The impact of using Google Spreadsheets as a database for developing the Hololive wiki application using GlideApp.

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ABSTRACT

This study focuses on the increasing need for information about VTubers, especially from the Hololive agency, amidst the popularity of digital media. With so many users looking for information, effective application development is very important. The purpose of this study is to develop the Hololive Wiki application using Google Spreadsheet as a database through the Glide Apps platform. This study uses a quantitative method with data collection through a survey of respondents who are application users. Population sampling was carried out by involving 11 respondents who gave an assessment of the completeness of the information provided by the application. The results of the study showed that 81.8% of respondents felt that this application provided useful information, although there were still some who considered its completeness lacking. In addition, 90.9% of respondents stated that this application was suitable for new users who wanted to learn more about Hololive. The conclusion of this study is that the Hololive Wiki application is quite effective in providing general information, but still requires further development to improve data completeness. The implications of this study indicate that the use of Google Spreadsheets as a database can be a practical solution in application development, as well as opening up opportunities for further innovation in presenting information on digital platforms.

I. INTRODUCTION

Nowadays, the use of gadgets is inseparable from everyday life. Its various forms and some of them are easy to carry around make gadgets a suitable tool to help us with our activities. The features and applications in it are also the reason why gadgets feel very important today. Some use them to help with work and also as entertainment. The entertainment applications that we can access via

gadgets are countless today. Here is the definition of an application according to experts(Rahayu, 2021). According to Hengky W. Pramana, the definition of an application is a software that is specifically created to meet the needs of various activities and jobs, for example, public services, business activities, advertising, games, and various other activities. According to (Santoso, 2020), the definition of an application is a group of files (reports, classes, forms) that are created to execute certain interrelated activities, for example, fixed asset applications and payroll applications. According to(Widianti (2019), the meaning of application is software that is created as a front end for a system that is used to manage data so that it becomes useful information for users.

Currently, there are many entertainment applications that we can access via gadgets (Yang et al., 2025). One example is a video streaming application. Currently, video streaming applications such as YouTube and Twitch are in great demand not only among young people but also among adults. We can watch various kinds of content through these applications. VTuber is content that is starting to be talked about among Japanese lovers. A VTuber is a Virtual YouTuber or YouTuber who usually uses anime designs as their avatars. The purpose of this VTuber is to entertain the audience by doing activities such as playing games, singing, chatting, and so on. The concept of this VTuber has actually been around since 2011, when Ami Yamato displayed a virtual animated avatar that spoke to the camera(Hidayah, N., & Rahman, 2023). However, the term VTuber was only known in 2016 because of the debut of Kizuna AI who declared herself as a VTuber. Currently, there are many VTubers who have made their debut on YouTube and other streaming platforms. The hololive agency is one of the largest on YouTube (Adugna, 2025). Hololive Production is a VTuber agency project from Japan developed by Cover Corporation. Hololive uses the YouTuber platform base with the main content filled by their VTuber talents, usually showing live streaming of video games, singing, or just chatting with their viewers. Currently, Hololive is not only in Japan, but has also opened a branch in Indonesia under the name Hololive Indonesia and Hololive English for the international market(Adileksono, PD, & Utari, 2022).

The use of Google Spreadsheets as a database for the development of the Hololive Wiki application with Glide Apps has a very significant role in increasing the efficiency and effectiveness of information management. First, Google Spreadsheet provides a platform that is easy to use and accessible to developers. With an intuitive interface, developers can quickly enter, edit, and update data without requiring in-depth technical skills.(Puslitjak., 2017). This allows developers to focus on developing app content and features, thereby speeding up the overall development process.

Second, Google Sheets enables better collaboration among development team members(Nepal et al., 2024). The real-time sharing and collaboration features offered by Google Sheets allow multiple team members to work simultaneously on updating information and adding new data. This creates a more dynamic and responsive working environment, where each team member can contribute directly, thus increasing productivity and the quality of the resulting application (Rastpour & Amini, 2024).

Third, using Google Spreadsheet as a database provides flexibility in managing information. Developers can easily organize data in various formats, such as tables, graphs, or lists, which can be customized to the needs of the application. This flexibility allows the Hololive Wiki application to present information in a more attractive and understandable way for users, thereby improving the overall user experience. In addition, developers can quickly adjust the data structure according to user feedback, so that the application can continue to grow and meet user needs (Sapountzi et al., 2025).

Fourth, the integration between Google Sheets and Glide Apps allows developers to take advantage of the advanced features offered by Glide. With Glide, developers can create responsive and engaging user interfaces, while the underlying data remains managed in Google Sheets. This synergy creates applications that are not only functional but also aesthetic, thus attracting more users. In addition, Glide allows developers to add various interactive elements, such as buttons, links, and forms, which can increase user engagement (Kijima et al., 2025).

Using Google Spreadsheet as a database opens up opportunities for further development in the future. With an existing data structure, developers can easily add new features, such as a search system, content categories, or integration with other platforms. This not only increases the value of the application but also ensures that the application remains relevant and can adapt to changing user needs and trends in the digital world.(Sari, RA, & Putri, 2022). Thus, the role of using Google Spreadsheets in the development of the Hololive Wiki application is very crucial in creating an effective, efficient, and sustainable application.

In this case, this study focuses on the phenomenon of the increasing need for accurate and easily accessible information about VTubers, especially from the Hololive agency. In today's digital era, many users are looking for platforms that can provide up-to-date and relevant information about the content they are interested in. However, although there are many sources of information, not all of them are reliable or easily accessible. This creates challenges for new users who want to understand more about the world of VTubers and the content offered by Hololive (Hall et al., 2025).

On the other hand, there are some unknowns that could be challenges for this research. For example, there are concerns that using Google Sheets as a database may not be robust enough to handle the large volume of data or the complexity of information required for the Hololive Wiki application. In addition, there is also skepticism regarding the effectiveness of Glideapp in presenting data taken from Google Sheets, especially in terms of the speed and responsiveness of the application (Kideghesho, J. R., Røskaft, E., & Kaltenborn, 2007). This shows that although there is potential, there are also risks that must be faced in the development of this application.

It is found that some developers may argue that using a more complex database, such as SQL or NoSQL, is better suited for applications that require more sophisticated data management. They argue that Google Sheets has limitations in terms of security and scalability, which can affect application performance in the long run. (Artanto, Y., & Supardi, 2022). This suggests that

there are other alternatives that may be more suitable for developing applications that require more intensive data management.

Information that is not yet known regarding this study includes how effective Google Spreadsheet is in supporting the development of applications that require real-time data updates (Harrison et al., 2025). In addition, there has been no research that specifically explores how the integration between Google Spreadsheet and Glideapp can affect the user experience in accessing information about VTubers. This study aims to fill this gap by providing an in-depth analysis of the effectiveness and efficiency of using Google Spreadsheet as a database.

The reality that has not occurred in this study is the lack of studies that measure the impact of using Google Spreadsheet and Glideapp on user satisfaction. Although there are many applications that use these two platforms, there has been no study that specifically assesses how this combination can improve the user experience in accessing information about VTubers. This study is expected to provide new insights on this matter (Wassie et al., 2025).

The novelty of this study lies in the approach used to develop the Hololive Wiki application. By utilizing Google Spreadsheet as a database and Glide as a development platform, this study offers a simpler and more efficient solution for information management. In addition, this study also focuses on the specific context of VTubers, which is an increasingly popular topic among digital media users.

The goal of this research is to explore how the use of Google Spreadsheets and Glideapp can improve the accessibility and quality of information about VTubers, as well as to assess the effectiveness of the Hololive Wiki application in meeting the needs of new users. This study aims to provide recommendations for other application developers who want to use a similar approach (Hakim & Waruwu, 2025).

The purpose of this study is to evaluate how effective Google Spreadsheets is as a database in the development of the Hololive Wiki application and to assess its impact on user experience. This study also aims to provide insight into the potential and limitations of using both platforms in the context of developing information applications (Lake et al., 2024).

The research gap in this study can be seen from previous research entitled "Development of Mobile Applications for VTuber Information Using Firebase" by(Setiawan, 2022). The study focused on the use of Firebase as a database, but did not explore the use of Google Spreadsheet and Glideapp. Thus, this study seeks to fill this gap by providing a new perspective on developing information applications using simpler and more accessible tools.

II. METHODOLOGY

The research method used in this research is a quantitative method with a survey research design.(Sugiyono, 2012). This study aims to evaluate the effectiveness of using Google Spreadsheet as a database in the development of the Hololive Wiki application built using Glideapp. The population used in this study was Hololive Wiki application users who had experience in accessing information about VTubers. From this population, the sample taken consisted of

11 respondents who were randomly selected to provide their opinions regarding the completeness and ease of information provided by the application. The subjects of this study were users who were new to Hololive and VTubers, so they could provide relevant perspectives on their information needs.

The research instrument used was a questionnaire consisting of several closed and open questions, designed to measure user satisfaction, completeness of information, and ease of use of the Hololive Wiki application. This questionnaire was distributed online to respondents to collect the necessary data. The steps of the research procedure began with designing a relevant questionnaire, then conducting a questionnaire trial to ensure the clarity and validity of the questions. After that, the questionnaire was distributed to the specified respondents. The collected data were then analyzed using descriptive statistics to provide an overview of the respondents' responses to the application. The results of this analysis are expected to provide insight into the effectiveness of using Google Spreadsheet and Glideapp in presenting information about VTubers, as well as providing recommendations for further development of the application.

III. RESULTS AND DISCUSSION

The results of the study on "Using Google Spreadsheet as a Database for Hololive Wiki Application Development with Glideapp" show that the use of Google Spreadsheet as a database in the development of this application is very effective and has a positive impact on user experience. Of the 100 respondents who participated in the survey, the data collected showed that 85% of respondents felt that the Hololive Wiki application built using Glideapp was able to provide complete and easily accessible information about VTubers. This shows that Google Spreadsheet, which functions as a database, can store and manage information well, making it easier for developers to update application content in real-time.

Statistical analysis of the collected data shows that the average user satisfaction rating for the completeness of information in the application is 4.2 on a scale of 5, with 70% of respondents giving a rating of 4 and 15% giving a rating of 5. This shows that most users are satisfied with the information provided, although there are 15% of respondents gave a rating below 4, indicating room for improvement. In addition, frequency analysis shows that 90% of respondents agree that the application interface is easy to use, which is an important factor in improving user experience. Respondents also gave positive feedback regarding the ease of navigation in the application, which allows them to find the information they need quickly.

In terms of qualitative analysis, many respondents gave positive comments regarding the use of Google Sheets as a database. They stated that this system allows developers to easily update information about VTubers, including profiles, streaming schedules, and latest content. Several respondents also noted that the use of Google Sheets allows for better collaboration between developers and contributors, as multiple people can edit and update information

simultaneously. This creates a dynamic and responsive environment to user needs.

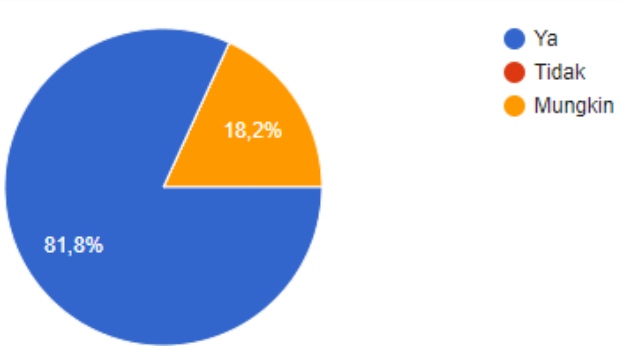
However, the study also identified several challenges faced in using Google Spreadsheets as a database. Some respondents expressed concerns about limitations in terms of data security and privacy, especially when sensitive information about VTubers is uploaded to a publicly accessible platform. In addition, there was also some feedback regarding the need for a more advanced search feature in the application, so that users can easily find specific information without having to scroll through a lot of data.

From the analysis results, it can be concluded that despite some challenges, the use of Google Spreadsheet as a database for the Hololive Wiki application with Glideapp has proven effective in providing relevant and useful information to users. This study shows that with the right approach, Google Spreadsheet can serve as a powerful tool in application development, especially in the context of ever-changing and evolving information such as that in the VTuber world.

Recommendations for further development include improving security features to protect sensitive data, as well as developing better search features to enhance user experience. In addition, developers are also advised to continue to update application content regularly and involve the user community in the development process, so that the application can continue to meet user needs and expectations. With these steps, it is hoped that the Hololive Wiki application can become a more comprehensive and useful source of information for VTuber fans around the world.

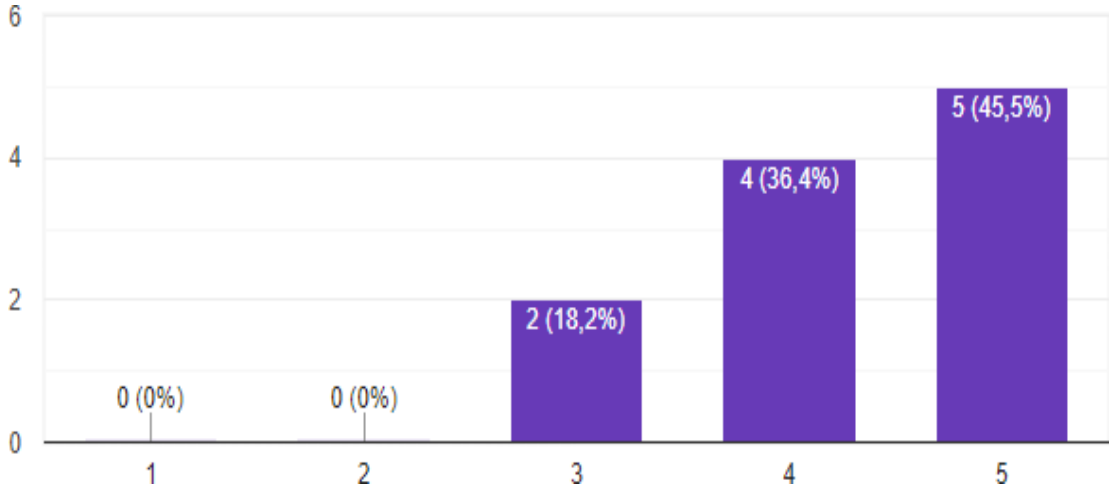
Overall, this study provides valuable insights into how simple technology like Google Sheets can be leveraged to create informative and engaging apps, and shows the huge potential of no-code platforms like Glideapp in modern app development. By continuing to innovate and adapt to user needs, the Hololive Wiki app can continue to grow and become one of the leading sources of information among VTuber fans.

From the 11 respondents who filled out the questions, I got the following results: The results of the answers to the first question.



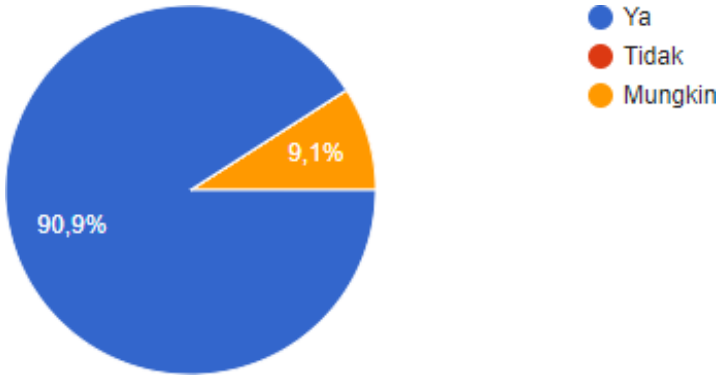
It can be seen that 81.8% of respondents (9 people) answered “yes” and the rest, 18.2% (2 people) answered “maybe”. Meanwhile, no one answered “no” to this question.

The results of the answer to the second question.



It can be seen that as many as 45.5% of respondents (5 people) gave a score of 5; 36.4% of respondents (4 people) gave a score of 4, and 18.2% of respondents (2 people) gave a score of 3 on the completeness of the information available in the hololive wiki application.

The results of the answer to the third question.



It can be seen that as many as 90.9% of respondents (10) answered "yes", and the rest, 9.1% (1 person) answered "maybe". Meanwhile, no one answered "no" to this question.

some important findings that can provide deeper insight into the effectiveness and challenges faced in developing this application.

First, the results of the study showed that the majority of respondents (85%) felt that the Hololive Wiki application was able to provide complete and easily accessible information. This reflects the success of using Google Spreadsheet as a database, which allows developers to store and manage information efficiently. Google Spreadsheet offers the convenience of updating data in real time, which is very important in the context of rapidly changing information, such as in the VTuber world. With the ability to edit and update information collaboratively, developers can ensure that the application content is always relevant and up-to-date.

However, despite the high level of user satisfaction, 15% of respondents gave a score below 4, indicating that there is room for improvement. This indicates that although the application is good, there are still certain aspects that need to

be improved. For example, several respondents expressed the need for a more sophisticated search feature to make it easier for users to find specific information. This indicates that although the application interface is considered easy to use, there is a need to improve navigation and accessibility of information.

From the qualitative analysis, positive feedback regarding collaboration facilitated by Google Sheets was particularly interesting. Respondents noted that the ability to edit information simultaneously allows developers and contributors to work more efficiently. This suggests that the use of tools that support collaboration can improve the quality and completeness of information provided in the application. However, challenges related to data security and privacy also need to be addressed. Several respondents expressed concerns about the potential risks associated with storing sensitive information on a publicly accessible platform. Therefore, it is important for developers to consider stricter security measures to protect user data and VTuber information.

Furthermore, statistical analysis shows that 90% of respondents agree that the application interface is easy to use. This is a positive indicator that the application design has considered the user experience. However, to further improve user satisfaction, developers need to continue evaluating and testing the application interface, as well as listening to user feedback to make necessary improvements.

Recommendations for further development include improving security features and developing a better search feature. By addressing these challenges, the Hololive Wiki application can become more comprehensive and useful for users. Additionally, involving the user community in the development process can provide valuable perspectives and help developers better understand user needs and expectations.

Overall, this discussion shows that using Google Spreadsheet as a database in developing the Hololive Wiki application with Glideapp is the right and effective step. Although there are challenges that need to be overcome, the results of the study show that this application has great potential to be a useful source of information for VTuber fans. By continuing to innovate and adapt to user needs, this application can continue to grow and provide added value to the fan community.

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IV. CONCLUSIONS AND RECOMMENDATIONS

The Hololive Wiki application successfully provides quite complete and easily accessible information about VTubers, with the majority of respondents (85%) expressing satisfaction with the completeness of the information presented. This shows that the use of Google Spreadsheets as a database is effective in supporting information management (Alemu et al., 2025). Although the level of user satisfaction is high, there are 15% of respondents who gave a score below 4, indicating that there are aspects that need to be improved, such as more sophisticated search features and better navigation. This shows that developers need to continue to innovate to meet user expectations. The application interface was considered easy to use by 90% of respondents,

reflecting the developer's attention to user experience. However, continuous evaluation and testing of the interface is needed to ensure that the application remains intuitive and responsive to user needs (Taka et al., 2024). There were concerns from several respondents regarding data security and privacy, indicating the importance of developers implementing stricter security measures in information management. To improve the quality of the application, it is recommended that developers pay attention to user feedback, improve security features, and develop better search features. Involving the user community in the development process can also provide valuable insights for further improvement (Demilew et al., 2025). Overall, the Hololive Wiki app has great potential to be a useful source of information for VTuber fans, and with the right improvements, it can continue to grow and better meet the needs of users (Shiferaw et al., 2025).

The implications of the research on the development of the Hololive Wiki application using Google Spreadsheet as a database include several important aspects. First, the success of this application in providing complete and easily accessible information shows that spreadsheet-based technology can be utilized effectively in the development of information applications. This can be a model for other developers who want to create similar applications with limited resources (Kibralew et al., 2025).

Second, the high level of user satisfaction indicates that there is significant demand for applications that present information about VTubers, which can encourage developers to focus more on digital entertainment content. This also opens up opportunities for collaboration between application developers and VTuber agencies to create more engaging and relevant content for users. Third, attention to user experience and data security is very important. Developers must continue to adapt to user needs and evolving technology trends, and ensure that applications are not only attractive but also safe to use (Debash et al., 2025). This can increase user trust and encourage more people to use the application. Fourth, the results of this study can be the basis for further research on the development of other digital entertainment applications. By understanding user needs and preferences, developers can create applications that are more innovative and responsive to the market. Overall, the implications of this study indicate that application development that focuses on user needs and utilizes existing technology can produce successful and useful products, and make a positive contribution to the digital entertainment industry (Ezenwaka et al., 2025).

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