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The Role of the Tarteel Application in Maintaining the Memorization of Al-Qur'an Memorizers

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Abstract

The Quran is considered the word of Allah and was revealed to the last messenger by the angel Gabriel. It is a religious duty for Muslims to read the Quran, as they believe it to be the only reliable source of life guidance. The Prophet Muhammad SAW was instructed to have specialists write down the verses whenever they were revealed, ensuring that the Quran was constantly maintained. Memorizing the Quran is considered one of the greatest virtues and the highest form of worship before Allah SWT. There are various techniques for memorizing the Quran, including the Sorongan method, which has drawbacks such as lower time efficiency and effectiveness, as well as difficulties with memorization, including boredom and forgetfulness. To make memorizing the Quran easier and more effective, an application has been developed, providing personalized and interactive features tailored to individual needs. Additionally, the application addresses the monotony of the memorization process and can improve concentration and memory quality. The innovative Tarteel AI technology combines artificial intelligence to make learning the Quran more organized and effective. The application offers benefits such as reciting, memorizing, and searching the Quran. This study employs a descriptive qualitative literature research methodology and uses data reduction, data presentation, and data analysis techniques to acquire reliable data.

Keywords: Application, Tarteel, Memorizing, Al-Qur'an

Abstrak

Al-Quran dianggap sebagai firman Allah dan diturunkan kepada utusan terakhir melalui malaikat Jibril. Membaca Al-Quran merupakan kewajiban agama bagi umat Islam, karena mereka meyakini bahwa Al-Quran merupakan satu-satunya sumber petunjuk hidup yang dapat diandalkan. Nabi Muhammad SAW diperintahkan untuk meminta para ahli untuk menuliskan ayat-ayat setiap kali diturunkan, untuk memastikan bahwa Al-Quran selalu terjaga. Menghafal Al-Quran dianggap sebagai salah satu keutamaan terbesar dan bentuk ibadah tertinggi di hadapan Allah SWT. Ada

berbagai teknik menghafal Al-Quran, termasuk metode Sorongan, yang memiliki kekurangan seperti efisiensi dan efektivitas waktu yang lebih rendah, serta terdapat kesulitan dalam menghafal, seperti rasa bosan dan mudah lupa. Untuk membuat proses menghafal Al-Quran lebih mudah dan lebih efektif, telah dikembangkan sebuah aplikasi, yang menyediakan fitur-fitur yang dipersonalisasi dan interaktif yang disesuaikan dengan kebutuhan masing-masing individu. Selain itu, aplikasi tersebut mengatasi kemonotonan proses menghafal dan dapat meningkatkan konsentrasi dan kualitas memori. Teknologi AI Tarteel yang inovatif menggabungkan kecerdasan buatan untuk membuat pembelajaran Al-Quran lebih metodis dan efektif. Aplikasi tersebut menawarkan manfaat seperti *Recite, Memorize, and Search the Qur'an*. Penelitian ini menggunakan metodologi penelitian kepustakaan kualitatif deskriptif dan menggunakan teknik reduksi data, penyajian data, dan analisis data untuk memperoleh data yang dapat dipercaya.

Kata Kunci: Aplikasi, Tarteel, Hafalan, Al-Qur'an

Introduction

The Qur'an is the word of God given to the last messenger by the angel Gabriel and conveyed to us mutawatir. Reading the Koran is a religious obligation. The many miraculous elements seen in the Qur'an prove its status as a revelation from Allah. The only undoubted and definitive source of unanimity for Muslims is the Koran, which is also their eternal karomah. The Qur'an cannot be replaced by any addition or subtraction.[1].Since the Qur'an was revealed 1,400 years ago, many scientific truths have been mentioned. These realities are now revealed through the use of advanced technology. Muslims believe that the Qur'an is the only reliable source of guidance for life. The Qur'an is absolute and universal because it contains fundamental teachings on all aspects of human life that can be developed according to the logic of each period and is functionally present. When Allah SWT revealed the Qur'an to the Arabs, the majority of them were illiterate. However, among the privileges enjoyed by the majority of them was an extraordinary memory. In this situation, it is also recommended to make efforts to disseminate and preserve the Qur'an based on this observable phenomenon.

Every time a verse of the Qur'an was revealed to the Prophet Muhammad (PBUH), he was ordered to memorize it and ask an expert to write it down. In this way, the Qur'an will always be preserved as long as he lives. One way to ensure that the Qur'an remains preserved throughout time is to memorize it. However, globalization today brings many changes. The speed of development of science and technology is one thing that cannot be stopped. The application of artificial intelligence in education is increasingly in demand along with the development of technology. The use of AI offers a fantastic opportunity to increase the likelihood of success of the learning process.

The most noble worship in the sight of Allah SWT is memorizing the Qur'an, which is a very high virtue. Although it is not impossible, memorizing the Qur'an is highly recommended and encouraged. Allah will certainly make it easy for Muslims who want to memorize the Qur'an. Allah says that because of this great book of His, I have a unique privilege. Along with the increasing awareness of humans about the benefits of studying the Qur'an, there are more and more approaches and methods for memorizing the Qur'an.[2]And the amount of knowledge related to it. One way to memorize the Qur'an is by using the sorongan method.

By facing the teacher and reading the text that has been studied or memorized, students can get interactive guidance and feedback on the accuracy and fluency of their memorization and their understanding of the topic being discussed. This sorogan method is considered useful by many students. However, because it takes a lot of time, the Sorogan technique poses problems for learning efficiency. The Qur'an is easy to memorize, but it is also prone to forgetting if the memorizer does not take good care of it. In addition, there are other difficulties in memorizing the Qur'an today, such as forgetfulness and boredom. The increasingly attractive technology found in smartphones and other gadgets is the cause. One of the main principles of Muslim religious practice today is memorizing the Qur'an.

The Qur'an, Hadith, and other sources of knowledge available to the general public have been digitized in response to these problems and constraints. In addition, the use of AI technology to help children learn the Qur'an is a very appropriate application of technology. It will be easier for Muslims to access information practically and easily if easy-to-use applications and platforms are developed.[3].Thus, people can learn new things and gain a deeper understanding of religious teachings that suit their views in a proper and appropriate manner. The ease and effectiveness of the process of memorizing the Quran are further enhanced by the availability of this application. People can interact with the holy book anytime and anywhere they choose thanks to the availability of a digital version of the Quran that facilitates accessibility. To prevent user fatigue, interactive and customizable features make learning more enjoyable and tailored to individual needs.

The first application developed to facilitate learning the Qur'an is Tarteel. This application is an additional tool that can be used to help memorizers of the Qur'an so that their memorization remains methodical and practical. In addition, this application can overcome certain obstacles, such as the

monotony of the process of memorizing the Qur'an which can interfere with the focus and quality of memorization of the memorizers.[4]. The process of memorizing the Qur'an is greatly assisted by various additional advantages such as motivation, progress monitoring, and complete learning materials. However, concerns about dependence on technology and the value of guidance still exist, so a careful balance is needed between modern technology and traditional values in the context of religious education. Such an understanding is needed to gain a more comprehensive understanding of how to memorize the Qur'an faster.[5].

According to Mukti et al.[6], motivation, curiosity, and reason are three important components in the process of memorizing the Qur'an. For memory to be strong and not easily forgotten, someone who wants to memorize the Qur'an must have the appropriate level of intelligence and curiosity. It is not enough to just move your hands to memorize the Qur'an. Every memorizer of the Qur'an will face various difficulties and obstacles when trying to memorize the Qur'an. The accuracy of mahroj and lafal needs to be considered because mistakes can change the meaning and significance of sentences.[7]. This cannot be considered a minor problem because the memorization process requires seriousness and extra time to be able to memorize and maintain muroja'ah is highly recommended for beginners. Memorizing is not just reading aloud and remembering information in the heart but also requires effort to understand and remember the printed material. To maintain the memory that has been worked hard to achieve, a memorizer must also have strategies, methods, and tactics. Time management is one of them; a memorizer of the Qur'an needs to have it to consistently obtain Muraja'ah every day.

Quran-memorizing apps play a vital role in helping the learning process in this rapidly changing world. Memorizing the Quran can be accelerated and made more enjoyable with the help of effective learning resources.[8]. The various features of these apps—including game aspects, spaced repetition technology, learning progress measurement, accessibility, and various learning methods—make them useful tools for enhancing learning capacity. By harnessing the power of technology, we can maximize learning potential and address educational barriers more effectively. Islamic literature has delved further and deeper into the topic of the function of apps in memorizing the Qur'an. In Islam, memorizing the Qur'an is seen as a noble endeavor, and technology has greatly assisted in this process.[9].

The study emphasized the advantages of using the app, including a user-friendly interface, audio recordings from renowned reciters, and speech recognition technology for accurate pronunciation interpretation. Having interactive elements and the capacity to collaborate with other users can help increase motivation and improve the educational process. However, there are problems with the current study, including problems with the technology and concerns about the loss of the spiritual component in education. In short, Hidayat[10]States that a deep understanding of the function of applications in helping people memorize the Qur'an requires holistic thinking that considers elements of technology, religion, and motivation in the context of Islamic learning.

An innovative method for memorizing the Quran efficiently and methodically is the Tarteel AI application technology. This program can recognize the user's voice, which can also provide real-time feedback on pronunciation and tartil while reading parts of the Quran. Tarteel AI also can track the user's progress in memorizing each verse and surah, assist in creating the best study schedule, and suggest study strategies based on specific needs. According to Zahrani and Muthahari[11], The Tarteel program facilitates automatic feedback on students' understanding of the Qur'anic text, enabling them to read it correctly and gain better knowledge of its contents.

This program improves the quality of one's Quran memorization and encourages one's spiritual journey as it can adapt the learning process to the user's preferences. This application is essential in today's Quran memorization era. By emphasizing recitation norms, offering guided stages, and audio recordings, the application's learning features facilitate the memorization of procedures by the user. Integrating Quran memorization exercises into daily routines is made possible with easy access, anytime and anywhere. To imitate the recitation accurately, listen to audio recordings of famous reciters for inspiration and instruction. While interactive components such as games and challenges make the learning process more engaging, statistics and progress-tracking tools offer further incentives. Quran memorizers can communicate and help each other in this setting, thanks to the application's user community. Mastery of memorized verses can be enhanced with additional references, such as translations and tafsir. The program uses rapidly evolving AI technology to help improve memorization, making it a useful resource for anyone interested in learning

more about the Quran in light of current events.

The Tarteel AI application that helps memorize the Qur'an and murojaah will be discussed in this study. This program is very good for beginners who have no experience in memorizing or murojaah because this program is simple and easy to use. Also available in Indonesian. The Tarteel application will be explained thoroughly in this study, starting from the installation and usage guide and providing examples of its application in memorization and murojaah. The purpose of this application is to help memorizers of the Qur'an improve their memory retention abilities and become more proficient in reciting its verses according to the correct memorization. As is known, Allah SWT revealed the Qur'an as a holy book, and the Prophet Muhammad SAW experienced a miracle when he made it a guide for his people and a guide to life.[12].

With a more contemporary, interactive, flexible, and adaptive learning approach, this research is expected to be able to offer creative ways to perfect the Sorogan method approach in teaching Islamic topics. Islamic principles are expected to be strengthened in the increasingly sophisticated digital era, while the quality of Islamic education will be improved through the best integration of AI technology.

Method

Library research methodology is used in this study. Library study is a series of tasks involving collecting information from the library, reading, taking notes, and processing research materials. To obtain a theoretical basis for the problem being studied, a literature review can also examine various reference books and previous comparable research findings. Studying in the library also refers to collecting information by reading books, articles, notes, and other reports on the problem you want to solve. Meanwhile, theoretical studies, references, and other scientific materials related to the culture, values, and norms that emerge in the social environment being studied are what Sugiyono defines as literature studies.

This research is descriptive qualitative. The purpose of descriptive research is to explain precisely and methodically the facts and characteristics of the object or subject being studied (Darmadi, 2011). Research that offers a comprehensive explanation of the use of applications and examines how society utilizes technology to memorize the Qur'an is known as descriptive research. Literature studies are used as a method of data

collection. Researchers reduce data, present data, and conclude part of data analysis techniques to collect correct data.

Results and Discussion

Tarteel App

An Indonesian IT startup has created the Qur'an Tarteel AI application powered by artificial intelligence (AI). Through various techniques, AI can improve the effectiveness and efficiency of the education system.[13]. With the help of various superior features of this application, users can more easily and interestingly understand and learn the Qur'an. The creation of Tarteel is intended to strengthen the bond between Muslims and the Qur'an.

Tartil (Arabic: ترتيل) is a form of rule in reading the Al-Qur'an which means reading the Al-Qur'an slowly, paying attention to clear and correct tajwid and makhraj. Reading the Qur'an with tartil is a command from Allah for Muslims as Allah says: "And read the Qur'an with tartil." (QS. Al-Muzzammil: 4).

أَوْ زِدْ عَلَيْهِ وَرَتِّلِ ٱلْقُرْءَانَ تَرْتِيلًا

Meaning: Or more than half of that. And read the Qur'an slowly.

Interpretation of Jalalain: (Or more than one-half) up to two-thirds; The meaning contained in the Au pronunciation shows the meaning of being able to choose. (and read the Qur'an) establish your reading (slowly).

The Tarteel AI Quran application was created by several Muslim programmers, according to the verse quoted above. These programmers include Mohamed Omran, a software developer at Fix Solutions, Ali Abdallah, a mechanical engineer at Tesla, software engineer BaHaa Jr., and PhD candidates at Stanford University Abu Bakar Abid and Ali Abid.

The first Quran application that uses AI tools to engage in reading and identify errors is Tarteel. An additional tool to improve Quran memorization is Tarteel which has several interesting and practical features. The purpose of this application is to help Quran memorizers expand their knowledge by understanding the verses and helping them in memorizing and muroja'ah. According to previous research conducted by[14] and[15], The majority of Tarteel applications have a positive impact on increasing the muraja'ah of Qur'an memorizers. The use of this application can help Quran memorizers to be easier and more effective in maintaining their memorization. AI through Tarteel has the potential to significantly enrich learning effectiveness. This study introduces a new paradigm in the development of responsive

and adaptive sorogan methods while providing significant conceptual contributions in utilizing the potential of artificial intelligence (AI) technology. Another opinion states that the Tarteel application also has a negative influence that causes discomfort to its users.

Tarteel Advantages

Tarteel combines neural networks and natural language processing, two subfields of artificial intelligence, synergistically, according to the findings of an investigation conducted on the application's features. Recite, Memorize, and Search the Qur'an are just some of the benefits highlighted by the creators of the Tarteel program.

Recite (Read)

The recite feature facilitates users to be able to adjust directly in real-time related to the reading of the Qur'an which is supported by the latest artificial intelligence technology, namely the latest Artificial Intelligence. This algorithm accurately monitors every word read by the user and also highlights the text being pronounced. This feature is very useful in situations where users want to monitor their reading position more precisely, as well as follow the imam or audio recording more efficiently. This feature also focuses on makhraj and tajwid, namely the phonetic and phonological aspects in the pronunciation of verses.

In addition, this feature also has the ability to record mistakes made by users, so that users can easily identify and understand aspects that need to be improved in their pronunciation. This feature also provides examples of audio readings from Qari who have proven their expertise in reading the Qur'an.

Memorize (Memorizing the Quran)

When someone hears someone reciting the Quran or listens to an MP3 recording, they may be able to identify the verses they remember, such as Juz 30 and Juz 29. However, this recognition may not always be complete. Few will forget which verse and which chapter. In other cases, you will often need to read the Quran to choose which verse to read next when reviewing memorization. The Tarteel program makes it easy to study and practically memorize the Quran. This software only displays the words that the user reads; it hides the words that are not spoken. This function is very helpful in helping users memorize the Quran without erasing previously learned verses and preventing them from reading verses that they have not mastered.

Tarteel AI makes it easy for users to review and practice memorizing the Quran through this platform. By avoiding mistakes

and ensuring that every word is pronounced correctly, this function is very important in helping users learn the Quran methodically and concentratedly.

Search the Qur'an (Searching for Qur'an Verses)

Tarteel is an application that recognizes verses that are read using artificial intelligence (AI) to hear the Quran being read. The program can search for verses that match what is read by using a speech-to-text model to translate speech to text. The program will provide words that are comparable to the searched term or will end the search if the program determines that it has not found a match. Thanks to the simplicity of the Tarteel AI application, users can quickly help in searching for verses and provide a complete list of searched words in each verse of the Quran. Next, the search results will appear in the form of a list of verses and chapters of the Quran.

In the Tarteel application, it is easy for users to search for verses of the Qur'an in an easier way, namely by directly recording the verses that users read. Accuracy of reading is also required, if the user's pronunciation is correct, then the writing of the reading that we recorded will appear. After that, the results of the search for verse fragments in several letters will appear which are displayed in the compilation of the verse list. In addition to the verse search feature (search engine), this application can make it easier to memorize the Qur'an by recording it. This simple application can be applied or utilized by Al-Qur'an Tahfidz Teachers or tahfidz students to repeat memorization.

Apart from being a search tool, every verse found on Tarteel is accompanied by a translation that can be translated into various languages. Apart from that, explanations of verses are also available, referring to famous tafsir books such as the tafsir of Ibn Kathir, Al-Baghawi, Al-Qurthubi, and others. Even though there are limitations to interpretations that use languages other than Arabic, Tarteel still provides in-depth insight into the meaning of the verse and its context.

The Tarteel program offers several interesting and comprehensive features. The process of memorizing the Qur'an is assisted by several tools offered by Tarteel, such as Tajweed, Audio, Memorization, Muraja'ah, and Quiz. Because Tarteel has colored tajweed, it makes it easier for readers to read the Qur'an accurately and precisely. Tarteel offers a variety of audio recordings by famous reciters that can help users improve their understanding and memorization of reading. In terms of memorization, Tarteel gives customers the

option to record their sessions and play them back later to track their progress. With Tarteel's muroja'ah feature, users can repeat their memories methodically. Interactive tests are available on Tarteel to help users understand and maintain the memorization of verses.

Tarteel App Installation

Here's how to install the Tarteel application which is available on Android or iOS:

a. First, you can open the App Store or Play Store.

b. Then you can search for the Tarteel application with the word "Tarteel" in the search.

c. Then download the application.

d. If you have downloaded the Tarteel application, you will be directed to register a Tarteel account.

e. The Tarteel application is now ready to use.

How to Operate Tarteel AI Application

Here's how to operate the Tarteel Application:

Figure 1. Main Menu

In the main menu that is first displayed by the application. You can choose the features that have been provided by the application as in the image above the right part of the image that has a red circle mark contains the menus provided by the application.

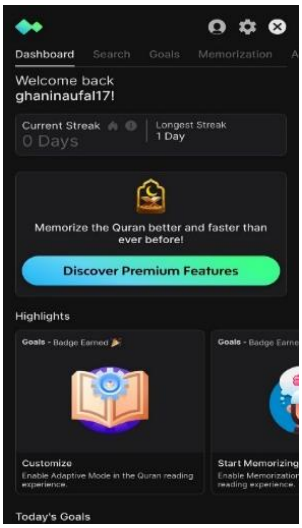

Figure 2. Dashboard

Figure 2 is a dashboard or menu. In this menu, there are many features, namely, "Search" From the search feature you can search for letters or verses and words in the Quran.

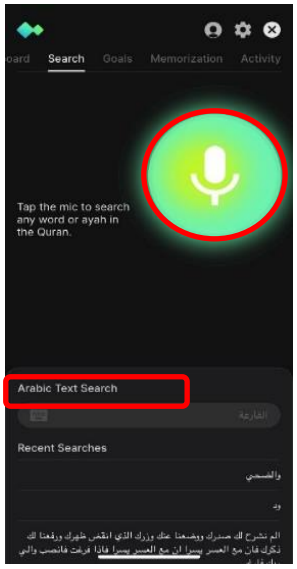

Figure 3. Verse Finder Audio

In the image above which is circled in red, we can search for verses or letters by recording our audio, provided that the audio recording is in accordance with the makhorojul word, and we can also search via Arabic text as in the image marked above.

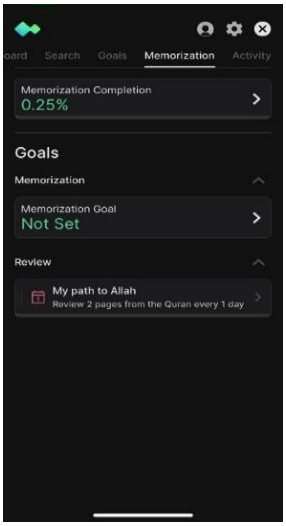

Figure 4. Memorization Target Feature

In the image above is a memorization feature where we can target memorization and how wrong we are in memorizing or reviewing. That way, we can target our memorization easily or find out our shortcomings in memorizing.

Figure 5. Murojaah feature

In the picture above on the right is a method or way to memorize murojaah by recording our voice then this Tarteel application will automatically correct our reading by displaying the verse after being read or it can also be done by clicking the sign below which the researcher has marked in red, and the picture on the left that the researcher marked is to correct per word, while the yellow circle in the picture on the left shows correcting by verse. That way, memorization is easy or more thorough by using this application.

Figure 6. Activity Features

The picture above is an activity feature that helps memorizers of the Quran more easily control their memorization and can make it easier to target memorization or murojaah. Those are the various operations of using the Tarteel application that are simple and easy to understand, hopefully, with this application, memorizers of the Quran will be more enthusiastic about maintaining their memorization.

Conclusion

Quran memorization software plays a vital role in helping the learning process in our ever-changing world. Quran learning can be faster and more enjoyable with the help of effective learning resources. A tech startup in Indonesia has created Tarteel AI, a Quran application that utilizes artificial intelligence. With the help of this program, users can learn and understand the Quran in a contemporary way easily and interestingly thanks to its various superior features. Tarteel AI also can track the user's progress in memorizing each verse and surah, help create the best study schedule, and suggest learning strategies based on specific needs. Some of the advantages mentioned by the Tarteel application developer are Reciting, Memorizing, and Searching the Quran, which can be understood as reading, memorizing, and searching for verses of the Quran. To help Quran memorizers carry out or preserve their memorization as well as possible, the Android or iOS-based Tarteel program is very helpful in the millennial era. Verses that are easy to learn and can be found easily thanks to the help of the application's capabilities. This program aims to encourage individuals who memorize the Quran to stick to it and be able to memorize it easily practically and efficiently.

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