EXPLORING THE POTENTIAL OF MULTI-AI (ARTIFICIAL INTELLIGENCE) INTEGRATION AS AN ISLAMIC EDUCATION LEARNING MEDIA INSTRUMENT

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Abstract

The emergence of Artificial Intelligence (AI) in digital technology is seen as a symbol of progress, convenience, and intelligence, but also perceived by some as a source of concern, anxiety, and fear. However, AI can be optimized to support human tasks, including developing learning media for Islamic Religious Education (PAI). Many AI tools are freely accessible, making them highly potential educational resources. This study aims to explore the potential of AI as a tool for developing learning media in the context of Islamic education. This research employs a library research approach, analyzing data through data reduction, display, and conclusion drawing. The findings reveal several AI-based tools suitable for developing learning media, including Google Sites, Quizizz, ChatGPT, and DALL-E 2. Google Sites can be used to create customizable, user-friendly educational websites. Quizizz is an interactive quiz platform, featuring real-time scoring and engagement tools. ChatGPT functions as a medium for brainstorming, providing feedback, and enhancing student learning, though its use requires proper guidance to avoid misuse. Lastly, DALL-E 2 can generate visual content based on textual descriptions. These four tools can be integrated

within a single platform – Google Sites – to create a cohesive and interactive learning experience.
Keywords: *Integration, Learning Media, Artificial Intelligence.*

Abstrak

Kehadiran Artificial Intelligence dalam teknologi digital tidak hanya direspond sebagai suatu kemajuan, kemudahan, kepintaran, namun juga dianggap sebagai musuh yang mengundang kekhawatiran, keresahan dan ketakutan bagi manusia. Meski demikian, AI dapat dimaksimalkan untuk membantu pekerjaan manusia termasuk dalam pengembangan media pembelajaran Pendidikan Agama Islam (PAI). Terlebih tools artificial intelligence dapat diakses secara free sehingga berpotensi untuk digunakan oleh tenaga pendidik. Penelitian ini bertujuan untuk mengeksplorasi potensi AI sebagai intrumen pembuatan media pembelajaran dalam pendidikan agama Islam. Pendekatan yang digunakan pada penelitian ini ialah library research. Analisis data menggunakan reduksi data, display data, dan penarikan kesimpulan. Hasil penelitian menunjukkan sejumlah tools kecerdasan buatan yang dapat dimanfaakan dalam pengembangan media pembelajaran ialah Google site, Quizizz, dan ChatGPT. Pemanfaatan google site dapat digunakan untuk membuat website dengan tampilan yang sederhana dan dapat dicustom sesuai dengan materi ajar yang akan dikembangkan. Quizizz dijadikan sebagai media berupa kuesioner interaktif dengan berbagai fitur kreatif seperti memberikan peringkat secara live ketika kuiz berlangsung. ChatGPT sebagai alat untuk brainstorming ide, memperoleh feedback, mempelajari hal baru bagi siswa namun harus disertai ketegasan dari guru agar tidak curang dalam menggunakannya. Tools tersebut dapat diintegrasikan dalam satu wadah yakni di dalam google site.

Kata kunci: Integrasi, Media Pembelajaran, Artificial Intelligence, PAI.

A. Introduction

The presence of Artificial Intelligence (AI) in the realm of digital technology is a big milestone change in the global landscape (Smith & Fotheringham, 2022; Jingyi et al., 2020). AI is not only seen as a promising technology efficiency and intelligence artificial, but also give rise to spectrum significant unrest and worry among public (Ogata et al., 2024). AI has raised various deep questions, stimulating extensive ethical and social debate about its impacts on society, the environment, and human employment.

Along development technology, the use of AI is increasingly expanding, with possible impact felt in various aspect life man (Lenat &

Durlach, 2014) . In context education, there is interesting fact, that AI is not only can influence method We learn and teach, but also can become useful solution in development material learning, esp in context of Islamic Religious Education (PAI). More further, necessary noted that various AI tools can accessed in a way free, enabling educators for take advantage of it without obstacle significant financial.

However thus, with growth Here, various things also appear necessary challenges and problems solved (Al-Zyoud, 2020). Especially, not yet There is deep understanding about potency actually deep AI context making PAI learning media. Besides that's uncertainty about How integrate various AI tools, such as Google Site, Quizizz, and ChatGPT, in one cohesive platform is a necessary research gap explored more continue. With Thus, research This aim for answer various question crucial this and fill gap existing knowledge.

Face dynamics this, research This propose approach innovative that will give contribution positive in development of PAI learning media. Proposed concept is Multi-AI Integration, ie use various tool intelligence artificial such as Google Site, Quizizz, and ChatGPT in One integrated container. In context this, Google Site will possible simple and customized website creation with teaching materials, Quizizz will role as a quiz platform interactive, and ChatGPT will used for facilitate brainstorming, feed back and learn more deep. This integration own potency for give solution maximizing holistic benefits of deep AI Islamic religious education, at the same time give more views clear about impact positive AI in the future. All That will discussed and explained in concept offered by research in the article entitled "Exploring the Potential of Multi-AI (Artificial Intelligence) Integration as an Islamic Education Learning Media Instrument"

B. Research Methodology

The method in this research is a qualitative method with a library research approach. The data collection technique used is to record data taken from various sources from written materials and then identify contextual evidence. Data processing in this research carried out critical analysis, comparison and interpretation of various search results from primary and secondary sources. To make library research easier, of course a researcher is required to know and understand the organization and work procedures of the library. This is important to make it easier to obtain and access the materials or resources needed (Nursapia harahap, 2014) .

Library research is a type of research used in this research, namely research in which data is collected and compiled from various types of literature. *Library* research is research whose aim is to combine

information and materials from sources available in libraries such as books, journals, documents, notes or reports. (Saiful Annur 2014). This research refers to books that are related to the problem at hand. To obtain data in this research namely by collecting data, collecting library materials, namely by reading, understanding books, magazines and other sources, especially those related to *Artificial Intelligence* in Islamic Religious Education from several sources.

There are several definitions regarding this library research. (Mirzaqon. T, A and Budi Purwoko 2017) put forward several definitions of library research from several experts, namely:

1. Library research is a study used to collect information and data with the help of various kinds of materials in libraries such as documents, books, magazines, historical stories, etc. (Mardalis: 1999).
2. Library research is a study that studies various reference books and the results of similar previous research which is useful for obtaining a theoretical basis regarding the problem to be researched (Sarwono: 2006).
3. Library research is a data collection technique by reviewing books, literature, notes and various reports related to the problem you want to solve (Nazir: 1988).
4. Literature research is a theoretical study, references and other scientific literature related to culture, values and norms that develop in the social situation being studied (Sugiyono: 2012).

Meanwhile (Khatibah, 2011) states that library research is an activity carried out systematically to collect, process and conclude data using certain methods/techniques in order to find answers to problems faced through library research. Meanwhile (Danandjaja, 2014) stated that library research is a method of systematic scientific bibliographic research, which includes collecting bibliographic materials related to research targets; collection techniques using library methods; and organizing and presenting data.

In looking for reading sources, a researcher must be selective because not all of them can be used as data sources. According to Sumadi Suryabrata, there are at least criteria that are usually used to select reading sources, namely (a) the principle of recency and (b) the principle of relevance. Except for historical research, it is necessary to avoid using old reading sources and choose more recent sources. Old sources may contain theories or concepts that are no longer valid, because their truth has been refuted by newer theories or the results of later research. (Komidar 1995)

So, library research activities are collecting, reading and recording literature/books. Apart from that, you must also pay attention to:

1. steps in researching literature,

2. research methods in order to collect data, read and process library materials and equipment that must be prepared for the research,
3. Its use makes it easier for researchers to obtain data. (Milyasari, Asmendri, 2020)

Therefore, in order to obtain data from books and other literature that fulfills the two principles above, carefulness, perseverance and diligence are required in searching for primary and secondary data.

C. Findings
Multi AI in Islamic Religious Education Learning

Artificial intelligence is a part of computer science that studies computer machines and can do work like humans do, even better than humans. The intelligence referred to in this case is intelligence like that of humans, so that a computer or certain device can take action to solve problems even with thinking and reasoning like humans. According to John McCarthy, AI is about knowing and modeling human thought processes and designing machines so that they can imitate human behavior. Apart from that, the term AI is also attached to any machine that exhibits properties related to the human mind, including learning, reasoning, and self-correction. The main characteristic of AI is its ability to rationalize and take action with the best chance of achieving goals (Hamid et al., 2022) .

One of the importance of AI in Education is that it can play a role in promoting personalized learning. AI has also changed the way teachers teach and students learn. this can form a personalized learning plan according to students' learning needs and situations, providing an in-depth learning experience and can help improve students' learning abilities. Then it can also reduce the burden on teachers and make teachers focus more on humanistic concerns at this time. Most of the teacher's time is only spent correcting homework and exam papers. This repetitive task can take up teaching time. Intelligent assessment systems, intelligent tutoring systems, educational robots and other AI can help teachers in completing many daily tasks mechanically (Hamid et al., 2022) . In this research the author relates several AI applications, namely; google site, qiuzizz, and ChatGpt.

Google site is a platform that can be used as an effective and efficient learning medium to develop students' abilities. Google Site itself allows teachers or instructors to create websites easily and organize learning materials in a structured manner that is easy for students to understand. The Google site itself can enable collaborative use, not only with the material being read but also displaying the material in the form of colored text, pictorial material, video and audio. By combining various forms of media, students can become very interested in the material being taught, and

learning will become of higher quality, which can improve student learning outcomes.

The advantages of using the *Google Site application* include: uploading material easily, being able to save the syllabus, being able to share assignments, being able to provide announcements and download and view students. The use of *Google Site* media is an alternative used for online and offline learning, with the media providing opportunities for students to repeat learning at home (Wulandani et al., 2023) .

In Moral Principles Lessons, the Google site can be used to develop students' morals effectively and efficiently. By watching animated videos and reading them on material about believing in the Messenger of Allah SWT. Students can easily understand the material provided and can also apply it in everyday life. So this is an alternative for teachers so that learning is varied and helps in conveying material to students so they don't feel bored when they start learning (Wulandani et al., 2023) .

In this way, the Google site can be used as a forum for providing learning materials on TAKWAI (Creative Children's Technology with an Islamic Religious Insight) media by providing convenience for teachers who have low competence in using technology. Even the Google site can link various other media such as YouTube, Google Drive, Google Forms and so on, so that if the teacher's ability to make videos is felt to be lacking then they can search for it via YouTube media and link it to the Google site. Then Google Forms can be used as a place to send student assignments which will later be collected on Google Drive (Azhara et al., 2023).

Quizizz learning media is an online-based application for creating games in the form of interactive quizzes that can be used in learning in class and outside of class. This application can of course be accessed via the web. In Quizzizz Media, learning is student-centered, so that students can be active in completing learning well. Educational games consist of several components such as sound, graphics, graphics, video and animation. The advantage is that there are components that can improve memory, such as animation, so that students are able to store and collect material for a longer period of time than using conventional educational methods (Agama et al., 2021) .

Teachers can generally use quizizz so that students don't get bored easily. This application is needed to see the extent to which students understand the material. Apart from its easy use and fast processing of results, this application is suitable for supporting learning in the cognitive aspect, so that students are motivated in learning, this strategy can even increase student activity in learning. This quiz app has features programmed by designers and is designed to be easy to use. It is contained in it (Kamajaya et al., 2022) .

quizizz media specifically in PAI subjects, teachers prepare questions that will be given to students via the *qiuzizz application* and also prepare material with videos or PPT. This makes student activities in learning more active and enjoyable and supports student learning success. Because the aim of using this media is so that students do not get bored easily during learning, and can support the learning process both online and offline (Pinrang et al . al., nd) .

The application of *qiuzizz* in PAI learning with material on honest behavior, Trustworthiness, and Istiqomah is able to increase deeper knowledge competency and make memory stronger. This learning is characterized by discussions together and Susana makes learning more enjoyable without seeming tense. And Qizizz itself as a learning medium can be used as an assessment tool in Islamic religious subjects. Because so far exams have used paper, using media for formative and summative assessment activities is very helpful in practical terms, everything becomes easier and can be done with only the Android that the student has. However, sometimes students are hampered by signals that can hinder the learning process. So a stable signal is needed to be able to participate in learning effectively (Hidayah, 2021).

With Islamic religious education learning that uses ChatGPT to support teacher activities, it can be done in planning and evaluating learning and other learning activities. Meanwhile, for students, using ChatGPT can provide benefits in triggering creativity and completing tasks in searching for ideas, language and library resources. However, using ChatGPT in Islamic Religious Education learning faces challenges. The accuracy of the information presented from ChatGPT depends on the source used. Does not guarantee that the answers or information provided will be completely accurate with religious beliefs. Apart from that, academic ethics and morals are very important in using ChatGPT so that there is no technological manipulation or even dependence on technology without having critical reasoning power (Muttaqin, 2023) .

Chatgpt can be used as a learning resource where you can play a collaborative role in learning to enrich the material. Based on the results of Setiawan & Lutfiyah's research, using ChatGPT in learning can improve students' writing skills, where students can produce more words in a very short period of time. And it can also be integrated with the Canva application to create percentage media in class easily and quickly (Simanungkalit et al., 2023).

Apart from that, chatgpt provides positive potential in enriching student learning experiences. However, it is important for students to maintain a digital presence by paying attention to indicators of digital civilization patterns, including maintaining data privacy and security,

avoiding illegal or harmful content, and being aware of the limitations of ChatGPT. By considering ethics and morals in digital civilization, the application of chatgpt in Islamic religious education can provide positive benefits and support the development of responsible digital civilization (Amala et al., 2023) .

The Concept of Multi-AI Integration in PAI

Application of AI in education has been explored in a broad way in various domains, and its potential has been documented in the scientific literature. AI integration has proven to increase efficacy inner teacher self-teaching (Zekaj, 2023) .

ChatGPT can also use for enriching practice teaching, reflecting with test methods existing assessments For validate room scope, design, and capabilities. (Michel-Villarreal et al., 2023). The application ChatGPT, which seems to be not limited (writing essays in hundreds of languages, writing speeches with the style of famous people, summarizing documents, writing code, learn from previous exchanges, answering trivia questions, passing legal and medical tests, etc.), has caught the world's imagination. They is source from the hype cycle of emerging technologies (Rudolph et al., 2023). ChatGPT can used as effective tool in teaching and learning Because his abilities For reject a request that does not appropriate, challenging no response accurate and tracking what is stated user previously in chat For question advanced (Ivanov & Soliman, 2023).

Furthermore, learning media creative AI-based can using a *gamification* model (Kannan & Munday, 2018) like Quizizz. The Quizizz function can used as a medium for do test to students. For example, starting with pre-test. Pre-test is used to evaluate and measure the ability of students. This done For determine mark base before do exam or more tests deep (Pense et al., 2023). In matter this Quizizz works as a tool that will provide pre-test questions with draft quiz. The use of AI in the form of Quizizz potential increase creativity and elimination saturation student when study in class because Quizizz is a learning model based *gamification.*

Gamification components, chattgpt and learning media elements other can loaded and integrated inside One receptacle namely Google Sites. Google Sites can used for make source Power structured learning. Teachers can organize information, material lessons, and links to source external with easy. This help student in access and understand material with more good. Google Sites is an intuitive and free tool, which makes it possible educators and students for create a website with fast. This thing can help in strengthen experience learning, improving Skills technology, and facilitating collaboration inside and outside class. Teachers can save time by using Google Sites, because they do not need to use up time for studying or

looking for complicated codes. They can quickly create a suitable website without learning and focus on the content they want to share with students.

One implementation from multi-AI can be applied in one receptacle, namely Google Sites. Following is a draft deep use of multi-AI eye Islamic Religious Education and Character lessons with specific to the material Work Hard and Responsible. The book used is one issued by the Ministry of Religion in 2019 for class XII SMA/SMK.
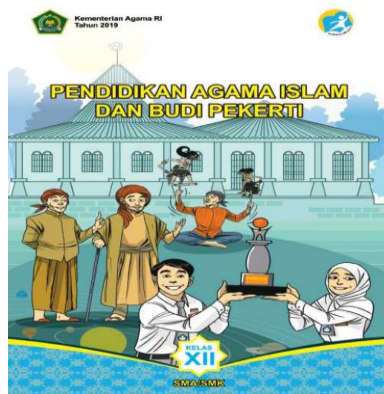

Figure 1. Book lessons used as example for implement draft multi AI.

Multi-AI Integration (Multi-AI Integration) is concept where some system intelligence artificial (AI) or different AI components combined and working together for reach objective certain. Multi-AI integration aims for combine strength and ability from various AI in order to be able to Work more efficient, improve Performance, and deliver more solutions comprehensive in various context. Following This is explanation from demonstration multi-AI concept based on google site, chatGPT, Quizizz, as well component learning others.
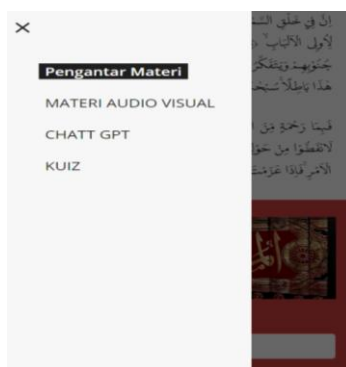

Figure 2. Design components for using the Google site that contains it introduction material, audio visual material, chatGPT, Quiz.
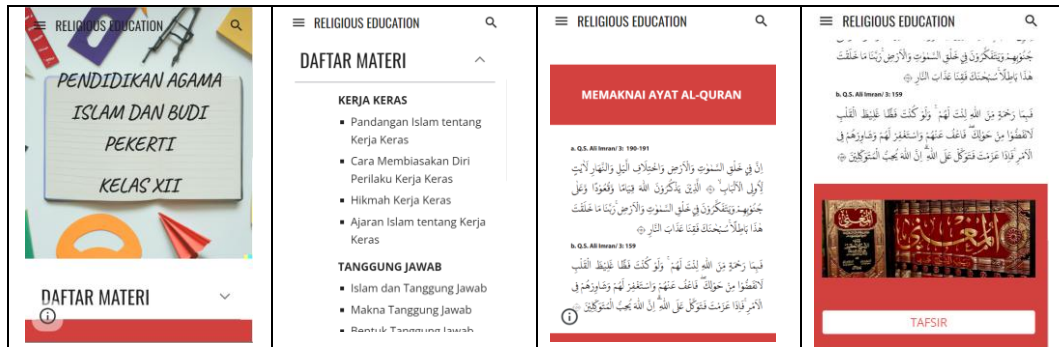
Figure 3. Display The beginning of the Google site contains introduction material learning.
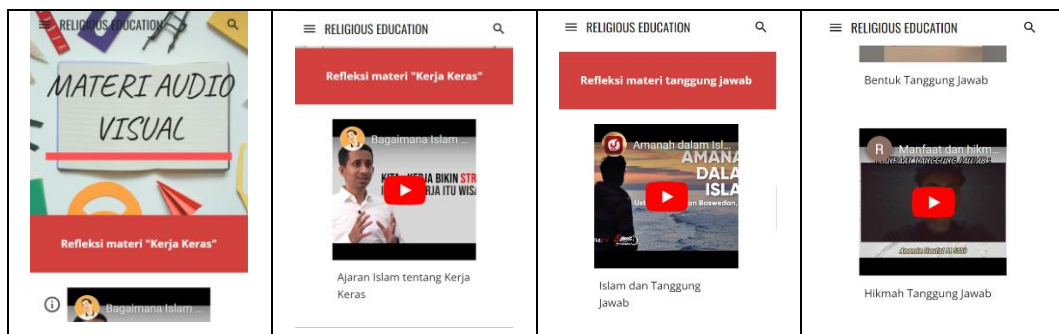

Figure 4. Display audio visual media components integrate learning videos based YouTube.

Figure 5. Display integration *research project* works as assignment for student with use chatGPT as an idea exploration tool.
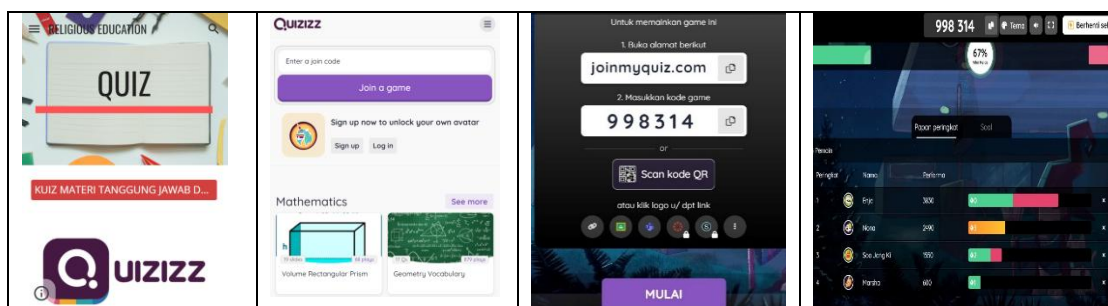
Figure 6. Quizizz integration to in google site it works as material test and evaluation learning students.

Design for using this Google Site designed for give experience learning interactive and informative. Appearance The beginning of the Google Site contains introduction material learning, giving comprehensive introduction to topic to be studied. The audio visual media component integrates learning videos YouTube based, possible student For visualize draft with more good. Besides that is, integration project study works as assignment for students, promote understanding more concept in ChatGPT used as tool helpful exploration of ideas student in develop thinking creative and solving problem. Besides that, there is also a possible Quiz component measurement understanding student to material. With combination this, this Google Site design create experience diverse, structured and interactive learning for students.

F. Conclusion

The role of Islamic Education teachers can apply several learning media in accordance with the development of today's technology. Teachers can utilize AI (Artificial Intelligence) technology, one of which is: Google Site, Quizizz, and Chatgpt as learning media that can provide effectiveness and efficiency in the learning process of Islamic Religious Education. Technology will not replace the role of a teacher, but with technology, the learning process and teacher administration will lighten the work. Teachers remain educators in the character of students, especially in Islamic Religious Education.

The challenge in Islamic Religious Education must prepare graduates who are able to compete in the world of Artificial Intelligence technology, starting from skills, adaptability, and intelligence. So the importance of education can prepare and improve important values. The concept of AI integration includes the use of google sites, its function as a container that accommodates various other AI components that have the potential to be used as learning instruments. The use of quizizzes is used to serve as an instrument in measuring and evaluating student abilities. Finally, the use of

ChatGPT as a medium to explore students' ideas during simple research assignments.

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