
**Web-Based Donation Information System At Tpq / Tqa Masjid Nurhikmah
Kampung Melayu Nanggalo Padang**

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Abstrak

Nurhikmah Mosque is a mosque located in Kampung Melayu Nanggalo Padang. This research is motivated by the problem of the Nurhikmah Mosque, which currently does not have an information system for managing donations. The large number of donors must come directly to the Nurhikmah Mosque, so it takes time to get to the location of the mosque, if the donor is far from the location of the Nurhikmah Mosque.

To overcome this problem, a management system is needed that can be accessed easily by the community. The research conducted in this final project is to create and design a web-based donation information system for the Nurhikmah Mosque. This information system is made with Hypertext Preprocessor (PHP), CodeIgniter Framework and MySQL database. The research method used is waterfall. Starting with system analysis, design, coding and the final stage is system testing. The purpose of this system that will be created is to make it easier for the wider community to make donations/charity to the Nurhikmah Mosque.

A. Introduction

Donations are a humanitarian activity that aims to be used for social activities. TPQ / TQA Masjid Nurhikmah Kampung Melayu Nanggalo Padang is an institution that carries out this activity. Donations are collected from the community which will be used for social activities. Data processing at TPQ / TQA Masjid Nurhikmah Kampung Melayu Nanggalo Padang is still conventional, including processing financial data, donor lists, and other data lists. Therefore, it is necessary to create an application that is able to record and report to the community quickly, precisely and accurately.

With the existence of computers and applications as data processing tools, then any field of work in a company or agency can be computerized. The development of IT today has also affected some of the Muslim-majority Indonesian people, especially those who manage an organization or institution in the social humanitarian field, one of which is by managing funds for teachers' salaries and educational operations, development, and student learning needs at TPQ / TQA Masjid Nurhikmah Kampung Melayu Nanggalo Padang. Because we can know that there are also many people who want to spend some of their assets for the benefit of others or usually called alms.

TPQ/TQA Masjid Nurhikmah Kampung Melayu Nanggalo Padang is a religious education institution specialized in learning/memorizing the Qur'an. This institution is an institution established and managed independently by the community consisting of elements of the mosque congregation, ninik mamak, youth or youth and others. Education in this institution is free for all students, so this institution depends on donations from donors. Other problems are bookkeeping and donations using book media and traditional data processing, causing ineffective donation systems such as the occurrence of human error and inefficient donation systems such as time-consuming and costly manufacturing.

This system is designed to achieve financial transparency based on the needs and donors believe in donating money to TPQ / TQA Masjid Nurhikmah Kampung Melayu Nanggalo Padang, because the money donated is clear bookkeeping, easily accessible allocation. With the design of an online donation information system, it is hoped that technical accounting and donation information at Rumah Tahfidz can be done effectively and efficiently and produce informative reports.

Based on the description of the background and problem formulation above, the objectives of this study are:

1. Building a Web-Based Donation Information System at the TQQ / TQA Mosque Nurhikmah Kampung Melayu Nanggalo Padangs effectively and efficiently.
2. Implementing the Donation Information System built at TPQ / TQA Masjid Nurhikmah Kampung Melayu Nanggalo Padang in a user friendly manner.
3. Produce Web-based reports that are informative and timely.

B. Research Methods

Designing a donation system using the SDLC design method. The stages in the SDLC are described by the waterfall model. This SDLC method was chosen because the stages of the development process are fixed (definite), easy to apply and the process is organized.

Current System Analysis

The following is an analysis of the donation information system that is currently running at TPQ / TQA Mesjid Nurhikmah Kampung Melayu Nanggalo Padang.

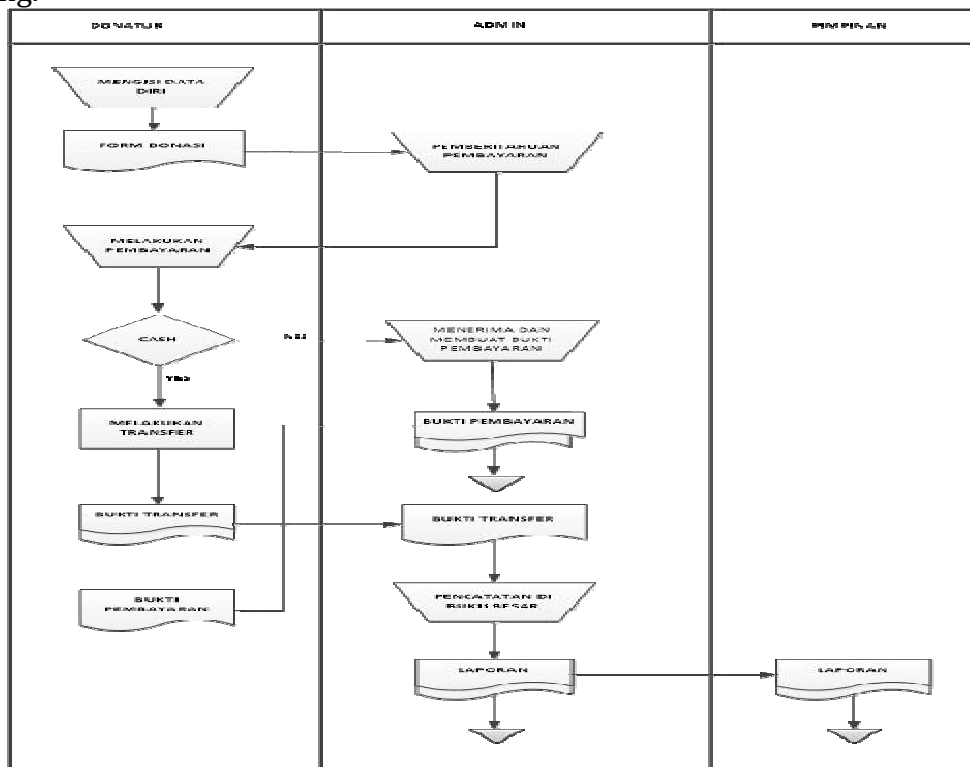


Figure 1 Current System Flow

System Design Stage

The design tool used to design this donation system uses UML (Unified Modeling Language). UML is an object-oriented method. The UML diagrams used for this design are usecase diagram, sequence diagram, activity diagram, class diagram. The following is a usecase design for the proposed system. The diagram used is as follows:

Proposed UseCase

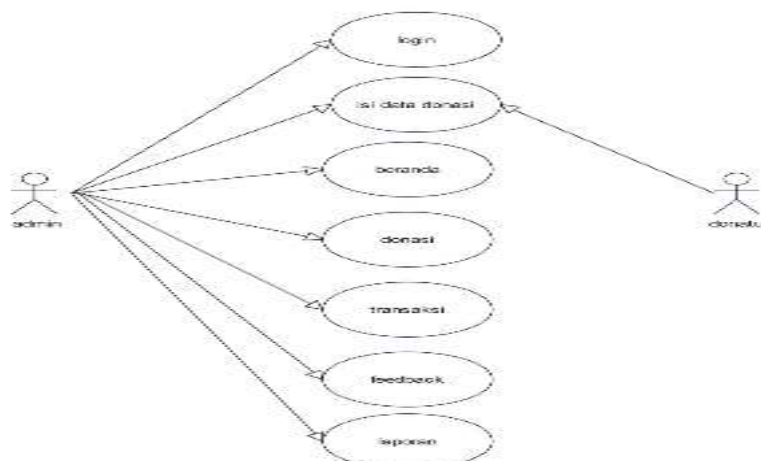


Figure 2 Proposed Usecase for Nurhikmah Mosque

Admins have the right to manage applications for filling in donation data, transaction data, feedback data, and recording reports.

As for donors / donors on the web page, then select a photo image, if to make a donation and transfer funds according to the account number listed on the web page.

Proposed Activity Diagram

Activity diagrams model the work flow of a sequence of activities in a process. This diagram is very similar to a flowchart because we can model the logical process, business process.

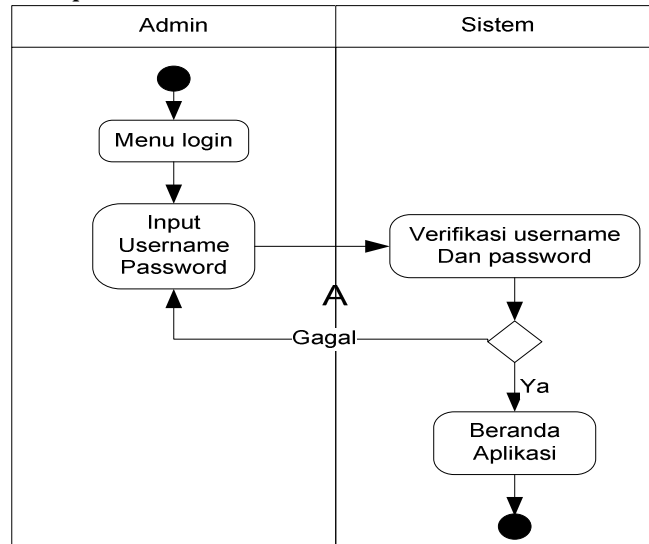


Figure 3 Proposed Admin Login Activity Diagram

Proposed Sequence Diagram

Proposed Login Sequence Diagram Admin logs in by filling in the user name and password, and manages filling in donation data, transaction data, feedback data, and recording reports. As for donors, they can go to the homepage and fill in donation data.

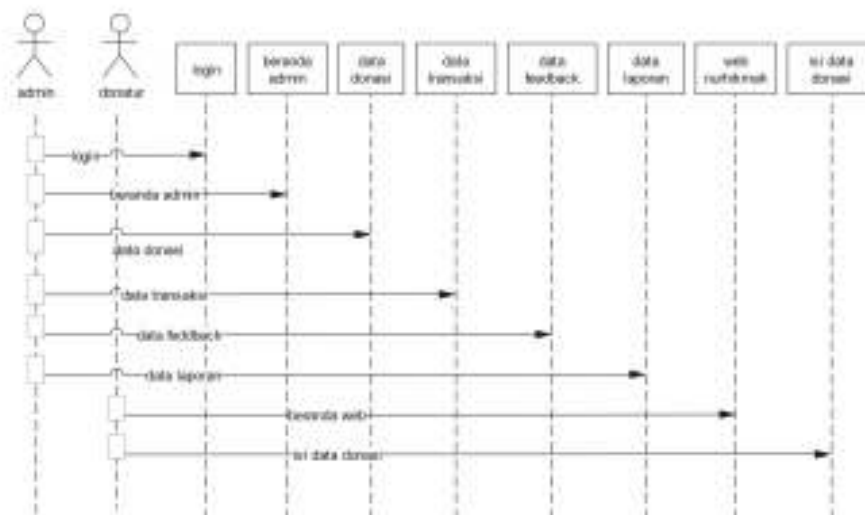


Figure 4 Proposed LoginAdmin Sequence Diagram

Proposed Class Diagram

The proposed Class Diagram is a diagram that describes the structure of the system in terms of defining the classes that will be created to build the system.



Figure 5 Proposed Nurhikmah Mosque Class Diagram

C. Hasil dan Pembahas
Nurhikmah Mosque Donation Testing Results

Based on the results of system testing that has been carried out as a whole, it provides a conclusion that the process in this application has gone through an improvement stage and has been maximized on these processes and functionally the system can be used and produces the expected output.

Implementation of User Interfaces (Display)

1. Nurhikmah Mosque Donation Web Page

The page used for donors when they want to make a donation to the Nurhikmah Mosque is as follows:



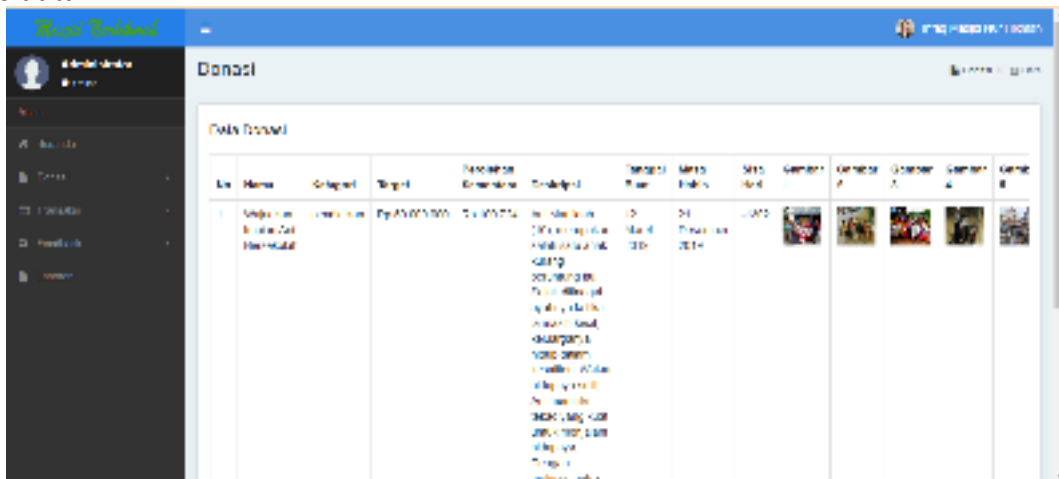
2. Admin Home Page

On the Admin sidebar page which contains the donation, transaction, feedback and report menus



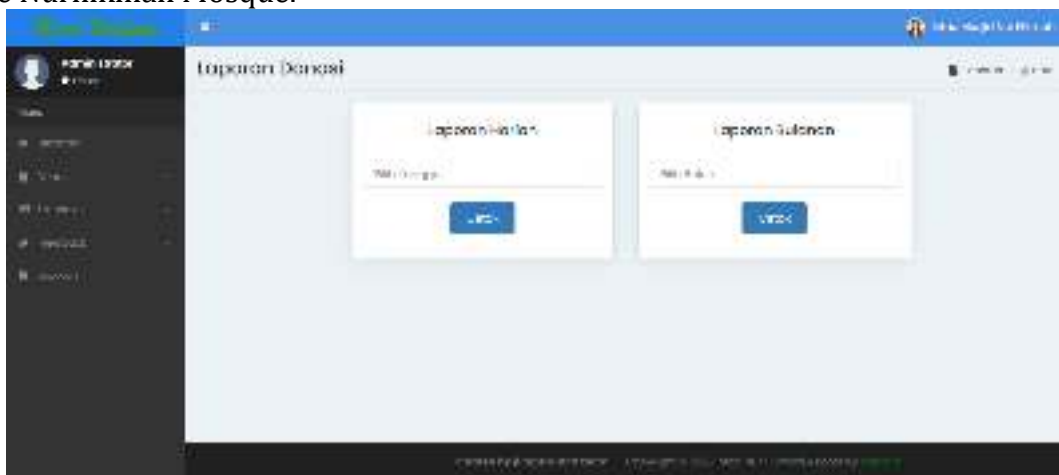
3. Donation Menu

On the donation menu the mosque administrator admin can edit and delete the data.



4. Report Menu

On this menu the admin can print daily and monthly reports of donations to the Nurhikmah Mosque.



D. Conclusion

Based on the results of the analysis and design of the system built, the following conclusions are drawn:

1. With this website, donors from all corners as long as there is an internet network can make donations / donations to the Nurulhikmah Padang Mosque.
2. With this application, it makes it easier for managers to know reports - reports from any community that has made donations to the Nurulhikmah Padang Mosque.

Advice

Based on the results of research and testing and implementation that the author did, the authors would like to provide suggestions about system improvements, which may not currently be realized by the author:

1. There needs to be additional features - features of the registration menu, so that every mosque donation donor can continue to interact with the mosque management.
2. There needs to be an online chat facility between mosque administrators and prospective donors / mosque donations.
3. For better development based on mobile android and ios.
4. Can do autodebet through the donor / donation account for this mosque.

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