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THE DESIGN OF MANAGEMENT INFORMATION SYSTEMS AT JAMI KAUTSAR MOSQUE

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Abstract
This research is motivated by the management of the Jami Al-Kautsar Mosque in Depok which has not been properly recorded and the data storage is scattered. These constraints have the potential for data loss and inaccurate information and a process taking a long time to produce such information. In this study, the data collection techniques used are observation, interviews and literature study. The information system built uses the waterfall method as a software development or Software Development Life Cycle (SDLC) using object-oriented design of the Unified Modeling Language (UML) and testing using Black Box. The process in this study includes the process of managing activities, managing the mosque, inventory, finances and goods (income and expenditure). The results of research implemented by the author on the Management Information System of the Jami Al-Kautsar Mosque is a system that can provide information on the management of activities, mosque administrators (human resources), inventory, finances and goods (income and expenditure) as well as communicative and informative reports so that they can make evaluation materials and transparent accountability reports from the management to all congregations of the Jami Al-Kautsar Mosque. User satisfaction with the evaluation information system uses the five-category Black Box test and produces a good information system. Three categories of Black Box testing are no errors in functions, database access and structure and system performance above 60%.

Keywords:
Design;
Systems;
Information;
Mosque Management;
Finance;

1. INTRODUCTION

Mosques have meaning in the lives of Muslims, because since the time of the Prophet Muhammad, they have become the main center for all Muslim activities. In fact, the mosque at that time became a facility for Muslims to achieve the advancement of civilization. The function of a mosque in the history of its emergence is not only for "a place of prostration" as its literal meaning, but is multifunctional as a center for educational, political, economic, social and cultural activities [1] [2].

Jami Al-Kautsar Mosque is located at Jl. Mahakam No.51, RT.3, Bakti Jaya, Sukmajaya, Depok City, West Java. The Jami Al-Kautsar Mosque has a large area so that the Jami Al-Kautsar Mosque often facilitates weddings or other activities. The Mosque Prosperity Council (DKM) of the Jami Al-Kautsar Mosque continues to improve its performance through comprehensive coaching in three areas including: management (idarah) to improve the quality of mosque organization by seeing how the mosque is managed professionally in an organized manner, development in the field of prosperity Mosque (imarah) by observing the function of the mosque in the activities of empowering the people, and fostering the maintenance of the mosque (riayah) by seeing how the physical form and infrastructure of the mosque are always properly maintained and improved [3]. Mosque administrators understand that the prosperity of the mosque lies in its empowerment activities, as an effort that must be followed while strengthening the potential or power possessed by each community [3] [4]. Many of the activities carried out by DKM Jami Al-Kautsar are not only religious in nature, so that the mosque administrators often experience difficulties in managing the data management of their activities. Documentation of activities is also not neatly recorded and communication is lacking so that there is often an overlap between one activity and another.

The inventory at the Al-Kautsar Mosque is not neatly recorded, only in the form of scribbles sometimes located in various rooms of the mosque secretariat. Mosque administrators do not often know the mosque inventory that can still be used, lost and lent to the surrounding community. Finances and goods (income and expenditure) occuring at the Jami Al-Kautsar Mosque are currently still using the method of recording in a book (paper based), where every income either in the form of money or goods is only recorded in a book. This has a big potential

for miscalculation and loss of the income list if the mosque's entry log is lost.

The mosque management (human resources) at the Jami Al-Kautsar Mosque is also one of the root problems occuring today. The list of mosque administrators is not well recorded and only has a list of the main mosque administrators printed in an organizational chart and only placed at the mosque secretariat. The list of the mosque's congregation is not recorded so that the management does not remember who can be used for activities at the mosque. The responsibility of a job is often delegated to the same people so that there is a lack of equal distribution of work in each administrator or congregation.

Technological updates in the management of the mosque system internally will make the mosque better. In this study, the information system will be built on a web-based basis so that it will make it easier for mosque administrators and congregations to access this information system. In addition to easy access, this information system can help make it easier for mosque administrators to manage data and provide information in a transparent, fast and accurate manner to the public through the information system created.

II. THEORETICAL BASIS

2.1. Information System

Information systems, namely collecting, processing, storing, analyzing, disseminating information for specific purposes. Like other systems, an information system consists of input (data, instructions) and output (reports, calculations). Information systems process input and produce output sent to users or other systems. A reciprocal mechanism controlling operations can be included as well. Like any other system, an information system operates in an environment. In studying information systems, it is necessary to know about the differences in data, information, and knowledge [7] [9] [10].

2.2. Management

Management comes from the word to manage meaning to organize. In regulating matters, problems, processes and questions will arise about what is regulated, who regulates, why should it be regulated and what is the purpose of the arrangement. Management also analyzes, sets goals / objectives and determines tasks and obligations properly [8].

2.3. Definition of a mosque

Estimologically, a mosque is a place to prostrate, in the framework of worshiping Allah SWT or a place to offer prayers. Meanwhile, sociologically the mosque developing in Islamic society in Indonesia is a certain place or building intended for Muslims to pray, consisting of obligatory prayers and sunnah prayers, either individually or in congregation. Basically, mosque is not only used as places of worship, but mosque also plays a role as a center for community and Muslim community activities including coaching, education, learning, community empowerment, and big day celebration activities.

Strengthening the capacity of administrators in mosques is divided into three areas, namely [6]
- The field of organizational management (Idarah).
The developments are:

- Idaratu binail maddiyyi, physical management including structural management, development arrangements, guarding of honor, cleanliness, order, beauty, maintenance of order, peace, financial and administrative arrangements, and maintenance of the attractiveness of the mosque in inviting worshipers to come.
- Idaratu binair ruhiyyi, including the regulation of the implementation of the function of the mosque as a place or forum for community guidance, as a center for community development through education and teaching (majlis taklim).
- Mosque prosperity management (imarah)
- Facility and infrastructure management (ri'ayah)

2.4. Basic Inventory Concepts

Assets in a company are of two types: current assets and fixed assets. Current assets are company assets having a useful life of less than one year. Meanwhile, fixed assets are company assets having a useful life of more than one year [13].

III. RESEARCH METHOD

This study uses the following methods: waterfall, observation, interviews, literature study and Black-Box Testing. The system design is based on data obtained from observations, interviews and literature studies. The author directly observes the input process and activity data management, mosque management, inventory, finances and goods (income and expenditure). The weterfall method is a software development carried out by research stages, namely:

- Analysis
- Design
- Encoding
- Testing
- Implementation [5] [11] [14].

Black-Box Testing is a software testing technique focusing on the functional specifications of the software. Blackbox Testing works by ignoring the control structure so that attention is focused on domain information. Blackbox Testing allows software developers to create a set of input conditions that will train all the functional requirements of a program [12].

Jurnal TAM (Technology Acceptance Model) Volume 12, Nomor 1, Juli 2021 Hal. 1-8
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IV. RESULTS AND DISCUSSION

At this stage the researchers discuss the design of the Jami Al-Kautsar Mosque Management Information System starting from system modeling and implementation.

System Modeling

System modeling in designing uses the Unified Modeling Language (UML) diagram.

Use case Diagram

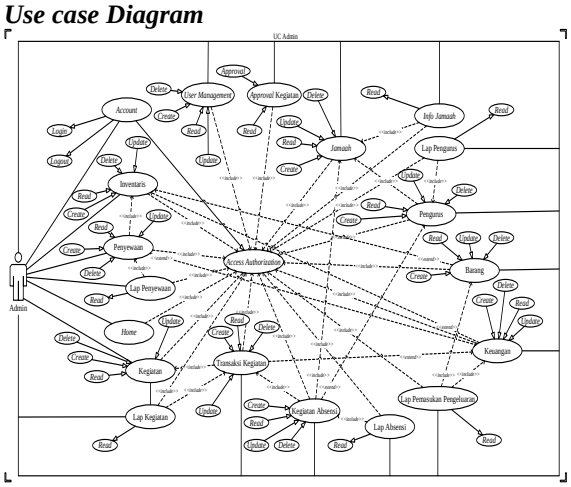

Figure 1. Use case Diagram

Activity Diagram Login

Figure 2 describes the login activity flow. If the authentication process is successful, the user will be directed to the home page.

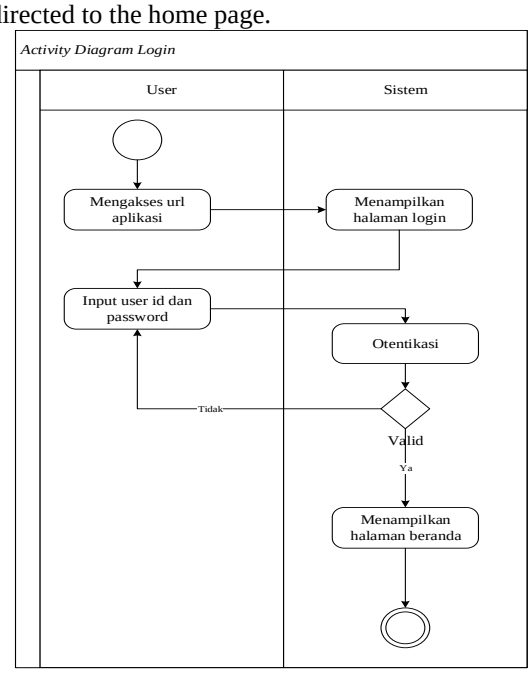

Figure 2. *Activity Diagram Login*

Activity Diagram of Management

Figure 3 describes the flow of management transaction activities carried out by users with the role of admin or secretary or takmir.

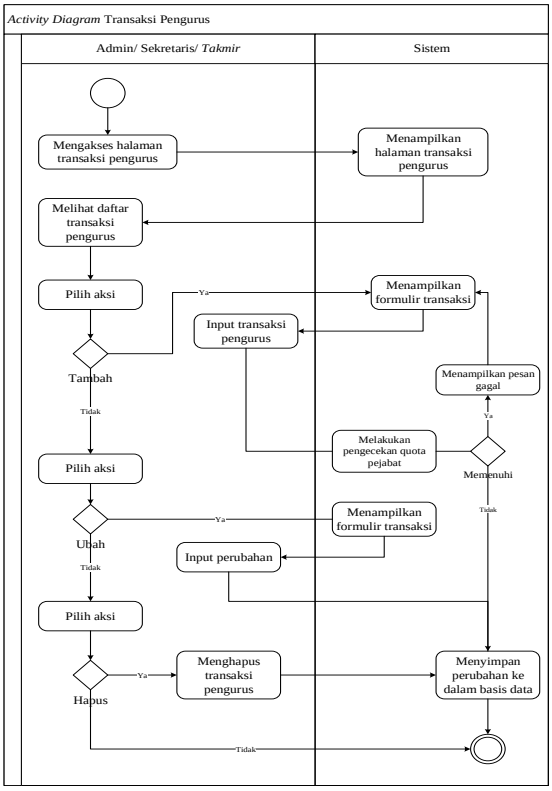

Figure 3. Activity Diagram of Management

Activity Diagram (Activity)

Figure 4 describes the flow of activity transactions carried out by users with the role of admin or secretary or takmir.

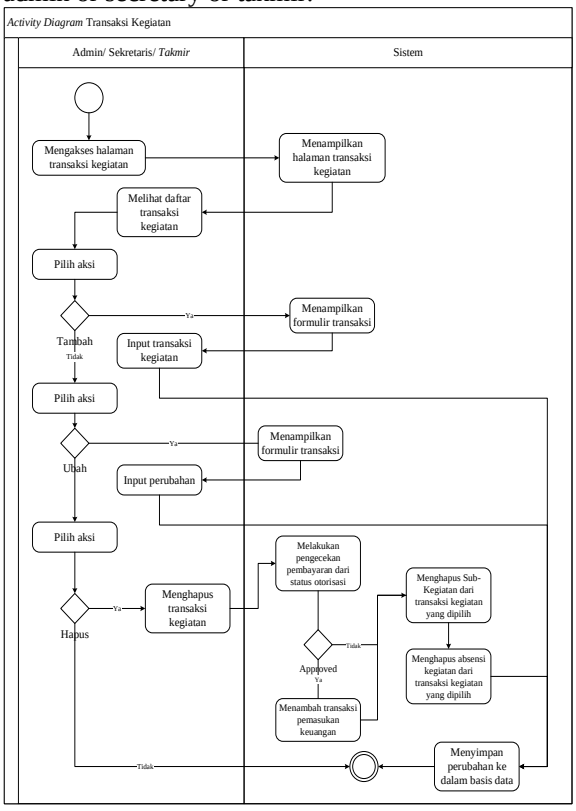

Figure 4. Activity Diagram (Activity)

Jurnal TAM (Technology Acceptance Model) Volume 12, Nomor 1, Juli 2021 Hal. 1-8
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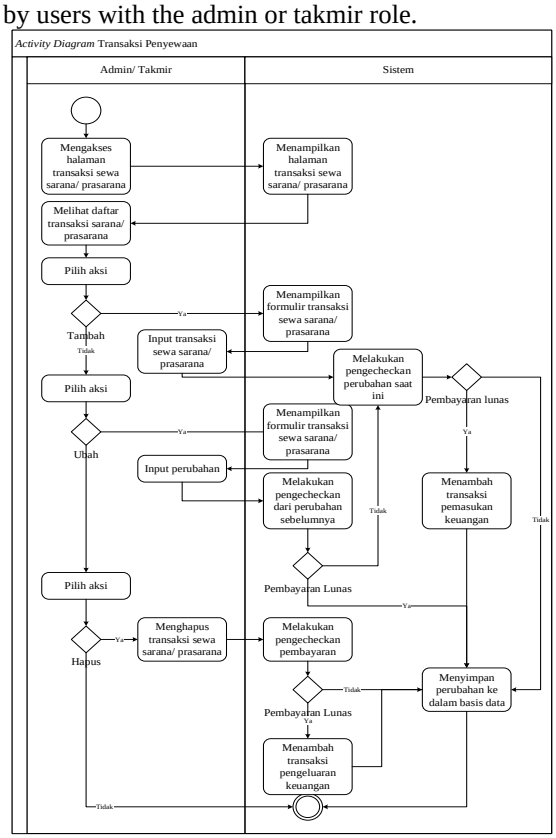
Activity Diagram of Rental

Figure 5 describes the flow of inventory (facilities) or infrastructure lease transaction activities carried out by users with the admin or takmir role.



Gambar 5. Activity Diagram of Rental

Activity Diagram of Income and Expenditure

Figure 6 describes the flow of financial transaction activities (income and expenditure) carried out by users in the role of admin or treasurer.

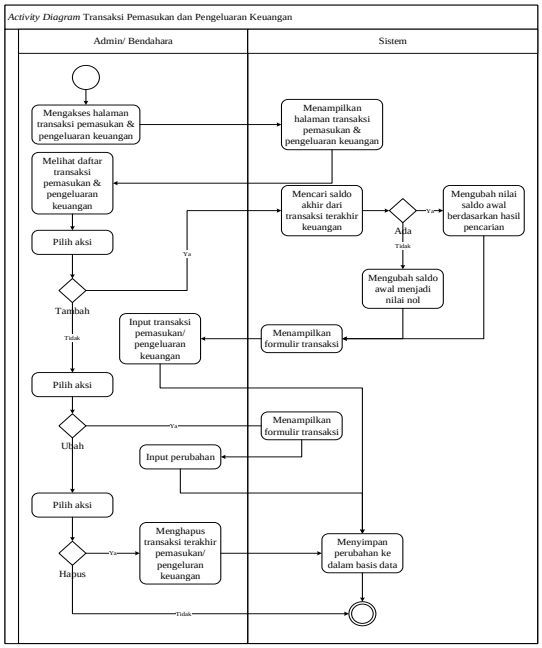


Figure 6. *Activity Diagram* Income and Expenditure

Display Page of Homepage

On the homepage there is information on the final financial balance, expenses for the current month and the total congregation of the mosque as well as a calendar feature for activities. Display in figure 7.

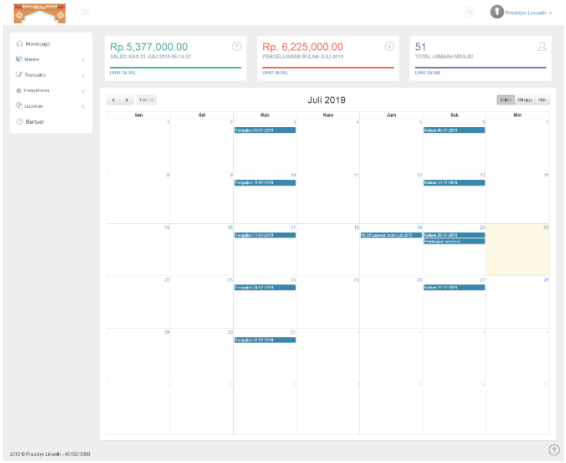


Figure 7. Display of *Homepage*

Display of Management Input of Transaction

This feature is used to manage the administrator's transaction data, equipped with the facility of adding, changing and deleting data. Display in figure 8.

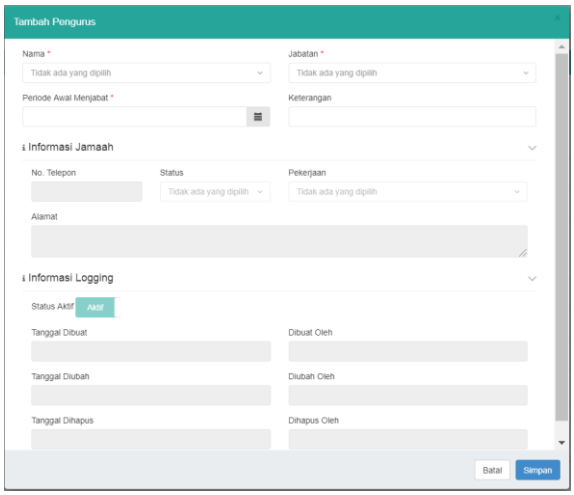


Figure 8. Display of Management Input of Transactions

Display of Input of Activity Transaction

This feature is used to manage activity transaction data equipped with the facility to add, modify and delete data. Display in figure 9.

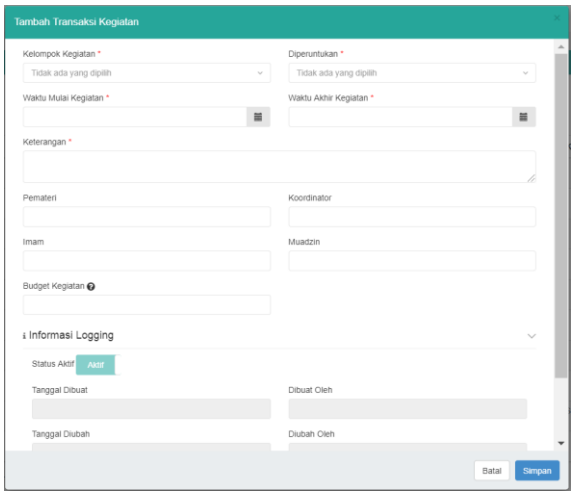


Figure 9. Display of Input of Activity Transaction

Display of Input of Rental Transaction

This feature is used to manage data on rental transactions for facilities (inventory) and infrastructure equipped with facilities for adding, changing and deleting data. Display in figure 10.

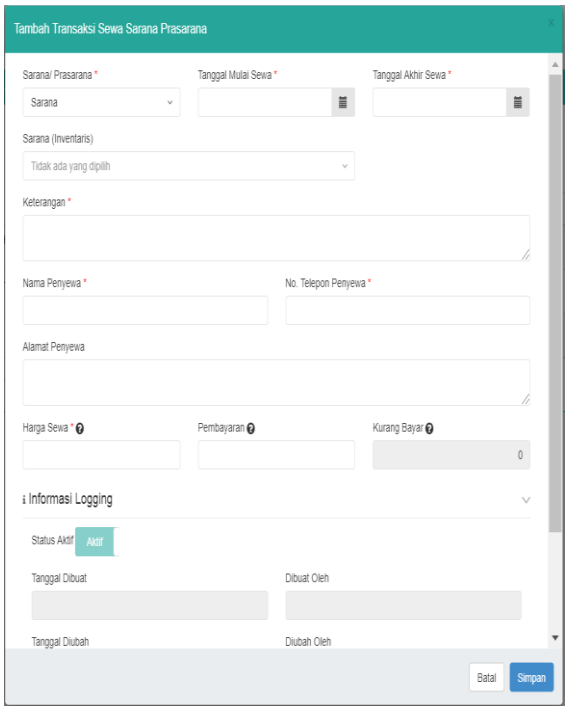


Figure 10. Display of Input of Rental Transactions

Display of Input of Financial Income and Expenditure Transactions
This feature is used to manage financial income and expenditure transaction data, which is equipped with the facility to add, change and delete data. Display in figure 11.

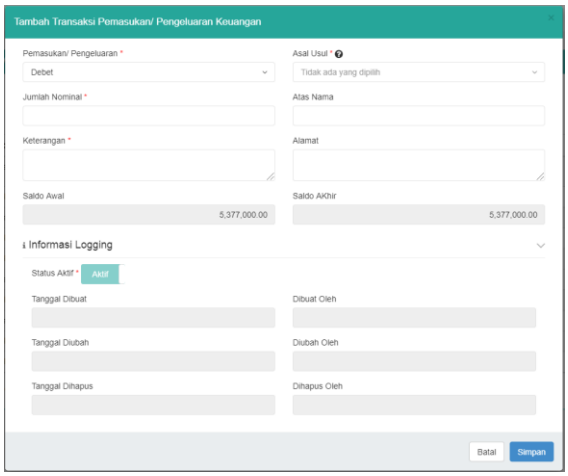


Figure 11. Display of Input of Financial Income and Expenditure Transaction

Display of Input of Transaction for the Entry and Issuance of Goods
This feature is used to manage transaction data for the entry and expenditure of goods equipped with the facilities for adding, changing and deleting data. Display in figure 12.

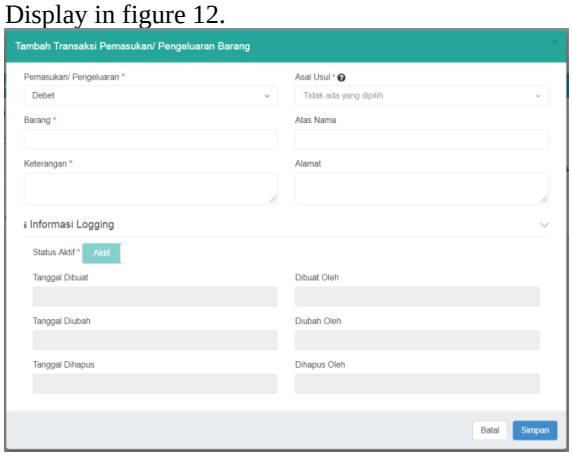


Figure 12. Display of Input of Transaction for the Entry and Issuance of Goods

Output Reports

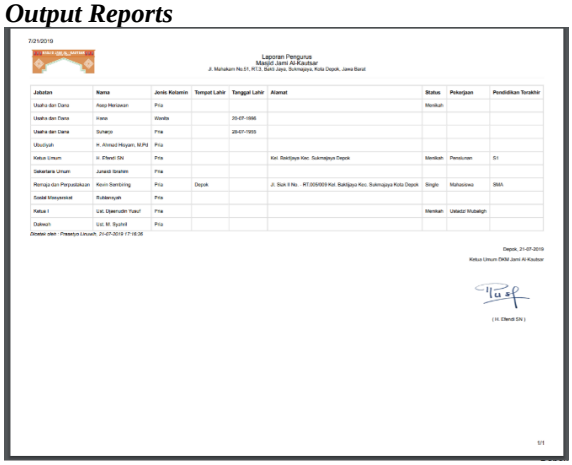


Figure13. Management Report

Jurnal TAM (Technology Acceptance Model) Volume 12, Nomor 1, Juli 2021 Hal. 1-8
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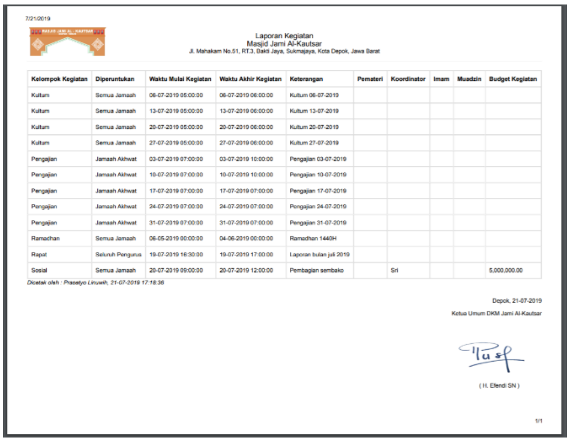


7/21/2019

Laporan Kegiatan
Masjid Jami Al-Kautsar
Jl. Mahakam No.51, RT.3, Bakti Jaya, Sukmajaya, Kota Depok, Jawa Barat

Kelompok Kegiatan	Diperuntukan	Waktu Mulai Kegiatan	Waktu Akhir Kegiatan	Keterangan	Pemateri	Koordinator	Imam	Muadzin	Budget Kegiatan
Kultum	Semua Jamaah	06-07-2019 05:00:00	06-07-2019 06:00:00	Kultum 06-07-2019					
Kultum	Semua Jamaah	13-07-2019 05:00:00	13-07-2019 06:00:00	Kultum 13-07-2019					
Kultum	Semua Jamaah	20-07-2019 05:00:00	20-07-2019 06:00:00	Kultum 20-07-2019					
Kultum	Semua Jamaah	27-07-2019 05:00:00	27-07-2019 06:00:00	Kultum 27-07-2019					
Pengajian	Jamaah Akhwat	03-07-2019 07:00:00	03-07-2019 10:00:00	Pengajian 03-07-2019					
Pengajian	Jamaah Akhwat	10-07-2019 07:00:00	10-07-2019 10:00:00	Pengajian 10-07-2019					
Pengajian	Jamaah Akhwat	17-07-2019 07:00:00	17-07-2019 07:00:00	Pengajian 17-07-2019					
Pengajian	Jamaah Akhwat	24-07-2019 07:00:00	24-07-2019 07:00:00	Pengajian 24-07-2019					
Pengajian	Jamaah Akhwat	31-07-2019 07:00:00	31-07-2019 07:00:00	Pengajian 31-07-2019					
Ramadhan	Semua Jamaah	06-05-2019 00:00:00	04-06-2019 00:00:00	Ramadhan 1440H					
Rapat	Seluruh Pengurus	19-07-2019 16:30:00	19-07-2019 17:00:00	Laporan bulan juli 2019					
Sosial	Semua Jamaah	20-07-2019 09:00:00	20-07-2019 12:00:00	Pembagian sembako		Sri			5,000,000.00

Dicetak oleh : Prasetyo Linuwih, 21-07-2019 17:18:36

Depok, 21-07-2019
Ketua Umum DKM Jami Al-Kautsar

(H. Efendi SN)

1/1

Figure14. Activity Report

7/21/2019

Laporan Sub-Kegiatan
Masjid Jami Al-Kautsar
Jl. Mahakam No.51, RT.3, Bakti Jaya, Kota Depok, Jawa Barat

Kegiatan : Ramadhan 1440H
Periode : 06-05-2019 00:00:00 sampai dengan 04-06-2019 00:00:00
Diperuntukan : Semua Jamaah

Waktu	Koordinator	Pemateri	Imam	Muadzin
06-05-2019 00:00:00	Bimo Widagdo		H. Efendi SN	Bimo Widagdo

Dicetak oleh : Prasetyo Linuwih, 21-07-2019 17:21:04

Depok, 21-07-2019
Ketua Umum DKM Jami Al-Kautsar

(H. Efendi SN)

1/1

Figure 15. Sub-Activity Reports

7/21/2019

Daftar Kehadiran
Masjid Jami Al-Kautsar
Jl. Mahakam No.51, RT.3, Bakti Jaya, Kota Depok, Jawa Barat

Kegiatan : Pengajian 31-07-2019
Periode : 31-07-2019 07:00:00 sampai dengan 31-07-2019 07:00:00
Diperuntukan : Semua Jamaah

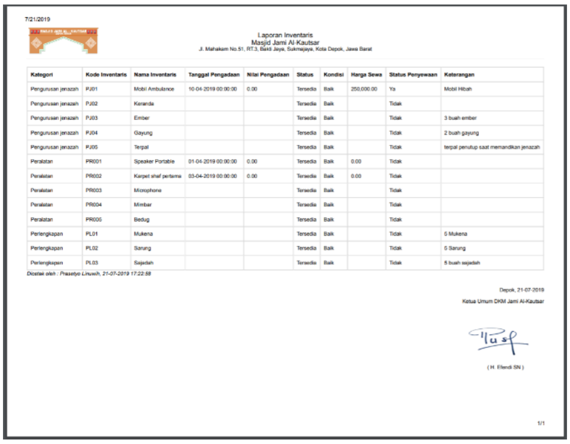
No.	Jamaah	No. Telepon	Alamat	Tanda Tangan
1	Hana			
2	Hj. Farida Yayat			
3	Hj. Neni Suhaeni, SE.			
4	monita			
5	Nida marsiliona			
6	Nurnahari			
7				
8				
9				
10				
11				

Dicetak oleh : Prasetyo Linuwih, 21-07-2019 17:22:02

Depok, 21-07-2019
Ketua Umum DKM Jami Al-Kautsar

1/2

Figure 16. Report of Activity Attendance List



7/21/2019

Laporan Inventaris
Masjid Jami Al-Kautsar
Jl. Mahakam No.51, RT.3, Bakti Jaya, Sukmajaya, Kota Depok, Jawa Barat

Kategori	Kode Inventaris	Nama Inventaris	Tanggal Pengadaan	Nilai Pengadaan	Status	Kondisi	Harga Sewa	Status Penyewaan	Keterangan
Pengurusan jenazah	PJ01	Mobil Ambulance	10-04-2019 00:00:00	0.00	Tersedia	Baik	250,000.00	Ya	Mobil Hibah
Pengurusan jenazah	PJ02	Keranda			Tersedia	Baik		Tidak	
Pengurusan jenazah	PJ03	Ember			Tersedia	Baik		Tidak	3 buah ember
Pengurusan jenazah	PJ04	Gayung			Tersedia	Baik		Tidak	2 buah gayung
Pengurusan jenazah	PJ05	Terpal			Tersedia	Baik		Tidak	terpal penutup saat memandikan jenazah
Peralatan	PR001	Speaker Portable	01-04-2019 00:00:00	0.00	Tersedia	Baik	0.00	Tidak	
Peralatan	PR002	Karpet shaf pertama	03-04-2019 00:00:00	0.00	Tersedia	Baik	0.00	Tidak	
Peralatan	PR003	Microphone			Tersedia	Baik		Tidak	
Peralatan	PR004	Mimbar			Tersedia	Baik		Tidak	
Peralatan	PR005	Bedug			Tersedia	Baik		Tidak	
Perlengkapan	PL01	Mukena			Tersedia	Baik		Tidak	5 Mukena
Perlengkapan	PL02	Sarung			Tersedia	Baik		Tidak	5 Sarung
Perlengkapan	PL03	Sajadah			Tersedia	Baik		Tidak	5 buah sajadah

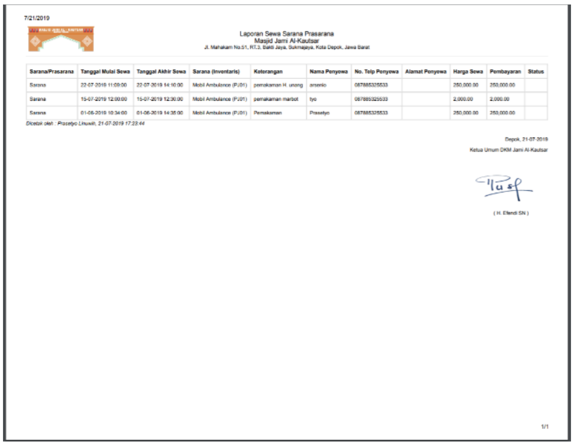
Dicetak oleh : Prasetyo Linuwih, 21-07-2019 17:22:58

Depok, 21-07-2019
Ketua Umum DKM Jami Al-Kautsar

(H. Efendi SN)

1/1

Figure17. Inventory Report



7/21/2019

Laporan Sewa Sarana Prasarana
Masjid Jami Al-Kautsar
Jl. Mahakam No.51, RT.3, Bakti Jaya, Sukmajaya, Kota Depok, Jawa Barat

Sarana/Prasarana	Tanggal Mulai Sewa	Tanggal Akhir Sewa	Sarana (Inventaris)	Keterangan	Nama Penyewa	No. Telp Penyewa	Alamat Penyewa	Harga Sewa	Pembayaran	Status
Sarana	22-07-2019 11:09:00	22-07-2019 14:10:00	Mobil Ambulance (PJ01)	pemakaman H. unang	arsenio	087885325533		250,000.00	250,000.00	
Sarana	15-07-2019 12:00:00	15-07-2019 12:30:00	Mobil Ambulance (PJ01)	pemakaman marbot	tyo	087885325533		2,000.00	2,000.00	
Sarana	01-06-2019 10:34:00	01-06-2019 14:35:00	Mobil Ambulance (PJ01)	Pemakaman	Prasetyo	087885325533		250,000.00	250,000.00	

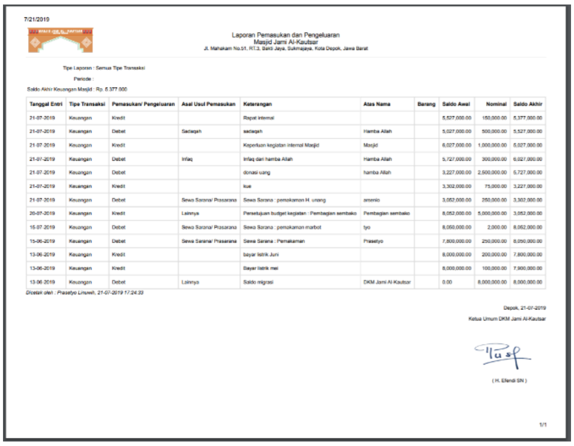
Dicetak oleh : Prasetyo Linuwih, 21-07-2019 17:23:44

Depok, 21-07-2019
Ketua Umum DKM Jami Al-Kautsar

(H. Efendi SN)

1/1

Figure 18. Rental Report



7/21/2019

Laporan Pemasukan dan Pengeluaran
Masjid Jami Al-Kautsar
Jl. Mahakam No.51, RT.3, Bakti Jaya, Sukmajaya, Kota Depok, Jawa Barat

Tipe Laporan : Semua Tipe Transaksi
Periode :
Saldo Akhir Keuangan Masjid : Rp. 5.377.000

Tanggal Entri	Tipe Transaksi	Pemasukan/ Pengeluaran	Asal Usul Pemasukan	Keterangan	Atas Nama	Barang	Saldo Awal	Nominal	Saldo Akhir
21-07-2019	Keuangan	Kredit		Rapat internal			5,527,000.00	150,000.00	5,377,000.00
21-07-2019	Keuangan	Debet	Sadaqah	sadaqah	Hamba Allah		5,027,000.00	500,000.00	5,527,000.00
21-07-2019	Keuangan	Kredit		Keperluan kegiatan internal Masjid	Masjid		6,027,000.00	1,000,000.00	5,027,000.00
21-07-2019	Keuangan	Debet	Infaq	Infaq dari hamba Allah	Hamba Allah		5,727,000.00	300,000.00	6,027,000.00
21-07-2019	Keuangan	Debet		donasi uang	hamba Allah		3,227,000.00	2,500,000.00	5,727,000.00
21-07-2019	Keuangan	Kredit		kue			3,302,000.00	75,000.00	3,227,000.00
21-07-2019	Keuangan	Debet	Sewa Sarana/ Prasarana	Sewa Sarana : pemakaman H. unang	arsenio		3,052,000.00	250,000.00	3,302,000.00
20-07-2019	Keuangan	Kredit	Lainnya	Persetujuan budget kegiatan : Pembagian sembako	Pembagian sembako		8,052,000.00	5,000,000.00	3,052,000.00
15-07-2019	Keuangan	Debet	Sewa Sarana/ Prasarana	Sewa Sarana : pemakaman marbot	tyo		8,050,000.00	2,000.00	8,052,000.00
15-06-2019	Keuangan	Debet	Sewa Sarana/ Prasarana	Sewa Sarana : Pemakaman	Prasetyo		7,800,000.00	250,000.00	8,050,000.00
13-06-2019	Keuangan	Kredit		bayar listrik Juni			8,000,000.00	200,000.00	7,800,000.00
13-06-2019	Keuangan	Kredit		Bayar listrik mei			8,000,000.00	100,000.00	7,900,000.00
13-06-2019	Keuangan	Debet	Lainnya	Saldo migrasi	DKM Jami Al-Kautsar		0.00	8,000,000.00	8,000,000.00

Dicetak oleh : Prasetyo Linuwih, 21-07-2019 17:24:33

Depok, 21-07-2019
Ketua Umum DKM Jami Al-Kautsar

(H. Efendi SN)

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Figure 19. Income and Expenditure Report

Black Box Testing

Software testing using the Black Box method, focuses on functional specifications using five categories: (1) incorrect or missing functions, (2) interface errors, (3) data structure errors / database access, (4)) performance errors, (5) initialization and termination errors. The evaluation is carried out in the form of a questionnaire resulting from the respondents as follows:

- There are no errors found in the functions of 64.0%
- No interface errors are found by 55.8%
- 63.8% of database and data structure access errors are not found
- No 63.8% system performance errors are found
- No initialization and termination errors are found of 58.9%

It can be concluded that the evaluation of the system made in the three categories above 60% said that the system is good.

V. CONCLUSION

Based on testing and design in making this system management, it can be concluded:

1. The Management Information System for the Jami Al-Kautsar Mosque can provide information on the schedule of activities that do not overlap anymore.
2. The Jami Al-Kautsar Mosque Management Information System can provide inventory information as well as a communicative and informative rental process.
3. The Management Information System for the Jami Al-Kautsar Mosque provides informative reports and a high level of accuracy of any existing management processes. With these reports, the mosque management can inform the congregation as a form of transparency to the congregation

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