

I-ISLAM: AN INTEGRATED MOSQUE INFORMATION AND ISLAMIC RESOURCES MOBILE APP

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ABSTRACT - The i-Islam mobile application was developed to address the challenges faced by individuals seeking up-to-date mosque information in the era of globalization. The objective of this project was to create a comprehensive Android application that serves as a one-stop solution for accessing mosque information, Islamic resources, and opportunities for charitable contributions. The Waterfall SDLC model was utilized for the project, providing a structured approach to system requirement analysis, design, and development processes. The research studies conducted in the field of donation and charity applications played a significant role in guiding the development process and improving the application's features and functionalities. i-Islam application seeks to provide a user-friendly platform for Android users to access mosque information, engage in spiritual activities, and contribute conveniently to charitable causes. These efforts aim to continually enhance the app's functionality, user experience, and impact within the community.

Keywords: i-Islam, Mobile Application, Mosque Information, Islamic Resources, Waterfall SDLC model

1. INTRODUCTION

In today's era of globalization, although information is easily accessible at our fingertips, many people still face challenges in obtaining up-to-date information about mosques in their area. This is often due to a lack of awareness about websites or mobile apps, such as Facebook, utilized by the mosques to reach out to the public. Additionally, the term "mobile application" has become universally recognized as software designed for use on smartphones and other mobile devices (Chmielarz, 2020). This trend also applies to non-charitable organizations that adopt similar approaches to engage with the public. Therefore, the objective of this project is to develop a comprehensive mobile application called i-Islam, which will serve as a one-stop solution for Android users seeking information about mosques in the Perlis area, Islamic resources, and opportunities for convenient contributions to charitable causes.

2. METHODOLOGY

The project was carried out using the Waterfall SDLC (System Development Life Cycle) model, chosen for its straightforward, efficient, and effective guidance in conducting various activities. The key phases of this methodology include system requirement and analysis, design, and development processes, all of which are crucial when developing a mobile application. Understanding the appropriate hardware and software, such as Android Studio, is essential in the development of Android applications.

3. RESULTS AND DISCUSSION

The development process included three types of testing: functionality testing, usability testing, and network performance testing. Figure 1 illustrates the results of network utilization, which helps assess the application's performance and offers recommendations for potential enhancements. The average download data transfer is 0.04 MB, indicating minimal network usage. Similarly, the average upload data transfer is 0 MB, indicating that the application does not extensively rely on network upload. Based on the network utilization findings, no improvements are necessary for this aspect, as the average values remain below 0.

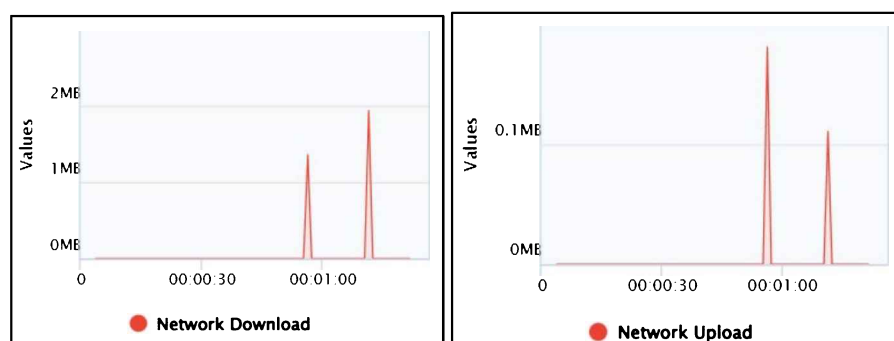


Figure 1. Network Utilization

4. NOVELTY OF RESEARCH / PRODUCT

#SadaqahMasjid is a mobile application that was developed in 2019 by the Brainy Bunch Foundation. Its main function is to facilitate online donations to mosques through online payment methods. However, there are some issues related to the availability and accuracy of mosque information within the application. Additionally, several research studies have highlighted the lack of promotion and awareness surrounding donation and charity applications, which results in limited support for causes around the world (Fathima, 2022). Previous research has also focused on the development process of Android-based donation systems, addressing the challenges of finding qualified nonprofit organizations and the resulting hindrances in making donations (Sai et al., 2022). These research studies are valuable in guiding the development process of this project and contributing to the creation of an improved product.

5. CONCLUSION

In conclusion, the i-Islam mobile application offers Android users a user-friendly platform to access mosque information, participate in spiritual activities, and contribute to charitable causes. Future developments may include expanding the app's coverage to include more mosques, incorporating interactive features to enhance user engagement, and refining the integration of donation processes. These advancements will further improve the app's functionality and provide a more comprehensive user experience.

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