# Santa Maria Ratu Rosari Parish Information System Tanjung Selamat Medan

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**A B S T R A C T**

The church is an organization engaged in community service. The church also has an information management system including the management, storage, and presentation of data. The service management system of the Santa Maria Ratu Rosari Parish Tanjung Selamat Medan is still manual which causes ineffective and efficient services. The purpose of this research is to design a web-based service management information system for members of the congregation to support every church service activity to the people. The system design method used is the Waterfall method with the design model using Unified Modeling Language (UML) diagrams. The results of the system design in this study display information about the church and its servants, information on church activities, people, articles, registration services for members of the congregation, registration data reports presented in graphic form, as well as the management of all congregational data and church data.

## INTRODUCTION

In this era of human needs will spur the rapid development of technology in the field of information and technology and telecommunications. Increasing technology is supported by adequate facilities and infrastructure, proving that now information has fulfilled the basic needs of human life. Information systems and information technology in this case serves as a support for making the right decisions based on available information. With the development of information technology that exists today, humans can perform data processing easily, can produce the required information accurately and time-effectively, and the costs incurred are more efficient. This is the advantage that makes information technology currently participates in many fields and aspects of life, and develops according to the needs of the community, from companies, institutions, to places of worship that previously only implemented manual systems (non-computerized) began to shift to computerization in various fields. field

This also happens in a church. The application of a computerized system has also proven to produce various functions from the congregation to church office workers. The information system is also a software that was created as a means to help facilitate the process of delivering information, one of the most widely implemented information systems is a web-based system. In the problems that exist in the Santa Maria Ratu Rosari Parish Church in Medan, the author takes a picture of the delivery of church information that has not been computerized

Previously, the Parish Church of Santa Maria Ratu Rosari Medan still used a non-computerized system for church data needs. So we need an information system that does not require a lot of time and is efficient and easy to accept anywhere and anytime. By looking at some of the shortcomings in the delivery of information quickly, therefore the author tries to provide views and solutions by creating an information system for the Santa Maria Ratu Rosari Parish Medan by using the waterfall method.

## METHOD

In completing a research, it is necessary to make a step and stage so that the research is in accordance with the needs and completed in a predetermined time, as for the research methodology carried out in this study are:
1. Survey / Interview.
   In this stage, the writer conducts an initial survey to find out the performance of the church so far and the problems that arise.
2. Literature Study.
   In this stage, the collection of materials that are more theoretical in nature as additional information is carried out.
3. System Analysis.
   In this stage, an analysis of the system requirements and the capabilities/facilities required in the website creation process is carried out.
4. System Design.

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In this stage, a system design is carried out to solve existing problems based on the results of the analysis.
5. Implementation and Evaluation.
   In this stage, testing of the resulting system and error handling is carried out as well as assisting the learning process of church staff in understanding the resulting application.
6. Reporting.
   In this stage, the documentation process of all the work that has been done is carried out.

## RESULTS AND DISCUSSION

Use case diagram of system design which includes administrator and community actors.
1. Administrator Use Case Diagram
   The administrator use case diagram will explain the activities that can be carried out by admin actors in the system to be built. The administrator use case diagram can be seen as shown in Figure 1.
2. People's Use Case Diagram
   The community use case diagram will explain the activities that can be carried out by community actors in the system to be built. The use case diagram of the people can be seen as shown in Figure 2.
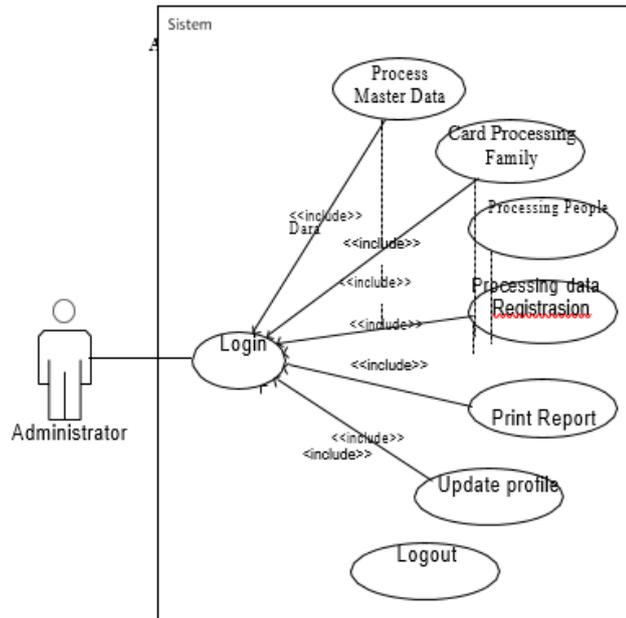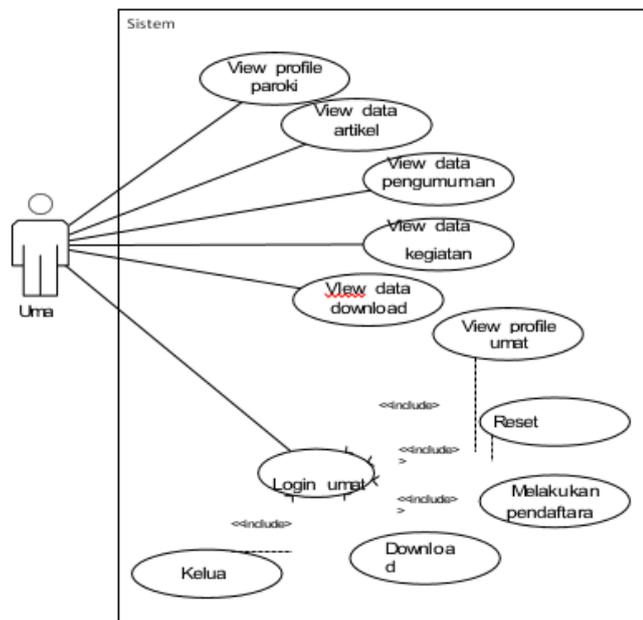


Figure 1 Administrator Use Case Diagram



Figure 2 Umat Use Case Diagram

1. Home Form

This page is the page that first appears when the system is visited by a visitor. The main display form can be seen in Figure 3
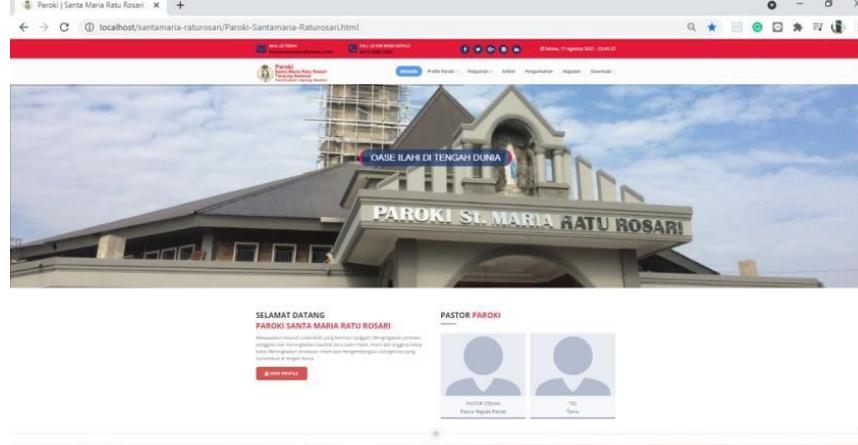


Figure 3 View Home

2. Parish Profile Form

This page is a display that contains a summary or brief explanation of the history of the founding of the church, its vision and mission, organizational structure, parish priest board, station, environment, parish employees related to the church itself. The main display form can be seen in Figure 4.
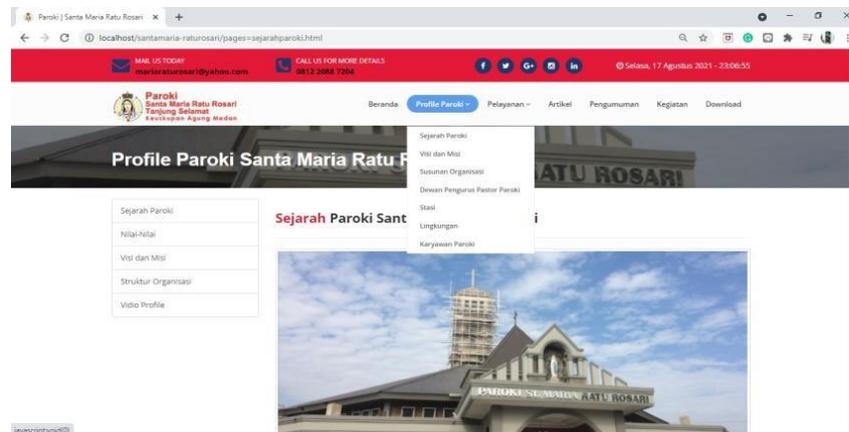


Figure 4. Profile Paroki

3. Service Form

The service page form is a login interface where the user can log in by entering a username and password, and after entering the parishioner's account can change the parishioner's account profile, change the congregation's password and can access service registrations such as infant baptism registration, adult baptism registration, first communion registration. , registration of strengthening/ chrism, registration of adult catechumens/ official acceptance, registration of marriage preparation courses, marriage registration forms. The main display form can be seen in Figure 5.
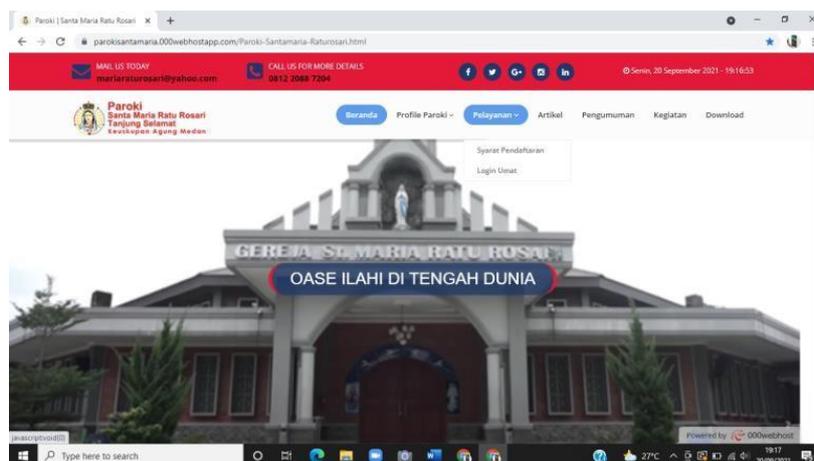


Figure 5. Service Form

4. Article form

This page is a display of a complete factual essay made for publication with the aim of conveying ideas and facts. The main display form can be seen in Figure 6
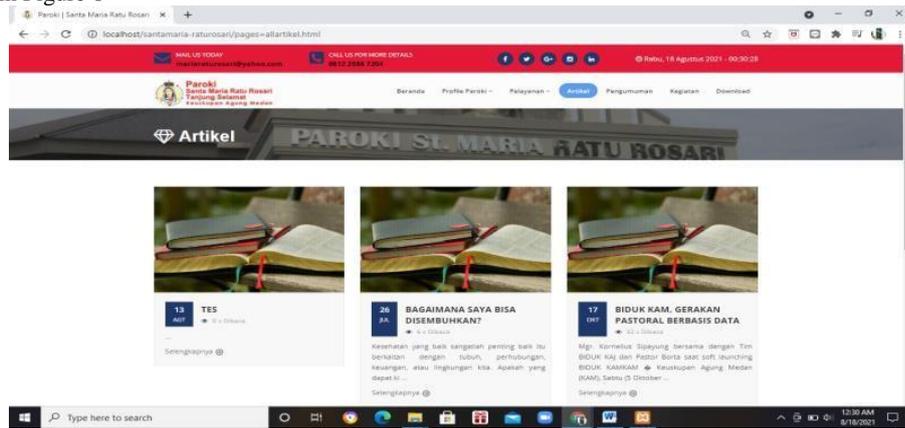


Figure 6. Artikel

5. Announcement Form

This page is a display that contains notifications or information shown on the page. The main display form can be seen in Figure 7.
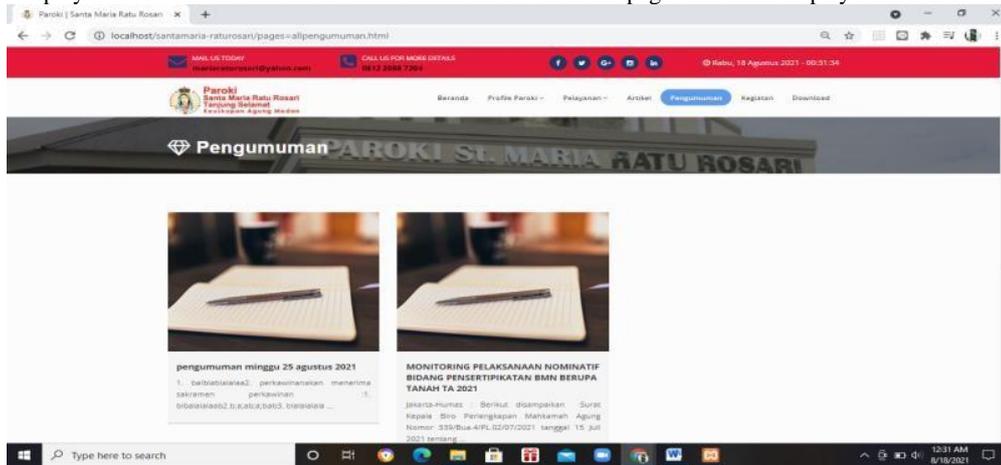


Figure 7. Announcement

6. Activity Form

This page is a display that contains a series of activities related to the church itself. The main display form can be seen in Figure 8.
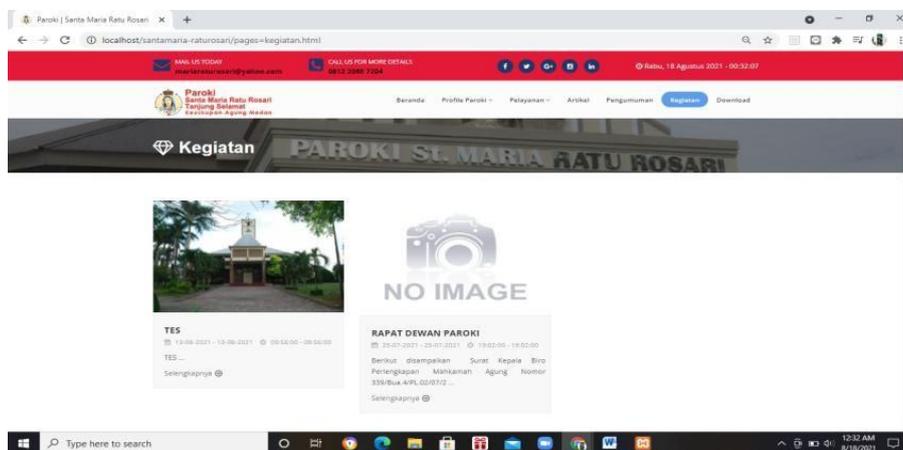


Figure 8. Activity Paroki

7. Church Document Download Form

This page is a display for receiving or retrieving files that have been specified. The main display form can be seen in Figure 9.
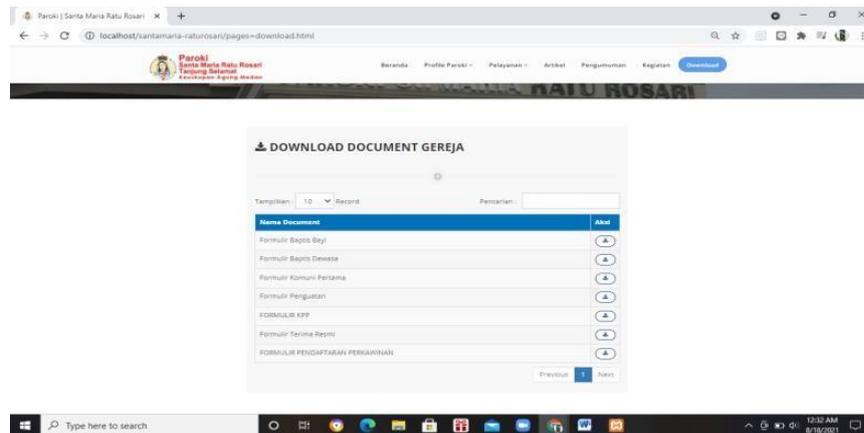
Figure 9. Download Church Documents

8.  Form Login Admin

Halaman ini merupakan halaman masuk ke sistem sebagai admin untuk mengelola semua data pada sistem. Bentuk tampilan utamanya dapat dilihat pada Gambar 10.
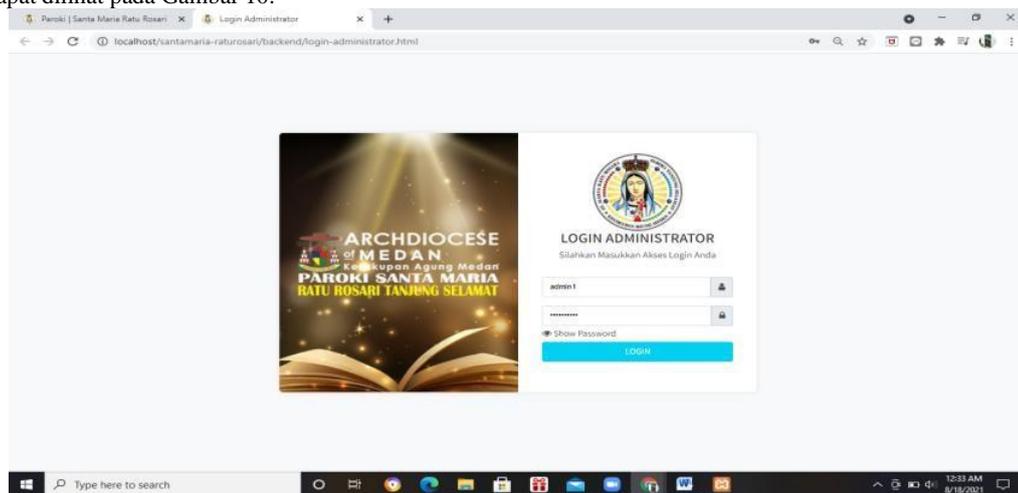

Figure 10. Login Admin

9. Admin Dashboard Form

This page is an admin dashboard display. Where Admin can process data and see the entire data of the people. The main display form can be seen in Figure 11.
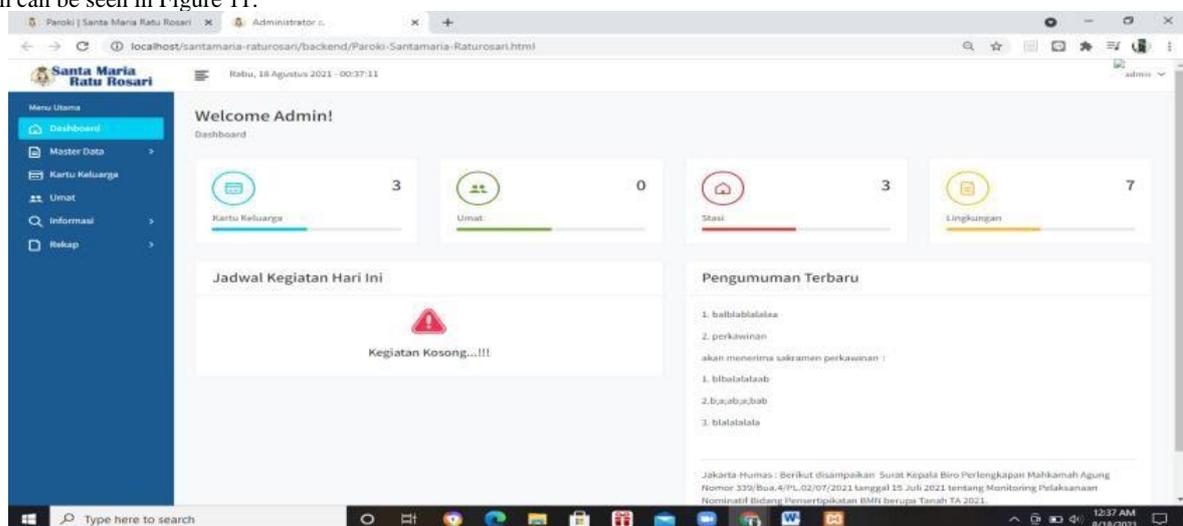

Figure 11. Dashboard Admin

## CONCLUSIONS

Based on research that has been done at the Santa Maria Ratu Rosari Catholic Church, Tanjung Selamat Medan, it can be concluded that the church information system website that was created only includes church information, and can help make it easier for users to get information faster.

## REFERENCES

[1] Ayu, F. and Permatasari, N. (2018) 'perancangan sistem informasi pengolahan data PKL pada divisi humas PT pegadaian', *Jurnal Infra tech*, 2(2), pp. 12–26Availableat :http://journal.amikmahaputra.ac.id/index.php/JIT/article/download/33/25.

[2] Sihotang, H. T. (2019) 'Sistem Informasi Pengagendaan Surat Berbasis Web Pada Pengadilan Tinggi Medan', 3(1), pp. 6–9. doi: 10.31227/osf.io/bhj5q.

[3] Supriadi, I. and Clara Santi, I. (2018) 'BERBASIS WEB DAN SMS GATEWAY Fakultas Ilmu Komputer dan Manajemen - Universitas Sains dan Teknologi Jayapura', 6(1), pp. 1–8.

[4] Rupilele, F. G. john (2018) 'Perancangan Sistem Informasi Manajemen Pelayanan Anggota Jemaat, Baptisan, dan Pernikahan Berbasis Web (Studi Kasus: Gekari Lembah Pujian Kota Sorong)', *Jurnal Teknologi Informasi dan Ilmu Komputer*, 5(2), p. 147. doi: 10.25126/jtiik.201852685.

[5] Lumintang y. T., Lumenta a., dan Lantang O. 2015. Rancang Bangun Web Service Sistem Informasi Terintegrasi Gereja Masehi Injili di Minahasa (Studi Kasus: Gereja Gmim Getsemani Lansot). E- Journal Teknik Informatika,vol.5.no.1,16.Tersediadi:<https://ejournal.unsrat.ac.id/index.php/informatika/article/vie w/8313> [Diakses 30 November 2017]

[6] Tambunan, G.D., Somya, r., 2013. Perancangan dan Implementasi Sistem Informasi Manajemen Anggota Gereja Berbasis Web Menggunakan Teknologi HMVC (Studi Kasus: Gereja GKI Calvaria Angksapura-Jayapura UKSW, Salatiga, Tersedia di:
< http://repository.uksw.edu/handle/1234567 89/3874> Tersedia di: [Diakses 30 November 2017]