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# Web-Based Information System for Community Organization Registration at Kesbangpol Office of Pariaman City

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## A B S T R A C T

This study aims to design and develop a web-based Organization Registration Information System (Ormas) for the Kesbangpol Office in Pariaman City to simplify the registration and renewal process of the Certificate of Registration (SKT). The system was developed to overcome issues in the manual process, such as physical document submissions, slow data verification, and unstructured record-keeping. Using the Waterfall method and development tools such as PHP programming language and MySQL database, this system improves public service efficiency, speeds up verification processes, and organizes organization data effectively. The system is equipped with an admin dashboard, and online registration forms to facilitate easy access for organizations. The results of this research show that the system supports efficient, effective, and accountable management of organizational data.

## Contribution to Sustainable Development Goals (SDGs):

**SDG 9:** Industry, Innovation and Infrastructure

**SDG 11:** Sustainable Cities and Communities

**SDG 16:** Peace, Justice, and Strong Institutions

## 1. INTRODUCTION

### 1.1. Research Background

The rapid development of information technology and the internet has significantly transformed various sectors, including public administration. Government institutions are increasingly shifting from manual systems to digital-based systems to improve service efficiency, speed, and accuracy. Digitalization in government bureaucracy, particularly in the management of Community Organizations (Organisasi Kemasyarakatan/Ormas), enables the automation of registration and data management processes. This transformation reduces dependence on physical documents, accelerates workflow processes, and allows real-time data access, resulting in more transparent, efficient, and reliable public services [1].

Community Organizations (Ormas) play an essential role in Indonesian society as platforms for public aspirations, social activity initiators, and government partners in development programs. To ensure that these organizations operate in accordance with applicable regulations, the National Unity and Political Agency (Kesatuan Bangsa dan Politik/Kesbangpol) is responsible for supervision, guidance, and administrative management of Ormas registration [2]. One of the important outputs of this process is the Certificate of Registration (Surat Keterangan Terdaftar/SKT), which serves as legal proof that an organization is officially recognized and permitted to operate.

Based on preliminary observations, the current manual system faces several challenges, including long processing times, susceptibility to human error, and inefficiencies in data management. Data recording is currently carried out using Microsoft Excel, where 70 organizations were recorded as of November 2024, and 60 of them require SKT renewal or new



registration. However, the data is not well-structured, making it difficult to manage, classify, and retrieve information effectively. This condition negatively impacts transparency, accountability, and the overall quality of public services [3], [4].

To address these issues, a web-based information system for Ormas registration is proposed. The system is designed to facilitate online registration and SKT renewal, reduce manual errors, and improve processing speed. By utilizing PHP as the programming language and MySQL as the database system, the application provides a structured and centralized data management system. It includes features such as an admin dashboard and online registration forms to enhance accessibility and operational efficiency.

Several previous studies support the implementation of web-based systems for Ormas management, showing that such systems can improve efficiency, data accuracy, transparency, and monitoring capabilities in government services [1], [4]. Therefore, this research aims to develop a web-based Ormas Registration Information System at the Kesbangpol Office of Pariaman City to improve administrative efficiency, data organization, and public service quality.

1.2. Literature Review

Previous studies have extensively discussed the development of web-based information systems for community organization management and public service digitalization. These studies show that the implementation of information systems can significantly improve efficiency, accuracy, and transparency in government administrative processes.

Research conducted in [3] developed a web-based monitoring information system for community organizations at the Kesbangpol Office of North Sumatra. The system enables online registration of organizations, improves data management efficiency, and supports better public service delivery. The study concludes that digital systems help reduce manual workload and improve organizational data accuracy.

Similarly, another study in [4] developed an Ormas registration information system at the Kesbangpol and Public Relations Office of Aceh Province. The system replaces manual processes with a digital platform that enhances monitoring efficiency and ensures integrated and secure data management. The results show that web-based systems significantly improve administrative performance and data reliability.

DAFTAR REKAPITULASI ORMAS  
KANTOR KESATUAN BANGSA DAN POLITIK KOTA PARIAMAN

No	NAMA LSM/ ORMAS/ YAYASAN	REKAPITULASI		ALAMAT SERIKAT/ NO SKT/ TAHUN	KETERANGAN
		SEKRETARIS	BENDAHARA		
1	1	2	3	4	5
1	YAYASAN ASDIYAH	Drs. ANSARIN AMIR Drs. ENDANGWATI Ns. (MANGWATI), S.Pd		Jl. Diponegoro No. 48 Pariaman	
2	YAYASAN MUHAMMADIYAH	KUSUMI MURNATI MAKHMUR ABU BAGAS R		Pasar Kuratiji	
3	YAYASAN FARUJ	Drs. HASAN BAKRI Drs. DALICHAIR ZAINAL		Desa Munggu	
4	YAYASAN PENDEKSIAN FEDERAL TANJUNGPIN (EDT - MANGIR)	DANFAR RSG KARRA PUTRA RISA WANGSUNING EDT		Jln. SMA, Abidin Kel. Karim Aur. Kec. Pariaman Tengah	
5	FORUM TANGGAP PAMAM	SUPARNO, M. ST YANTONI ARVEN, SH ERDAWATI		Jl. Puntas Rebin No. 26 Padang Berik. berik. SKT Nomor : 01 Tahun 2008 Tanggal 25 Januari 2008	
6	PERSATUAN WANITA KRISTEN INDONESIA (PWKI)	L. B. NARITUPULU ROMANTIKA SREGAR NELIKI SUKARTI		Parumai Rp. Baru Bisk 1 No. 1 SKT Nomor : 02 Tahun 2008 Tanggal 25 Januari 2008	
7	FRONT KOMUNITAS INDONESIA BERSATU (FKI-3)	RINTO FEBRINO, SS HARVANCE NORVAN, ST SUDARJONO		Jl. Abdi Muli No. 25 Taratak SKT Nomor : 002/TT-Ormas/VII-2009 Tanggal 8 Juli 2009	
8	YAYASAN PAMAM INTELEKTUAL MANDIRI	RUSGAM, S.Pi IHAD, STP MIRNOL, STP		Jl. Abdi Muli No. 22 Taratak SKT Nomor : 006/NP/II-2010 Tanggal 1 Februari 2010	
9	LUMBUJI	MURHYATI KAHAR M. ASH. SHODIQE DINA KEMILA		Jl. Sudirman Jati Jend I SKT Nomor : 015/NP/VI-2010 Tanggal 27 November 2010	
10	OPIC HIMPUNAN PENYELENGGARA PELATIHAN DAN KURSUS INDONESIA (HPN)	AJULI, SE DODI R. TANJUNG, ST LISI MUBANDIEN, S.Pd		Jl. Jend. Sudirman No. 24 Pariaman SKT Nomor : 008/NP/III-2010 Tanggal 3 Maret 2010	
11	FORUM FOLKLOR MASYARAKAT SUMBAR	FULUS JASAR DANALAM		Jl. Sri Manggipati No. 07 Naras I SKT Nomor : 015/NP/VI-2010 Tanggal 22 Juli 2010	
12	OPIC LASKAR ANTI KORUPSI INDONESIA	AZWAR ANAS RICKA INDIRANI, S.Kom NAMA SULASTRI, SE		Kelurahan Leluhung Pariaman SKT Nomor : 012/2010 Tanggal 26 Januari 2010	
13	KARHI	HAHMAT TL ANDRI SATRIA M, SE, ME RODIP KIRTA, SE, Akt		Jl. Zaini No. 11 Desa Paub Kuratiji Kec. Pariaman-Selatan SKT Nomor : 030/NP/IV-2011 Tanggal 6 April 2011	
14	FORUM ANAK KENAGARIAN KURATIAJ	KHARUL, KE KARTINI, S.Sos MEDYA SAFITRI		Jl. Sukarno Hatta Desa Toboh Palabab SKT Nomor : 020/NP/IV/2011 Tanggal 6 April 2011	
15	KANTAN MAHASISWA MUHAMMADIYAH KOTA PARIAMAN	AGUSRIANI DOKI ANILANG MIKI FITRI		Jl. Dr. M. Jami No. 35 Kel. Jawajawi I Kec. Pariaman Tengah SKT Nomor : 04/NP/IV-2011 Tanggal 26 April 2011	
16	MUSLIMAT NAGHLATUL ULAMA	NL, DESIRIATI SUARNIA, S.H ANINDAR		Jl. H. Agus Salim No. 27 Perummas Baru SKT Nomor : 05/NP/IV-2011 Tanggal 7 Mei 2011	
17	PAMAM SAGA BENCANA	SULTYANI MUDJINI, A.MP FIRMAN CHANAGGO SYAFEDI RAUAYADI, SE		Jl. Cut Mutiara No. 17 Desa Remang Kecamatan Pariaman Tengah SKT Nomor : 06/NP/VI/II-2011 Tanggal 9 Agustus 2011	
18	LEMBAGA METROPOL INDONESIA (LMI)	RONASRI AFRIZAL EDISON TRD.		Jl. Sri Manggipati Nenas I Kec. Pariaman Utara SKT Nomor : 07/NP/VI/III-2011 Tanggal 10 Agustus 2011	
19	IKATAN DAKI INDONESIA	Drs. MUSLIM JAKAR DJI HENDRI ENAGIR NUSYIRWAN, S.Pd.I		Jl. Syam Ratahlangi Kel. Jalan Baru Kec. Pariaman-Tengah SKT Nomor : 08/NP/VI-2011 Tanggal 6 September 2011	
20	GAZATRA KOTA PARIAMAN	HERI SULIHI SALMA HARULUR PANDI		Jl. Fatahlah No. 17 Dusun Kampong Sate Desa Paub Timur Kec. Pariaman Tengah SKT Nomor : 09/NP/VI-2011 Tanggal 17 November 2011	

Fig. 1. Recapitulation Table of Community Organizations (Ormas) – Office of the National Unity and Politics of Pariaman City

In addition, research in [1] proposed a web-based community organization monitoring system designed to replace manual data handling. The system provides a more structured, efficient, and accurate method for storing and managing large-scale organizational data, which supports better monitoring and decision-making processes.

Furthermore, studies related to database systems and web technologies highlight the importance of structured data management in information systems. MySQL as a relational database management system (RDBMS) supports efficient data storage, retrieval, and manipulation, while PHP enables the development of dynamic and interactive web applications [5]. XAMPP is also widely used as a local server environment to facilitate web application development and testing before deployment [5].

Based on the reviewed literature, it can be concluded that web-based information systems are effective in improving the management of community organization data. These systems enhance efficiency, reduce manual errors, increase transparency, and support real-time data access. Therefore, the development of a web-based Ormas Registration Information System for the Kesbangpol Office of Pariaman City is expected to provide a more efficient and structured solution for managing organizational registration and SKT processing

1.3. Research Objective

The objective of this research is to design and develop a web-based Community Organization (Ormas) Registration Information System at the Kesbangpol Office of Pariaman City in order to improve the efficiency, transparency, and accuracy of the registration and Certificate of Registration (SKT) issuance

processes. The system is implemented using PHP and MySQL to support structured, integrated, and accurate data management of community organizations. In addition, this system facilitates online registration and renewal of SKT without requiring manual submission, while also reducing human errors and increasing the effectiveness of administrative data processing through a centralized web-based information system.

## 2. MATERIALS AND METHODS

This chapter explains the materials and methods used in conducting the research on the development of a web-based Community Organization (Ormas) Registration Information System at the Kesbangpol Office of Pariaman City. The study focuses on improving the efficiency of Ormas data management and the SKT registration process.

### 2.1. Research Materials

The materials used in this research include both primary and secondary data. Primary data were obtained directly from interviews and observations with staff of the Ormas and Political Division (Orpolmas) at the Kesbangpol Office of Pariaman City, who serve as the main source of information in this study. These data provide an overview of the current manual registration process and its related problems.

Secondary data were collected from relevant literature, including journals, books, and previous studies related to information systems, database management, PHP programming, and MySQL. These references were used to support the theoretical foundation of the research.

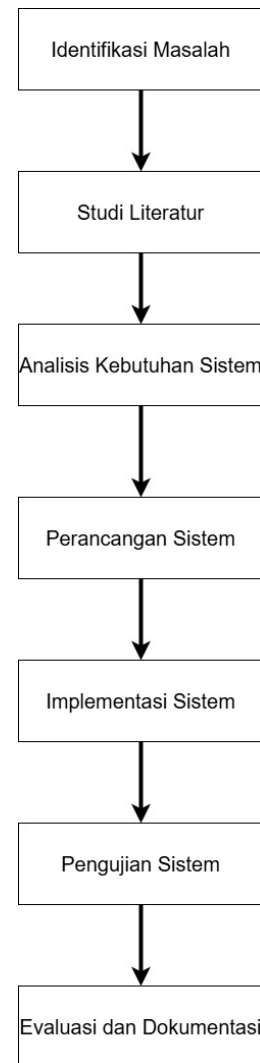


Fig. 2. Research Framework

### 2.2. Research Methods

The system development method used in this research is the Waterfall model, which consists of several sequential stages: requirement analysis, system design, implementation, testing, and maintenance. This method is chosen because it provides a structured and systematic approach to software development

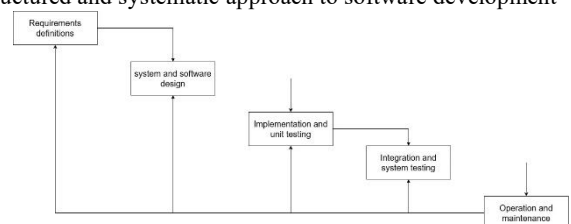


Fig. 3. Waterfall Method

### 2.3. Research Location

This research was conducted at the Kesbangpol Office of Pariaman City, located at Jl. Syech, Pauh Baru, North Pariaman District, Pariaman City, West Sumatra. The main focus of the study is the management of Ormas data and the registration process at this office

2.4. Research Object

The object of this research is the process of managing Community Organization (Ormas) data and the registration system at the Kesbangpol Office of Pariaman City. This includes data collection, verification, registration, and issuance of the Certificate of Registration (SKT).

3. RESULT AND DISCUSSION

The results of this study indicate that the web-based Community Organization (Ormas) Registration Information System developed for the Kesbangpol Office of Pariaman City has successfully improved the efficiency and effectiveness of the registration and management process of the Certificate of Registration (SKT). The system was designed using PHP and MySQL and provides integrated digital services ranging from registration, verification, document management, SKT issuance, renewal, and reporting. Through this system, organizations can complete the registration process online without having to visit the Kesbangpol office directly, thereby reducing administrative delays and minimizing the use of paper-based documents.

The system implementation consists of several integrated modules. The organizational management module allows applicants to input the organizational structure, including chairman, secretary, and treasurer data, according to the organizational hierarchy. Furthermore, the document upload module enables organizations to upload supporting documents such as articles of association, domicile letters, and management photographs. The system also supports Google Drive links to facilitate flexible document submission and storage. This feature significantly improves accessibility and reduces the risk of document loss compared to conventional filing methods.

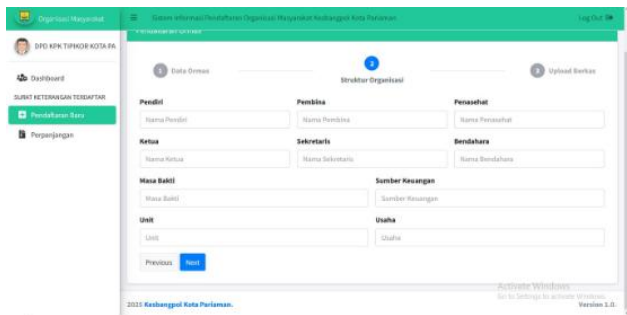


Fig. 4. Organizational Structure Input Page

The verification module was developed to support the work of verifiers in reviewing registration documents submitted by organizations. Through this module, verifiers can assess document completeness and provide registration status information such as “Checked,” “Complete,” or “Incomplete.” The availability of a verification feature accelerates the validation process and improves communication between applicants and the Kesbangpol office. In addition, the SKT input module allows administrators to upload newly issued certificates so that organizations can directly download their approved SKT documents through the system.

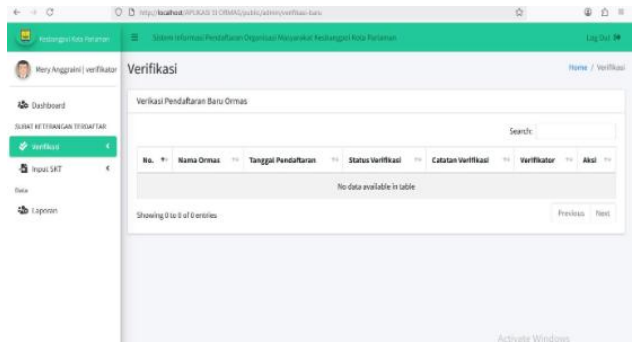


Fig. 5. New Registration Verification Input Page

The SKT renewal module also plays an important role in maintaining the continuity of organizational legality. Organizations can renew their SKT by reusing previous data or updating certain information when necessary. The renewal verification module helps verifiers review renewal applications more effectively by examining uploaded documents and determining the completeness status. These integrated processes simplify administrative procedures and reduce repetitive manual work.

In terms of reporting and monitoring, the system provides several output modules that generate organizational registration reports, SKT status reports, renewal reports, and annual recapitulation reports. These reports are displayed in both tabular and graphical formats to support easier analysis and decision-making. The reporting features help administrators monitor active organizations, expired certificates, and yearly trends in SKT issuance more efficiently. The generated reports can also be exported into PDF and Excel formats, which facilitates administrative documentation and official reporting activities.

System testing results demonstrated that the proposed system performed effectively according to the required specifications. Before implementation, the registration process was conducted manually, requiring organizations to visit the Kesbangpol office and submit numerous physical documents. Data recording relied heavily on Microsoft Excel, which increased the risk of data redundancy, input errors, and document misplacement. After implementation, all registration data and uploaded documents were stored automatically in the database, enabling faster processing and easier monitoring. Testing was conducted by several Kesbangpol officers and organizational representatives by simulating registration, document upload, verification, and reporting activities. The results showed that the system successfully managed organizational data accurately and efficiently.

The discussion of this research confirms that the implementation of a web-based information system can significantly improve public service quality within government institutions, particularly in administrative management of community organizations. The system not only reduces processing time and operational inefficiencies but also enhances transparency and accountability in registration and verification activities. Digital archiving and automated reporting features further support better data management and decision-making processes. Therefore, the developed system can be considered an effective solution for modernizing the administrative services of the Kesbangpol Office of Pariaman City.

#### 4. CONCLUSION

Based on the results of the analysis and implementation of the system, it can be concluded that the Community Organization (Ormas) Registration Information System at the Kesbangpol Office of Pariaman City has been successfully developed and is able to improve the effectiveness and efficiency of the registration and SKT issuance process. The system facilitates the management of organizational data in a more structured, accurate, and integrated manner. In addition, the online registration and document upload features help community organizations carry out the registration and renewal process more easily and quickly. However, to support the optimal performance of the system, it is recommended that the Kesbangpol Office maintain a stable internet connection and provide training for staff and socialization for Ormas users. Furthermore, the system can be enhanced by adding automatic WhatsApp or email notifications for SKT renewal reminders, as well as integrating with other regional government information systems and implementing automatic SKT printing features with QR Codes for better service quality in the future.

#### REFERENCE

- [1] R. Resgianti, "Sistem Informasi Pemantauan Keberadaan Organisasi Masyarakat Berbasis Web Pada Badan Kesatuan Bangsa Dan Politik," *J. Perencanaan, Sains, Teknol. dan Komput.*, vol. 3, no. 1, pp. 251–262, 2020.
- [2] Rifa'i Mohammad and Kurnia Fitriani Pamungky, "Penerapan Kebijakan Resentralisasi Perizinan Organisasi Kemasyarakatan Di Kota Depok Provinsi Jawa Barat," *J. Pembang. Pemberdaya. Pemerintah.*, vol. 4, pp. 13–31, 2019
- [3] W. A. Malau, Y. Yahfizham, and R. A. Putri, "Perancangan Dan Pembangunan Sistem Informasi Monitoring Ormas Pada Badan Kesbangpol Sumatera Utara," *JISTech (Journal Islam. Sci. Technol.*, vol. 7, no. 2, pp. 101–106, 2022, doi: 10.30829/jistech.v7i2.14664
- [4] M. R. Yusni, L. Ahmad, and Ismail, "Sistem Informasi Pendaftaran Organisasi Masyarakat Pada Kesbangpol Dan Humas Provinsi Aceh," *J. Indones. Manaj. Inform. dan Komun.*, vol. 3, no. 1, pp. 30–36, 2022, [Online]. Available: <https://doi.org/10.35870/jimik.v3i1.84>
- [5] M. Duggan, D. R. Roderick, and J. Sieburg, "Data bases," *Proc. 1970 25th Annu. Conf. Comput. Cris. How Comput. are Shap. our Futur. ACM 1970*, pp. 1–7, 2019, doi: 10.1145/1147282.1147284