
WEB BASED TAHFIDZ QUR'AN MANAGEMENT APPLICATION AT MAZROATUL LUGHOH ISLAMIC BOARDING SCHOOL

Mar'atus Sholihah¹, Maulidina Rahmawati Surya²

¹Informatic Departemen of Billfath University, Lamongan, Indonesia

ABSTRACT

This Web-Based Tahfidz Qur'an Management Application is an application or software designed to process data related to the target memorization and recap of students, especially at the Mazro'atul Lughoh Islamic Boarding School, Pare Kediri. The problem faced in this Islamic boarding school is in carrying out targeting guidelines and memorizing students who still use the manual method, namely via WhatsApp. Because there are no more sophisticated applications to make it easier to store data and to access information.

The purpose of making this Web-Based Tahfidz Qur'an Management Application is to make it easier for admins, teachers, students and guardians of students to input data, recap data, update data and access information that has been updated by the admin. The method used in the research. This application is a method of observation, literature study, interviews, system design and system testing. This program was developed using the PHP (Hypertext Preprocessor) programming language and MySQL database. The design is built using HTML and CSS. Using CodeIgniter Framework and SB admin 2 templates.

Keywords: *Web-Based Tahfidz Qur'an Management Application, sophisticated applications.*

Article History

Received 00 December 00

Received in revised form 00 January 00

Accepted 00 February 00

1. Introduction

In the modern era 4.0 today, almost all activities of human life cannot be separated from the use of information technology for other activities and services [1]. The use of Information Technology is no longer just a tool but a mandatory component that must be owned. The development of Information Technology which greatly facilitates the activities of human life has caused a very high dependence on the existence of information technology [2].

According to the research and information I got from the owner and caretaker of PP. Mazro'atul Lughoh Pare Kediri, he is Mr. M. Qomar, M.Pd, that PP. Mazro'atul Lughoh Pare Kediri is one of the Islamic Boarding Schools in East Java that applies the concept of general education as well as religious education. The Tahfidz acceleration program is one of the leading learning programs at the cottage [3]. Management is also needed in planning, organization, coordination and control [3]. This program implements a one-year hatam bil ghoib target system. With the vision and mission of creating a generation of Qur'an memorizers who are lafdhan, wa ma'nān, wa amalan, realizing a modern, superior and Rahmatan lil Alamin Islamic Boarding School, creating a quality, tough, sensitive, and quality Qur'anic generation. highly skilled and broad-minded.

Tahfidz Al-Qur'an is the process of reading the Qur'an repeatedly so that it becomes the memorization of the Qur'an which includes writing, pronunciation, translation tadabur and the arrangement of memorized verses [4]. The tahfidz acceleration program is a special program for memorizing the Qur'an with a khatam chase system for ziyadah (additional deposit), then continued with murojaah (repeating memorization) and tasmii' (playing memorization).

Which can be supported by several supporting activities, namely; a. Istima" fi Al Shollah is an activity of istima" (hearing) the reading of the imam at the tahajjud prayer and the dhuha prayer. During the prayer, the priest reads maqro" juz (bil ghoib) with jahr (voice), then the students listen to the imam's reading in the prayer. b. Muroqobah is an activity of reading the Qur'an together which is led by one person who is appointed and considered capable, with tartil reading. In a day the students read 5 juz, so that once a week the students have read the Qur'an. This activity will become the habituation of students, so that the process of memorizing the Qur'an will feel light and easy. c. Fashohah is an activity of tahsin reading the Qur'an with the classical method of reading and listening (students read one verse per verse). So that students' reading becomes quality. d. The tartil program is a special reading improvement program aimed at all new students. So that all student readings will be standardized. This program is devoted to recitation in practice with a percentage of 80% and theory 20%. The general target of the program is that students can complete memorization within 6-12 months starting from the time of memorizing. This program is affiliated with the existing program at the Jombang Hamalatul Qur'an Islamic Boarding School. Meanwhile, with the development of time, there is a software (software) in processing data, stored digitally which can later be used as relevant information [5].

The stages of the tahfidz acceleration program are; a. Pre-Memorization (bin nadzor) 1. An Nabil's Tartil method learns to read the Qur'an from the basics, examples of letter pronunciation, short length, hum, etc. 2. Bin Nadzor Deposit to read the Quran to Asatidz with a minimum deposit of Juz (5 pages) per day. b. Memorization (bil ghoib) is a deposit for memorizing the Qur'an to asatidz with a general target of a minimum deposit of 2-5 pages per day so that 6-12 months can complete memorizing the Qur'an.

* Corresponding author. Phone : +62 857-321-405-75;

E-mail address: maulidina@billfath.ac.id

Santri can continue at this stage when they have tasmi Juz 30 bil ghoib.

c. Murojaah (repeating memorization), students repeat their memorization (murojaah) to asatidz. If it reaches 1 juz, then students deposit murojaah one juz in one sitting (continuously until tasmi“):

1. The first tasmi is 3 juz.
2. Tasmi“ second 5 juz.
3. Tasmi“ third 10 juz.
4. Tasmi“ fourth 15 juz.
5. Tasmi“ fifth 20 juz.
6. Tasmi fifth 25 juz.
7. Tasmi“ sixth 30 juz.

The data processing process and the target of memorizing the tahfidz program at PP. Mazro“atul Lughoh are currently still being carried out using an assessment book and daily deposit acquisition reports, which are given once a week by asatidz to the person in charge of tahfidz and the guardians of the students still in document form. So that the tahfidz or asatidz supervisor must think about the memorization target of each child according to their abilities, make reports on the accumulation of learning data and recaps of rote acquisition that have been written in the deposit book once a week in the form of documents on a regular basis.

There are several relevant studies, including: web-based tahfidz value data processing applications with problems in processing tahfidz value data at SDIT Permata Bunda I Bandar Lampung so that with this application it makes it easier for supervisors to manage tahfidz values and reporting [6]. Al-Quran memorization system The web-based PP Tahfiz Buton online santri Quran regarding manual muroja'ah deposits so that it cannot be flexible if under certain conditions with the system, it makes it easier to manage Al-Quran memorization and murojaan data for musyrif and online santri at Pondok Tahfiz Buton [7]. While others, there are Tahfidz MMI institutions that do not have well-integrated data in academic activities so that to facilitate the management a web-based academic information system is designed [8], designed a system at Tahfidz Himmatuna's house because the system is still conventional so that it is automated in scheduling, using voice call and video technology for the tahfidz system as a medium of communication [9], the learning management side is less than optimal in memorization, learning objectives, time so it is necessary to know the management of tahfidz Al-Quran learning in achieving memorization targets [10].

From various previous studies, the researchers designed a web-based Tahfidz Qur'an management, aiming to make it easier for Tahfidz supervisors to guide memorization targets for the average ability of students, processing tahfidz data, recap data and reporting Tahfidz using the waterfall method system development with stages including: analysis and design. System design analysis was built using DFD [11]. This application is built using the CodeIgniter framework, which is a framework for creating dynamic website applications [12] and database management using a PHP programming language concept [13] with system testing carried out by testing based on functional errors, database errors and interface errors. So the author makes the limitations of the problem to be discussed, namely as follows:

1. Recap the achievement of daily to monthly recitations.
2. Reporting on the accumulation of tahfidz, and.
3. Research related to rote target to hatam.

2. Literature Review

2.1. Diagram Context

Diagram Konteks adalah sebuah tingkat bagian dari diagram aliran data yang digunakan untuk menetapkan konteks serta batasan sistem pada sebuah pemodelan [15].

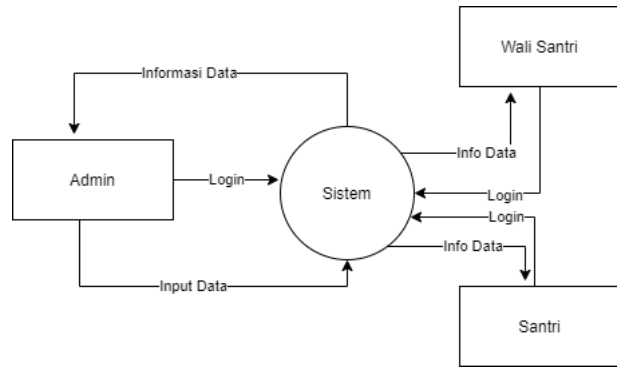


Figure 1. Context Diagram

The data entered in the system include:

1. Admin data for logging in to the application. In this application there is only one admin, namely secretarial staff. The admin who can create an account or access rights in this application is the admin, so that students and guardians of students can only enter and access information.
2. Data of members who have registered and have an account to log in to the application.
3. The target data for each student's memorization
4. Data on the results of recitations every week

2.1 Data Flow Diagram

DFD is a software system analysis model that will be implemented into a structured programming.

- DFD Level 0

Figure 2. DFD Level 0\

Figure 2 illustrates the lowest level

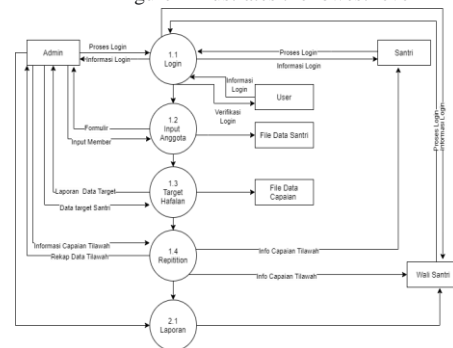


diagram that illustrates how the system interacts with external entities, including the Admin, Santri, and Guardian Santri users. The activities include login, member input, target memorization, repetition, reports, while the data required are user data, student data, and achievement data.

- DFD Level 1 Process 1 Admin Login

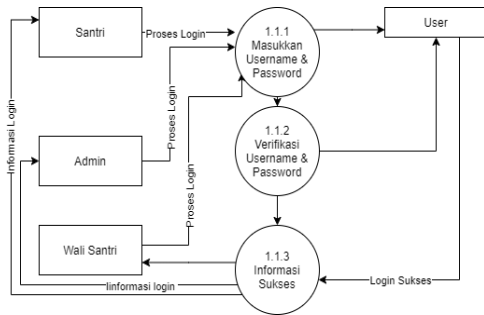


Figure 3. DFD Level 1 Login Process

Figure 3 is DFD Level 1 Login process with 4 users involved Santri, Guardian Santri, Admin, User. While the activities are entering username and password, verifying username and password, success information.

- DFD Level 1 Process 2 Member Input

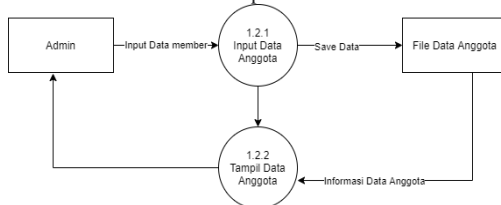


Figure 4. DFD Level 1 Process 2 Member Input

Figure 4 is DFD Level 1 Process 2 Member Input with user only Admin to input member data and display member data with the required database, namely member data.

- DFD Level 1 Process 3 Targeting

At this level, namely targeting the memorization of each student by Muhafidz/ah with bin Nadhor reading process activities, assessing reading results, bii ghoib deposit process, targeting, and announcements. The data needed for the value of students and the achievement of recitations can be seen in Figure 5.

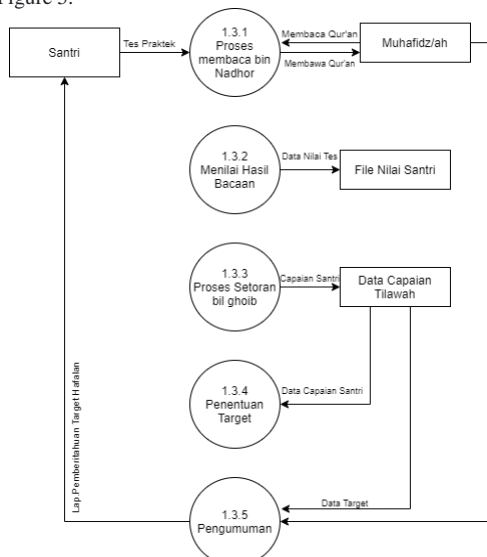


Figure 5. DFD Level 1 Process 3 Targeting

- DFD Level 1 Process 4 Recap of Recitation Results

At this level, the process of recapitulating the results of the recitation with the user involved, namely the Admin. The activity is the process of collecting the results of recitations, the process of recapitulating the results of recitations can be seen in Figure 6.

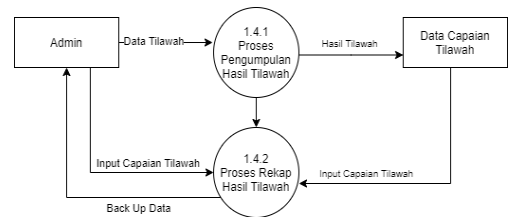


Figure 6. DFD Level 1 Process 4 Recap of Recitation Results - DFD Level 2 Recitation Result Report

At this level, the process of reporting the results of recitations with involved users, namely Admin, Guardian Santri, Santri. The activity is the finishing process, sending a report on the results of recitations with the required data on the results of recitations can be seen in Figure 7

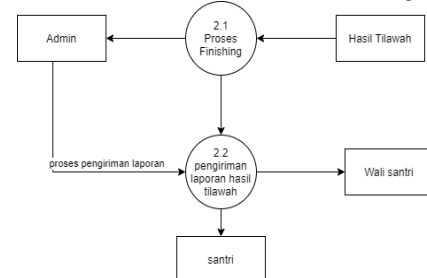


Figure 7. DFD Level 1 Process 4 Recapitulation Results

2.2. Entity Relational Diagram (ERD)

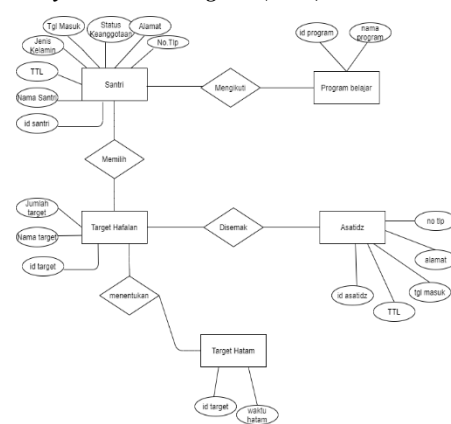


Figure 8. ERD Tahfidz Qur'an Management System

In Figure 8, the web-based Tahfidz Qur'an Management ERD in PP. Mazro'atul Lughoh by having a Santri entity can choose a rote target by determining the Hatam target, Santri can follow the learning program with their respective tables, namely student data, memorization target data, hatam target data, astidz data.

2.3. Conceptual Data Modelling (CDM)

CDM in this system has the concept of Admin managing rote targets and making learning programs and informing asatidz can be seen in Figure 9.

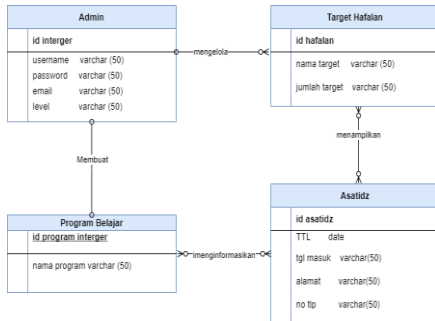


Figure 9. CDM Tahfidz Qur'an Management System

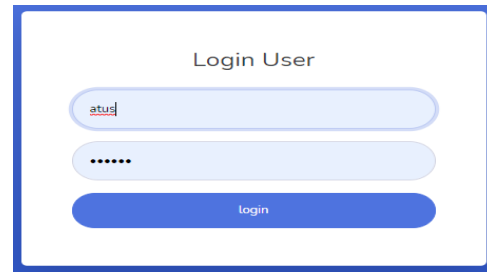


Figure 11. Login Form

In Figure 2 Login Form there are 2 TextBox. 1 for filling in the username and password. If one of the TextBoxes is filled in that does not match the data stored in the database, an error message will appear. And if the User and Password data entered are correct, it will proceed to the dashboard page. Accounts for students and guardians of students to be able to use the application used by the admin
- Form of Recitation Achievement Goals

3. Research Methods

The research methodology used is descriptive method. Descriptive method is a research method that describes the object of research in the form of existing data [14]. In descriptive research, it is not possible to manipulate and control the research variable data. Researchers collect data using several methods, namely:

1. Data Collection

Data collection is done by direct observation in the field using several techniques:

a. Interview

Techniques for collecting data and the flow of the existing system by conducting direct interviews with influential clerics and knowing the information that will be extracted

b. Observation

The data collection technique was carried out by direct observation of the object of research in completing the web-based tahfidz quran management application at the Islamic boarding school mazro"atul lughoh pare kediri.

4. Results and Discussion

At this stage will explain about the implementation and testing of the system that has been made.

1. Implementation System

At this stage is the implementation and discussion of the analysis and design of the use of the codeigniter (CI) framework version 3.1.11 and bootstrap with the theme sb admin 2 for the creation of a web-based tahfidz quran management application system at the mazro"atul lughoh pare kediri Islamic boarding school. Where to find out how to manufacture, starting from the analysis stage until the application is ready to run without a problem.

1.1 System and Program Test

1.1.1 Black Box Test

- Login Form

NO	KODE TARGET	NAMA TARGET	JUMLAH TILAWAH	NILAI	SKOR
1	THT 30 jan	Target 30 kali	20		
2	THT 20 feb	Target 20 kali	20		

Figure 12. Form of Recitation Achievement Target

Recitation Achievement sub menu from the Target & Recitation Achievement Menu. which students have to enter and fill in the non-parent on the Reach Outcome page for students to find out the data on students who have reached students according to the abilities and targets that have been determined. As in the picture drawn 14

1.1.2 White Box Test

The white box testing that will be carried out is on the login form. Identification to prove correct or incorrect password and username.

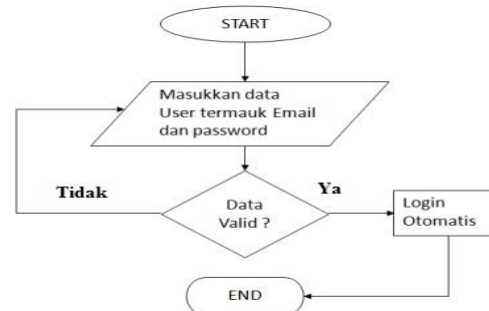
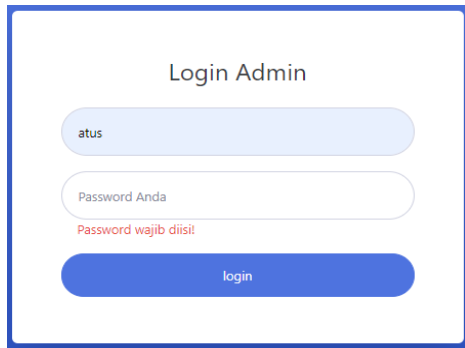


Figure 13. Login Flowchart

Enter the appropriate Username and Password, if appropriate, the Admin will proceed to the Dashboard page. But if the Admin is wrong in entering the Username or Password, an error message will appear as shown below



The screenshot shows a login form titled "Login Admin". It has two input fields: "Username" with the value "atus" and "Password Anda". Below the password field, there is a red error message: "Password wajib diisi!". At the bottom of the form is a blue "login" button.

Figure 14. Wrong Password Warning

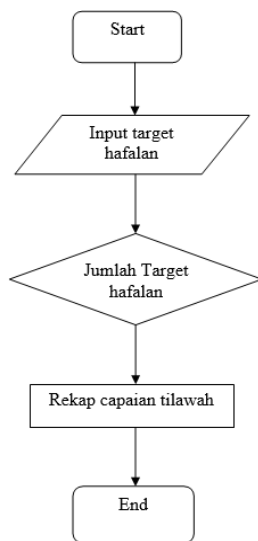


Figure 15. Wrong Password Warning

In this process all instructions must be filled with data, if the process has been carried out then the next step can also be executed.



Figure 16. User Main Menu Form

5. Conclusion

Based on the analysis that has been carried out by researchers relating to the Management of Tahfidz Al-Qur'an in Achieving the Target of Memorizing, the conclusions are as follows:

- Tahfidz management is a process or method carried out with the khatam pursuit program model for ziyadah (additional deposits), then continued with murojaah (repeating memorization) and tasmi' (playing memorization) systematically to achieve goals optimally.
- The Tahfidz Al-Quran Management System is carried out through 4 stages, namely planning learning methods, forming mentors, implementing learning, and evaluating learning. Learning planning includes memorization, learning objectives, learning programs, and time allocation. The supervisors are divided into checking teams and grouping students. The implementation of learning consists of learning activities and learning motivation. Learning evaluation is carried out through process evaluation and result evaluation.

Acknowledgements

Based on the results of the research and the conclusions above, the authors convey the following suggestions:

- The deposit recap feature is added with a rote graph so that the system can be further developed to find out the deposit recap of each student.
- There is a need for a follow-up analysis of the deposit results.

REFERENCES

- Akbar, A. & Hidayatullah, I. "The Tahfidz Al-Qur'an Method in Islamic Boarding Schools in Kumbar Regency."2016
- Amalia.Sifah. "Management of the Tahfidz Qur'an Program at the Ash-Shiddiqi Integrated Islamic Junior High School, Pemayang District, Batang Hari Regency". State Islamic University Of Sulthan Thaha Saifuddin Jambi.
- Fatmawati, E. Management of Tahfidz Al-Qur'an Learning. Isema Islamic Education Management Journal. 2019
- Haq, N. "Management of Tahfidzul Quran Learning Based on the Yaddain Method in Mi Plus Darul." Journal of Islamic Education Management, Hal: 140-156. 2019
- Hasanah, M., Haryanti, T., & Rosadi, A. "Design of a Web-Based Academic Information System (Case Study of the Tahfidz Ashabul Qur'an Institute." Scientific Journal of Computing Insight. 2019
- Hidayah, A. "Management of Tahfidz Al-Qur'an Learning in Achieving Memorizing Targets at SMP It Abu Bakar".2018
- Irma.Ibrahim.Ani." Management of the Tahfidz Al-Qur'an Program at Madrasah Aliyah (Ma) Islamic Boarding School Hidayatul Insan Fii Ta'limiddin Palangka Raya." 2020.
- Junafan, A. "Geographic Information System Search Locations for Hospitals and Police Stations Based on Android. Sidoarjo."2019
- Nidhom, Khoirun. Management of Tahfidh Al-Qur'an Learning in Printing Qur'ani Generation. Tahdzibi Journal. 2020
- Riduan.Muhammad, Maufur. Mustlah, Abdurrahman. Omon. "Management of the Tahfidz Al-Qur'an Program at Modern Islamic Boarding Schools". 2018

- [11]Kholis nur M . "Tasmim al-Wasail al-Ta'limiyah li Maharati al-Istima' khilala Android".2018
- [12] Al-Qulub, Shifa. "The Effectiveness of Muroqobah for Students' Self-Actualization.",2018.
- [13]Wasyik, T., & Hamid, A. "Implementation of E-Learning in Learning the Qur'an in the Covid-19 Era at Tahfidz Entrepreneur Studio Krian Sidoarjo".2020
- [14] Nuruddin, Ahmad. "Arabic Language Learning Curriculum Special Purpose Design Problems and Its Implementation at Uin Sunan Ampel Surabaya.".2020
- [15] Syahza, Almasdi. "Book of Research Methodology," Revised Edition 2021. [9] Darman, R. "Pembangunan Dashboard Lokasi Rawan Tanah Longsor di Indonesia Menggunakan Tableau". Jurnal Teknik Informatika Dan Sistem Informasi, Vol. 4 No. 2, Hal. 256–269. 2018.