



## Web Profile Design for Al-Muttaqien Mosque using Agile Method

Putri Sabilla Br Tarigan<sup>1\*</sup>, Johannes Terang Kita Perangin Angin<sup>2</sup>, Hendri<sup>3</sup>

<sup>1,2,3</sup>Information Systems Study Program, Stmik Time Medan

[putritarigan54@gmail.com](mailto:putritarigan54@gmail.com)<sup>1\*</sup>, [timejohanes@gmail.com](mailto:timejohanes@gmail.com)<sup>2</sup>, [h4ndri7@gmail.com](mailto:h4ndri7@gmail.com)<sup>3</sup>

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### Abstract

The development of information technology in today's digital era has had a major impact in various aspects of people's lives, including in terms of disseminating religious information. Al-Muttaqien Mosque located in Delitua still uses conventional methods in delivering information and managing its religious activities. This causes a lack of fast and efficient access to important information for worshippers, such as activity schedules, ustaz searches, or funeral arrangements. This study aims to design and build a mosque profile website as a more modern and structured information media. This website includes general mosque information, activity schedules, religious news, and board contacts. With this website, it is expected that the delivery of information will be easier, faster, and reach the community at large. The system development method used is the Agile method, which is iterative, flexible, and adaptive to change. Agile was chosen because it is able to accelerate the development process and allows for regular evaluation and improvement during the website development process. The process was carried out in several sprints with a focus on user needs and core system functionality. The final result of this research by Al-Muttaqien Mosque profile website that has been successfully implemented and hosted online. This website can be accessed by worshippers and the general public as an effective medium of communication and information, and is expected to be the first step in digitizing mosque services in the future.

*Keywords:* Al-Muttaqien Mosque, Web Design, Religious Information, Digital Information Media, Agile.

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### 1. Introduction

In this technological development, the existence of the internet has become one of the important aspects in the daily lives of people in an increasingly advanced digital era [1]. With the existence of technology being one of the tools to make it easier to convey information and have a positive effect on agencies [2]. Al-Muttaqien Mosque is a place of worship for Muslims, but along with the development of the times and mosque technology today not only acts as a place of worship. To facilitate joint prayers, social interactions, and community development, there are many activities currently carried out at the mosque, starting from coaching activities, learning, empowering people, slaughtering sacrificial animals, big day activities [3]. In today's digital era, the existence of information technology has become an inseparable part of people's lives. Mosques as centers of religious and social activities of Muslims need to adapt to technological developments to improve services and information reach to worshippers and the wider community. Al-Muttaqien Mosque located in Delitua currently still uses conventional methods in disseminating information and managing its activities, at this time there are not a few people who still have difficulty in finding preachers to preach or even to pray for the dead. A mosque profile is a comprehensive description of the character of a mosque. Mosque profiles are useful as a source of information to determine steps in an effort to prosper the mosque [4]. This website is designed to solve the problem that information on mosque activities is still conveyed through direct announcements or information boards and makes it easier in the modern era. The design of the profile website built by the author is expected to produce a system that suits user needs in a short time [5]. Based on the description above, the author wishes to build a website with the title " web profile design for al-muttaqien mosque using agile methods ".

### 2. Research methods

#### 2.1. Problem analysis

The problem analysis that arises is related to the dissemination of information about activities at the mosque which is still limited only through regular announcements from the mosque. The following are the points of analysis of the problem.

1. Dissemination of information on mosque activities is still disseminated through mosque announcements. Although this method is effective in delivering information, its environmental reach is very limited. This results in the community not knowing about the activities in the mosque.
2. Documentation of mosque activities is difficult to find because it is not well archived. Mosques also do not have media to introduce and display documentation of activities to the wider community. Without media, it will be difficult for the community to find

information on activities that will be held at the mosque.

3. The schedule of activities that are still recorded manually, the mosque management will have difficulty in informing changes in the schedule which can change suddenly because there are obstacles in the management or coordination of changing the ustadz who lectures.

## 2.2. Analysis of system needs

To overcome the problems faced by mosque administrators, the authors plan to create a web profile that can help introduce the mosque. The system requirements needed are:

1. Functional needs, where the system must be able to display profile and history information and display activity schedules as well as display documentation of mosque activities.
2. Non-functional needs, where the system created must be accessible through anything and can be accessed for 24 hours so that the wider community can access information anytime and anywhere.
3. Admin user needs, where the system to be built must have login access to the system so that the admin can manage the system so that it can update mosque information and documentation.

## 2.3. Analysis of the methods uses

At this stage, the method used in the construction of the AL Muttaqien Mosque Web Profile will be discussed. The method used is the agile method. The Agile method was chosen because it has characteristics that are in accordance with the needs of system development, namely:

1. Requirements Planning  
this stage includes identifying data requirements based on five main variables, namely Home, Gallery, Schedule, Structure, and Map. The Home page displays brief and detailed information about the mosque. The Gallery contains documentation of activities. The schedule contains prayer schedules and religious activities. Structure displays the composition of the mosque management. The map is integrated with Google Maps to make it easier to find the location of the mosque.
2. User Design  
The design focuses on modern and responsive UI and UX. Each page is designed to provide easy access to information for users. The design was created using Figma so that stakeholders can review the user flow. The homepage features easy navigation and mosque information. Gallery provides easy access to documentation. Schedule provides clear prayer information. Structure displays the management systematically. The map uses interactive location features. This stage ensures that the website meets the needs of users.
3. Construction  
This stage begins with the creation of wireframes using Figma. Development is done using HTML, CSS, PHP, JavaScript, with the CodeIgniter framework. MySQL is used as a database to store data.
4. Cutover  
Testing is carried out by users to ensure login validation and navigation functions on all pages run according to the AL-Muttaqien Mosque Web Profile Standard Operating Procedure.

## 2.4. Analysis of the proposed system

The proposed system analysis is modeled using Use Case Diagrams and Activity Diagrams.

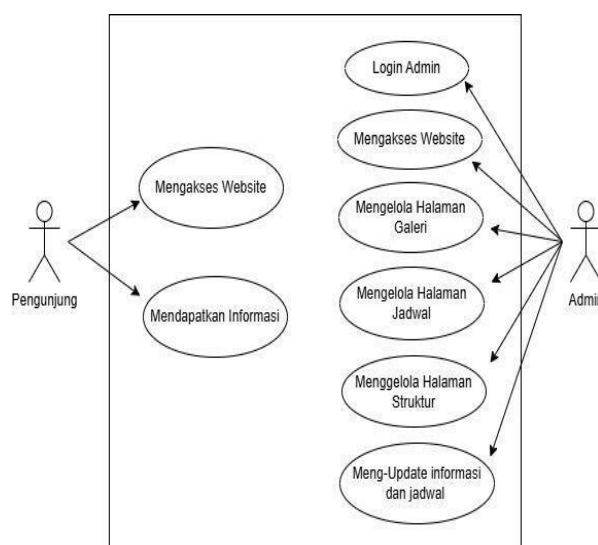


Fig. 1: Use case diagram

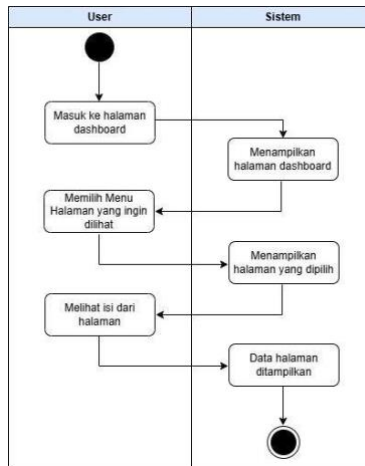


Fig. 2: Activity diagram of admin login

depicts the flow of activity in editing data by the admin where the admin can edit data. Starting from the admin entering the dashboard. Then the system displays the dashboard page, then the admin maintains the page he wants to edit. Then the system will display the data from the page and the admin can edit the data and save the data. Then the system will save and display the data on the web page.

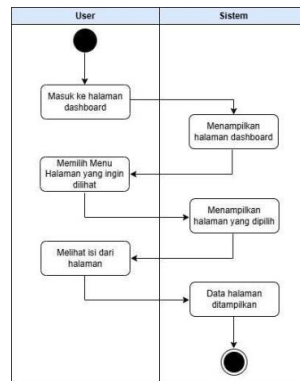


Fig. 3: Activity diagram for editing data

illustrates the flow of activity in the use of visitors where visitors can access the website. Then the system displays the dashboard page and visitors select the menu features on the website. Then the system displays the page that has been selected by visitors and visitors can view and get information from each different page with the system displaying data on each page.

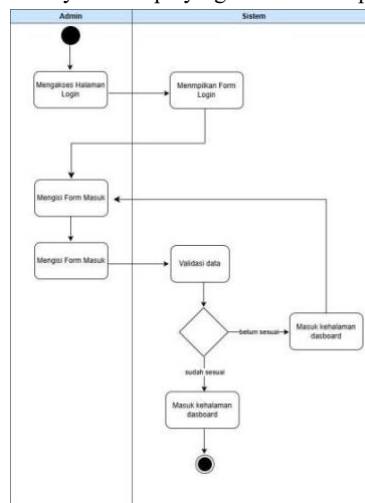


Fig. 4: Activity diagram user

### 3. Results and discussion

In this sub chapter will be presented the results of the implementation of the research that has been done, in the form of the construction of a web profile as a medium to introduce the AI Muttaqien Mosque.

### 3.1. Website display result

#### 1. Admin Login Form

The login view is a view to perform the login process in order to enter the application and use the features provided in the application Login will only be used by admin.



Fig. 5: Admin login form

#### 2. Gallery page view



Fig. 6: Gallery page view

#### 3. Schedule page view



Fig. 7: Gallery page view

#### 4. Location page view



Fig. 8: Location page view

## 5. Admin page view

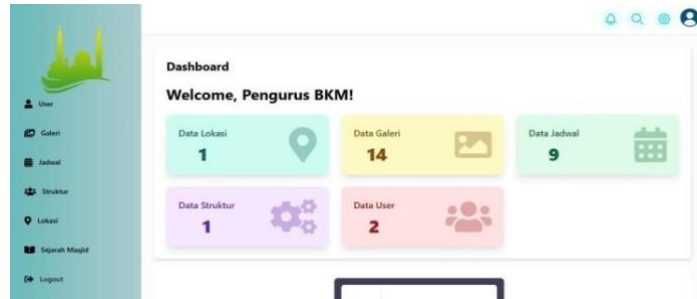


Fig. 9: Admin page view

## 4. Conclusion

After the research is completed, it is necessary to present the conclusions of the research results presented, namely:

1. The *web profile* that was built successfully became a medium to introduce the mosque to the wider community by displaying every activity carried out in the form of documentation such as photos and videos.
2. The results showed that the *Agile* method was able to accelerate the development process in adjusting to user needs by conducting development in a phased and structured manner.

## 5. Suggestions

As for some suggestions for further research and development in the future, it is to develop the *web* to add displays related to fundraising and donations, as well as adding digital fundraising features such as QRIS or e-wallets and it is also recommended for further development, to add report features related to waqf and finance.

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