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## Development of Google Sites Web-Based Learning Media in Improving The Effectiveness of Islamic education Learning In Schools

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### Article Info

### Abstract

**Keyword:**  
*Learning*  
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*Learning*  
*Effectiveness*

The rapid development of information technology presents numerous opportunities for the world of education to utilize digital media as an effective and efficient means of learning. One of the most accessible, practical, and multifunctional media is Google Sites, a free website builder platform that can be used as a learning medium. This study uses a literature review method with a descriptive-analytical approach. The literature review was chosen because the study focuses on collecting, analyzing, and synthesizing various relevant reference sources related to the development of web-based learning media, particularly Google Sites, in improving the effectiveness of Islamic Religious Education learning. The initial process was carried out by searching for scientific sources related to web-based learning media, particularly Google Sites. The search was conducted through national and international journals, books, proceedings, and relevant scientific works (thesis, dissertation). The selected literature had the following criteria: (a) published between 2021 and 2024 to ensure recency, (b) directly discussing web-based learning media or Google Sites, and (c) having relevance to the context of ISLAMIC EDUCATION learning or education in general. Sources that did not meet these criteria were excluded from the analysis process. The selected literature was analyzed by grouping themes into several main categories, namely: (a) the concept and definition of Google Sites, (b) web-based learning, (c) the ADDIE development model in learning media, and (d) the advantages and disadvantages of Google Sites in educational implementation. After the analysis process, a synthesis was carried out by integrating findings from various literatures. The results of this synthesis are presented in the form of a structured narrative description, then used as a basis for building arguments regarding the effectiveness of Google Sites-based learning media to improve the quality of Islamic Religious Education learning in schools. By using a literature review, this article not only presents theory, but also compares the results of previous studies, so that a more comprehensive understanding is obtained regarding the potential and challenges of using Google Sites as a web-based learning medium.

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## 1. INTRODUCTION

The rapid development of information and communication technology has had a significant impact on various aspects of life, including in the world of education. The digital era demands a transformation in the learning process that was previously conventional towards more modern, interactive, and flexible learning. The use of digital-based learning media is one of the effective solutions to answer today's educational challenges.

One form of digital media that can be used in learning is web-based media, such as Google Sites. Google Sites is one of the free services from Google that allows users to easily create and

share websites without the need for programming skills. With a simple yet functional interface, Google Sites can be leveraged by teachers to create engaging, interactive, and integrated learning media with various other Google services such as Google Drive, Google Forms, YouTube, and Google Docs.

In the context of Islamic Religious Education learning, web-based learning media such as Google Sites can be an effective tool to increase student understanding and engagement. ISLAMIC EDUCATION learning, which has often been considered monotonous and less interactive, can be packaged to be more interesting and relevant to the needs and characteristics of today's digital generation. This medium also allows students to learn independently outside of school hours so that the learning process is not limited to space and time.

However, the use of web-based learning media is still not optimally utilized by most Islamic education teachers. There are still limitations in technology understanding, lack of training, and lack of motivation to develop digital learning media. The use of digital technology can significantly increase the effectiveness of learning, both in terms of delivering materials, strengthening concepts, and evaluating student learning outcomes.

The effectiveness of learning can be measured from several indicators such as student involvement in the learning process, increased understanding of the material, and students' ability to apply religious values in daily life. Google Sites-based learning media, with its interactive features, has the potential to meet these indicators. Through attractive design, multimedia integration, and ease of access, students can learn in a more fun and meaningful way.

Therefore, it is important for educators, especially Islamic education teachers, to master and implement this technology in the teaching and learning process. Thus, the development of Google Site web-based learning media is not only a necessity but also an important strategy for improving the quality and effectiveness of Islamic education learning in schools.

## **2. METHODS**

This study uses a literature review method with a descriptive-analytical approach. The literature review was chosen because the study focuses on collecting, analyzing, and synthesizing various relevant reference sources related to the development of web-based learning media, particularly Google Sites, in improving the effectiveness of Islamic Religious Education learning. The initial process was carried out by searching for scientific sources related to web-based learning media, particularly Google Sites. The search was conducted through national and international journals, books, proceedings, and relevant scientific works (thesis, dissertation). The selected literature had the following criteria: (a) published between 2021 and 2024 to ensure recency, (b) directly discussing web-based learning media or Google Sites, and (c) having relevance to the context of Islamic education learning or education in general. Sources that did not meet these criteria were excluded from the analysis process. The selected literature was analyzed by grouping themes into several main categories, namely: (a) the concept and definition of Google Sites, (b) web-based learning, (c) the ADDIE development model in learning media, and (d) the advantages and disadvantages of Google Sites in educational implementation. After the analysis process, a synthesis was carried out by integrating findings from various literatures. The results of this synthesis are presented in the form of a structured narrative description, then used as a basis for building arguments regarding the effectiveness of Google Sites-based learning media to improve the quality of Islamic Religious Education learning in schools. By using a literature review, this article not only presents theory, but also compares the results of previous studies, so that a

more comprehensive understanding is obtained regarding the potential and challenges of using Google Sites as a web-based learning medium.

### **3. RESULT AND DISCUSSION**

#### **Definition of Google Sites**

Google Sites are a type of product from Google as a tool for creating a website. In general, Google Sites are an application that contains information that is systematically compiled and can be used by individuals and groups. According to (Selviana et al., 2024) Google sites can be easily used by users, especially for online learning because they are easy to create, operate, manage, have an attractive appearance, a wide range of features are quite complete and the use of language is simple. Meanwhile, according to Musfiqon (quoted in Syakiroh, 2021) Google Sites is a product made by Google as a tool for creating a site, Google Sites is very easy to use, especially to support learning by maximizing features such as Google Docs, sheets, forms, calendars, awesome tables, and so on.

#### **Web-based Learning Media**

Web-based learning is a learning activity that utilizes website media (web) that can be accessed through the internet network. According to Batubara (Selviana et al., 2024), Web-based learning is a technological learning innovation using an internet network that involves various electronic media and learning methods. Meanwhile, according to Nengsih (quoted in Ningsih & Imam Farisi, 2023), Web-based learning is one of the flexible delivery systems to be developed, especially to create student learning independence.

Various forms of web services can be used as media or learning resources, one of which is the Google Sites feature. Google Sites is one of the web-based platforms owned by Google. Google Sites appeared in 2008. Google sites can be used as a learning medium that can attract students' interest in learning.

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#### **Google Sites Web-Based Learning Media Development**

The development model in this paper uses the ADDIE (Analysis, Design, Development, Implementation, and Evaluation) development model. The development procedure with the ADDIE model is described as follows.

##### **1. Analysis Stage**

At this stage, a needs analysis is carried out by conducting observations and interviews with several parties, including: 1) Student Needs Analysis, Student Needs Analysis is carried out to review the needs needed by students, This process involves collecting data about student profiles, their learning styles, their level of understanding of the material, and the challenges or obstacles they face in understanding the subject matter. 2) Analysis of student characteristics is a process to identify and get to know students in terms of needs and characteristics. 3) Material Analysis, Adi (quoted in Fikra, 2024) Learning material analysis is the process of identifying, collecting, and analyzing the information needed to develop learning materials that include basic competencies and learning objectives.

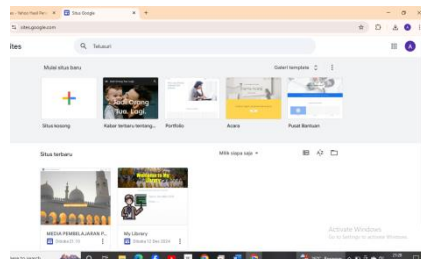
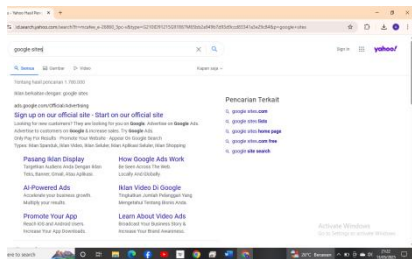
## 2. Design Stage

This stage is a continuation of the analysis stage. At this stage, the researcher designs or designs Google Sites-based learning media products for Islamic Religious Education subjects. At this stage, the design of the concept or overview of the creation of Google Sites-based learning media is carried out as a foundation for the development process in the next stage.

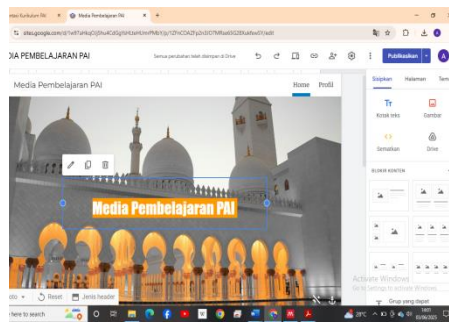
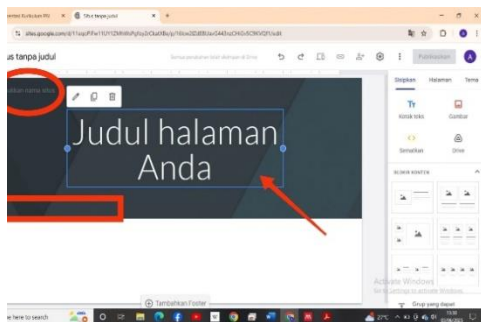
## 3. Development Stage

At this stage, the development of Google Sites-based learning media in Islamic Religious Education subjects has begun, by the design that has been made previously. Some of the steps in creating Google Sites-based learning media include:

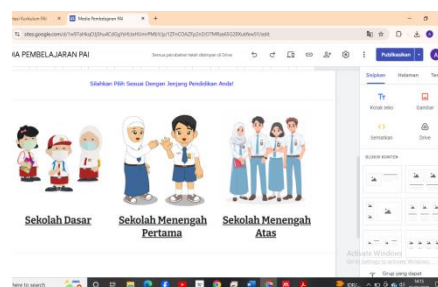
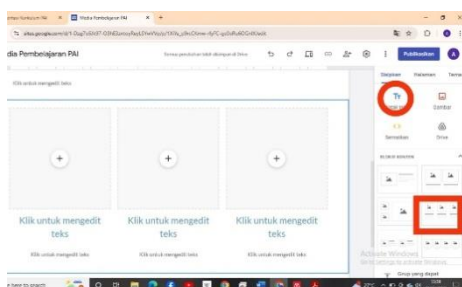
- 1) Type your browser or browser "Google Sites", Please select Google Sites, once opened please click the plus sign.



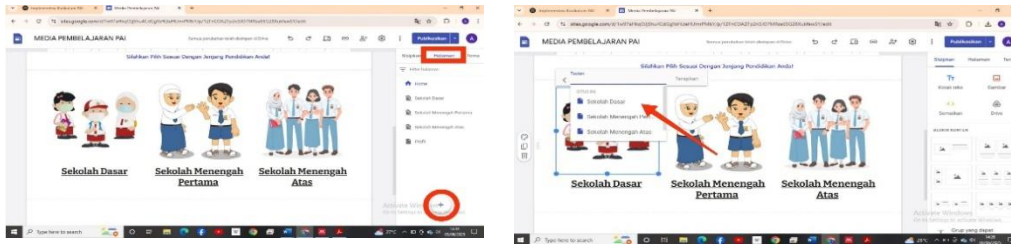
- 2) After that, please enter the logo and web name (round shape), image (source: Pexels.com) web view (rectangular shape), and page title (arrow shape).



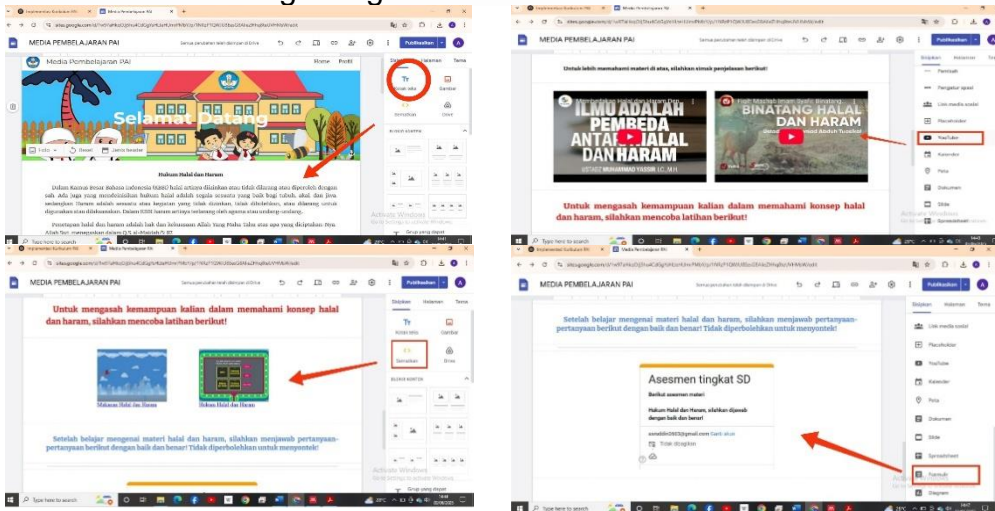
- 3) Next, below it, we add some pictures (box shapes) (source: bamboozle.com; https://pngtree.com; https://id.pinterest.com) and text (round shapes) to guide children to access the subject matter.



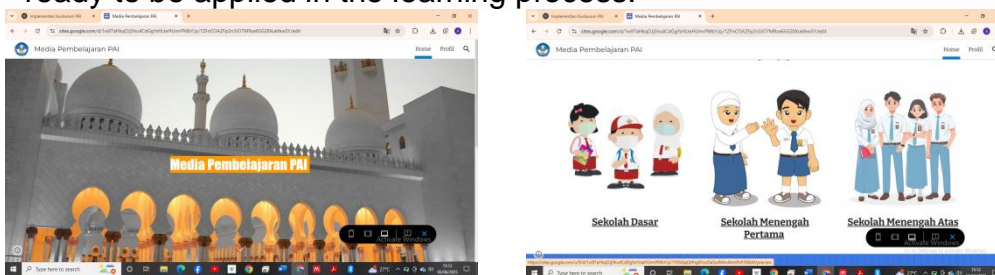
- 4) Next, create pages that contain the learning material (round shapes), then integrate the images with the pages according to their level (see arrow shape).



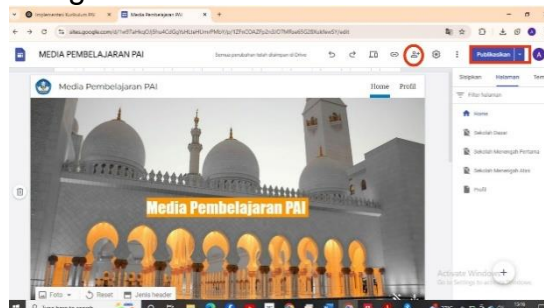
5) Next, create learning materials on each page, which can be in the form of text, learning videos from YouTube (Source: Tuasikal, 2020 & Yassir, 2023), exercises that can be integrated with word walls (Source: Nursylvi, n.d. & Lukman, n.d.), and assessments using Google Forms.



6) The Google sites-based web-based learning media, in islamic education subjects, is ready to be applied in the learning process.



7) Publish and provide Google Sites web links to students.



#### 4. Implementation Stage

At this stage, the application of Google Sites-based learning media is carried out to get feedback. This aims to observe the response of users, namely students, to the use of the media, especially in terms of its effectiveness in improving the learning outcomes of Islamic

Religious Education and Ethics subjects.

## 5. Evaluation Stage

In the development of learning media with the ADDIE model, evaluations are carried out at various stages to ensure their quality and effectiveness. This evaluation was obtained by comparing the results of the pre-test and post-test conducted by students.

## Advantages and Disadvantages of Google Sites Web-Based Learning Media

### Advantages

In Sulasmianti (2021), some of the advantages of google sites include: (1) free; (2) easy to make; (3) there are facilities for users to collaborate in their use; (4) free 100 MB online storage for personal Google account users and even unlimited storage for learning account users; (5) can be searched using the Google search engine.

### Disadvantages

In creating a website, Google Sites also has several disadvantages (Sulasmianti, 2021), including: (1) there is no drag-and-drop feature to design web pages so the website owner/admin has to make their arrangements.; (2) Google Sites does not support scripts and iframes, so website owners/admins must search for themselves using certain gadgets to be able to use these additional elements.

## 4. CONCLUSION

Google Sites are a type of product from Google as a tool for creating a website. In general, Google Sites are an application that contains information that is systematically compiled and can be used by individuals and groups. Web-based learning is one of the flexible delivery systems to be developed, especially to create student learning independence. Various forms of web services can be used as media or learning resources, one of which is the Google Sites feature. The model used for the development of web-based learning media Google Sites uses the ADDIE (Analysis, Design, Development, Implementation, and Evaluation) development model. Some of the advantages of Google Sites include: Integrated with Google; Maximum security, Fast website access, Simple website interface, Access from any device, Free. The Disadvantages include: (1) there is no drag-and drop feature to design web pages so the website owner/admin has to do the setup themselves.; (2) Google Sites does not support scripts and iframes, so website owners/admins must search for themselves using certain gadgets to be able to use these additional elements.

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