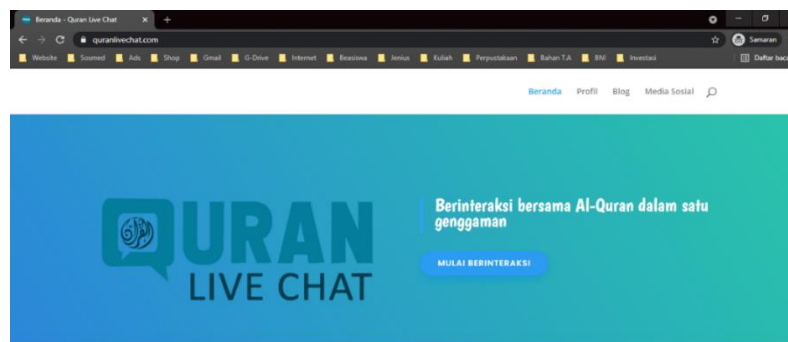
Figure 4. Chatbot trial



Figure 4. Testing the chatbot (Quran Live Chat)

Quran Live Chat has a website with the domain address www.quranlivechat.com as a means of information that can be used by its users. Users can see the latest info on feature updates, usage tutorials, find out common questions and can follow the Quran Live Chat social media because everything is well integrated.

Figure 5. Quran Live Chat Website



The results of this study support the results of previous studies that the use of chatbots can be a more interactive learning tool for users (Aulia et al., 2019). This product is also a Whatsapp application development in learning as a characteristic of the generation of web 2.0 technology (Prajana, 2017). This original product is expected to be an educative alternative to instant messaging, where Whatsapp and Telegram are used by 124,000,000 Indonesians (Jayani, 2019).

Conclusion

The integration of the Qur'an and the translation of the 2019 edition of the Ministry of Religion with the instant messaging application has been completed. The results of this integration are now present in the Qur'an chatbot on the Whatsapp and Telegram applications, which are named Quran Live Chat. Through this Quran Live Chat, the Indonesian people can find out the verses and translations of the latest edition of the Ministry of Religion in the grip of a smartphone and reviewers of the Qur'an and interpretation can make it easier to study or research with the help of technology. This research has shortcomings and it is hoped that further research can be carried out as well as the development of new features in Quran Live Chat such as the Qur'an index, interpretation, and chatbot support on other instant messaging applications. So this study recommends further on this matter.

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