Development Web Based Employment Information System for Yugo Putra Sejahtera Inc.

Nur Alan Setiawan
Software Engineering Technology, Agricultural Polytechnic of Samarinda, Samarinda, 75242, Indonesia
nuralan33@gmail.com

Budi Rachmadani ⓘ*
Software Engineering Technology, Agricultural Polytechnic of Samarinda, Samarinda, 75242, Indonesia
budirachmadani@gmail.com
Corresponding Author

Emil Riza Putra ⓘ
Software Engineering Technology, Agricultural Polytechnic of Samarinda, Samarinda, 75242, Indonesia
emilriza@gmail.com

Abstract— This research is based on Yugo Putra Sejahtera Inc. is a company engaged in distributors, in the processing of letters in the personnel section it is still done manually starting from the manufacturing stage to the stage of sending and receiving the letter. The purpose of this research is to create a personnel information system at pt. Yugo Putra Prosperity is web-based using the Laravel Framework programming language and MySQL as the database. The results of this study indicate that the trials produced on the respondent's test indicate that the application used can present mail data information and optimize the online correspondence process properly.

Keywords— Letter, Laravel, Information System, Staffing, Online.

I. INTRODUCTION

An information system is an organized way to collect, enter, process data and store it, manage, control and report it so that it can support a company or organization to achieve its goals. A good information system must have clear, concise, and easy-to-understand systematics. One of the information used mainly in companies or organizations is the personnel information system (Sari et al., 2019)

The personnel information system can improve the quality of human resources by providing accurate and efficient information, so that decisions can be made objectively. Strategically the development of the personnel information system is one system that is engaged in the field of personnel and is able to grow knowledge, maintain, enrich and provide knowledge in the field of personnel to those who need it as a basis for making accurate decisions at the right time. The personnel management information system that is organized quickly, precisely and accurately is intended to facilitate personnel administration activities in a company or organization (Informasi et al., 2019).

At Yugo Putra Sejahtera Inc. has not implemented a personnel information system that includes online correspondence processing, this company engaged in

Aqua, Heinz ABC, and Nestle Distributors was founded in 1970 with the initial name of the store "Sumber Sari" and continues to grow to this day. Yugo Putra Sejahtera Inc. which is located on Jl. Ir. Sutami Block A No. 1-3 Samarinda 75126. In processing correspondence which includes promotions, transfer letters and permits in the staffing division, it is still done manually using Microsoft Excel and Microsoft Word applications starting from the creation stage to the stage of sending and receiving letters.

The system has an impact on the ineffectiveness and efficiency of the existing system, for example in errors in inputting larger employee data and updating data which takes quite a long time, and employees who want work permits must also go to the office, while sometimes there are employees who cannot come to the office, because there is an important matter.

II. LITERATURE REVIEW

A. Literature Review

Some of the literature used as a guide and reference in this study include:

Research conducted by Wahyu Wijaya Widiyanto from AMIKOM University Yogyakarta entitled "Analysis of System Development Methodology with Comparison of Software Models of Personnel Information Systems Using Waterfall Development Model, Prototype Models, and Rapid Application Development (Rad) Models". This research discusses the analysis of the development methodology using three methods, namely waterfall, Rapid Application Development (RAD), and Prototype, the results of the purpose of this analysis are so that developers can implement system development by selecting the right methodology (Widiyanto, 2018).

The research was conducted by Wilda Azhima Nuraika Putri entitled "Re-engineering of Personnel Management Information System Using Laravel Framework at BPPKI Surabaya". The purpose of this study is to reengineer a personnel system that was originally offline to be online, because the administrative

section still has difficulty in storing and processing employee data because it can only be accessed offline, the results of this study have six important parts, namely the information system for the increase transaction process periodic salary, salary, promotion, leave application, transfer application and pension application (Wilda Azhima Nuraika Putri, 2016).

The research was conducted by Sandhy Fernandez from the University of Muhammadiyah Bengkulu entitled "Revitalization of Information Technology in the Personnel Information System of the University of Muhammadiyah Bengkulu Using COBIT 4.1". The results of the research objectives use the COBIT (Control Objective for Information and Related Technology) measurement method to determine the level of importance and development of the personnel information system at the University of Muhammadiyah Bengkulu whether it is better in the staffing service process (Fernandez, 2019).

The research was conducted by Hery Sufadmi from STIKOM Dinamika Bangsa entitled "Analysis and Design of a Web-Based Personnel Information System at the Jambi City General Election Commission Office". The problem of file loss, data duplication, and irregular data often occurs, the purpose of this research is to analyze the problems that occur and design a web-based personnel information system using the Unified Modeling Language (UML) method. The results are expected to be solving problems related to staffing (Sufadmi et al., 2020).

The research was conducted by Lareno Nurfadillah from Brawijaya University with the title "Analysis and Design of Personnel Information System PT. Indometal Mitrabuana". This personnel information system application was created using the Ripple method which focuses on managing employee reports so that it can maximize human resource development activities optimally (Nurfadillah et al., 2019).

A. System

System is a collection or group of sub-systems or components that are interconnected with each other and work together in harmony to achieve a certain goal (Tandiembong & Tofir, 2020).

A system is a set of dependent elements forming a single entity. A particular type of system is an economic one that defines its economic components and mechanisms such as a company, an industry, an area of the national economy and so on. Even national and worldwide economies can be seen at the global economic level as a complex economic system (Waluya & Dimas, 2017).

B. Information

Information is data that is processed into a form that is useful and meaningful to the recipient (Janu Ilham Sputro, 1396).

Susanto (2007) suggests that information is the result of data processing, which provides meaning and benefits (Waluya & Dimas, 2017).

C. Information System

Systems within an organization that meet transaction processing needs, support operations, are managerial, and strategic activities of an organization and provide certain outside parties with the necessary reports (Rozanda & Masriana, 2017).

The information processing function often requires data that has been collected and processed in a previous time period, therefore data file storage is added to the information system model, and processing activities are well available to new and previously collected and stored data. (Rozanda & Masriana, 2017).

G. Employment

Staffing is a job that regulates the function and position of an employee in an agency, organization or agency (Informasi et al., 2019).

Staffing is human labor that is always needed, therefore it is one of the main capitals of a working business and to achieve certain goals (Heryanto, 2017).

H. Employment Information System

Based on the Decree of the Minister of Home Affairs No. 17 of 2000 concerning the personnel management information system of the Ministry of Home Affairs and local governments states that the personnel management information system is an integrated totality consisting of software, storage devices including data centers and data banks as well as communication devices that are interrelated, dependent, and mutually determined in order to provide information in the field of personnel (Dharmawan et al., 2019). The Personnel Section is a service department that helps employees and organizational leaders (Wilda Azhima Nuraika Putri, 2016).

I. Website

Website is a collection of personal HTML documents or companies that create an information system in a web server (a computer system in an organization, which functions as a server, a computer that functions to store information and to manage computer networks) the World Wide Web or web facilities. , and can be accessed by all internet users (Sari et al., 2019).
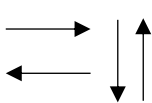
The World Wide Web is an information space used by global identifiers called uniform resource identifiers to identify useful resources. WWW is often considered the same as the internet as a whole, even though it is actually only a part of the internet (Handayani, 2018).

J. Flowchart

Flowchart is a diagram that uses symbols and lines to describe the sequence of processes of an algorithm (Heryanto, 2017).

Flowchart is a description of the logical flow of data to be processed in a program from start to finish. Program flowchart is a useful tool for programmers to prepare complex programs, the flow chart has symbols that function as program steps and the flow line shows the sequence of symbols to be worked on (Heryanto, 2017).
The meaning of flowchart symbols can be seen in table 1.

Table 1. Flowchart symbols

Symbol	Symbol Name	Information
	Input / Output	used to represent data Input / Output
	Process	used to represent a process
	Flow Line	used to show the flow of the process
	connector	It is used to indicate the connection of a flowchart that is broken on the same page or on another page.
	Decision	used for a selection of conditions in the program
	Defined Process	used to denote an operation whose details are shown elsewhere
	Preparation	Used to give the initial value of a quantity.
	Terminal Point	Used to indicate the start and end of a process.

III. RESEARCH METHOD

A. Research Procedure

Procedure was carried out in several stages, as shown in the flow chart. The flow chart can be seen in picture 1.
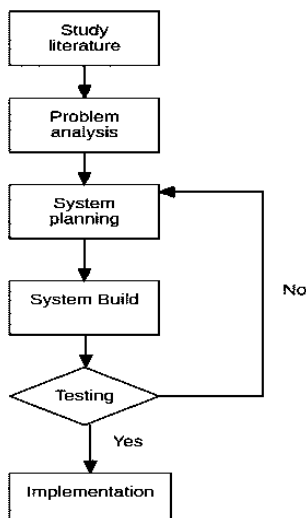
Picture 1. Research Procedure Flowchart

B. System Design

In the process of designing this system there are several stages, namely.
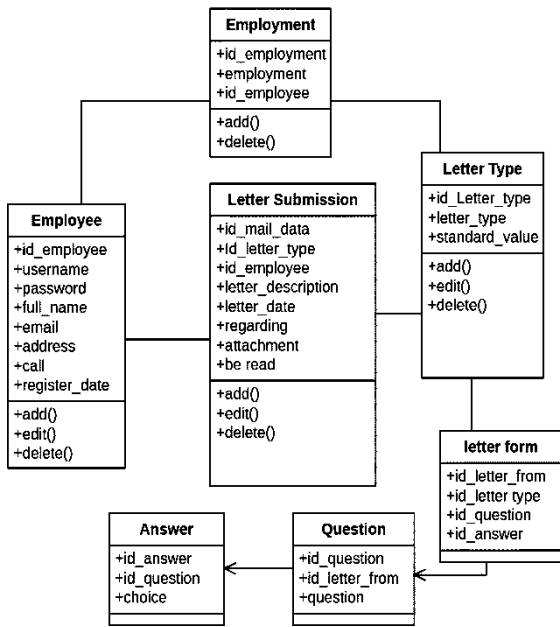
1) *Use Case Diagram*

Use case diagrams are used to understand what functions are in a system and who can use these functions (Santoso et al., n.d.). The Employment Use Case Diagram can be seen in picture 2.
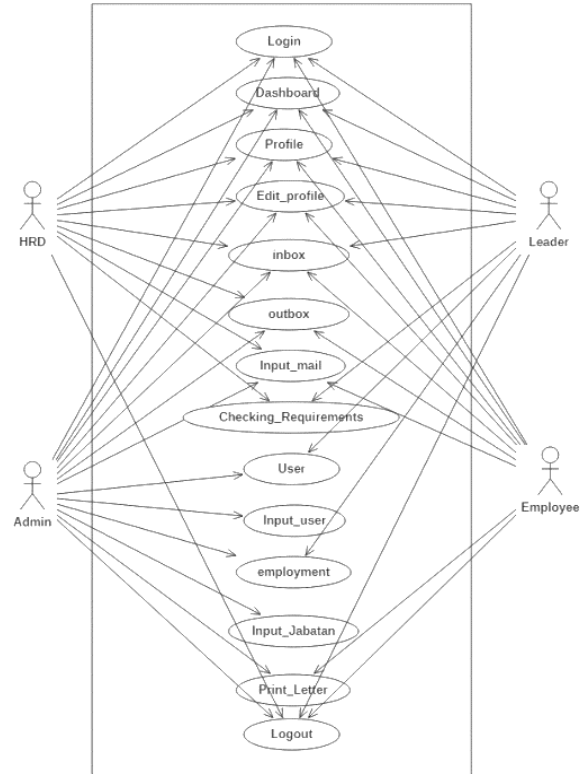
Picture 2. Employment Use Case Diagram

2) Class Diagram

Class diagram is the relationship between classes and a detailed explanation of each class in the design model of a system, also shows the rules and responsibilities of entities that determine system behavior (Sari et al., 2019). The staffing class diagram can be seen in Picture 3.
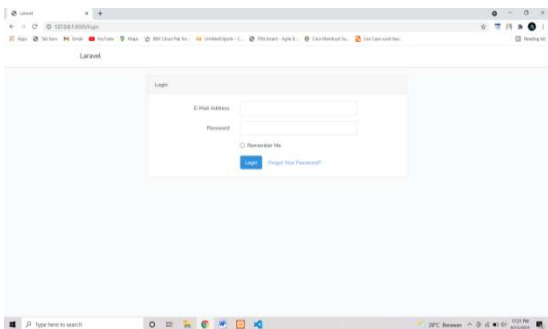
Picture 3. Employment Use Case Diagram

IV. RESULT AND DISCUSSION

The results of the development of the Employment Information System Yugo Putra Sejahtera Inc. Web-Based:

1) Admin Login

Page The login page has several input forms, where the admin must fill in the username and password first before Starting the application can be seen in Picture 4.

Picture 4. Admin Login Page

2) Admin Dashboard

Page The dashboard page is the main display for admins when they have successfully logged in and there are 6 menus for admins, namely dashboard, employees, HRD, leadership, and letter submission, which can be seen in Picture 5.
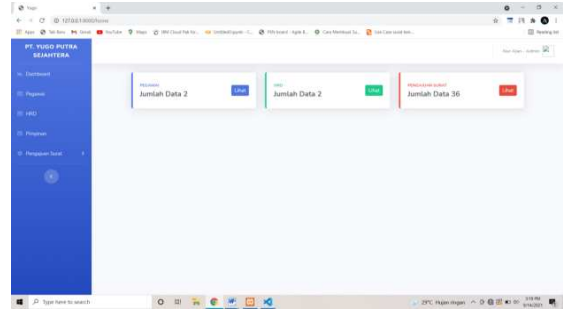
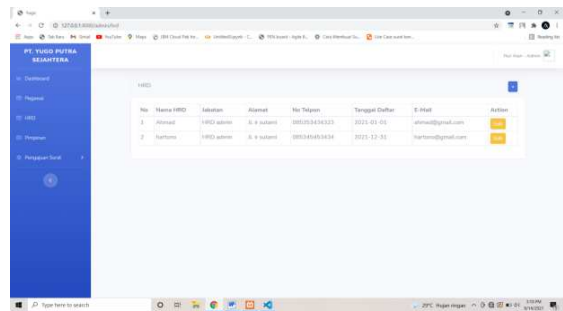Picture 5. Admin Dashboard Page

3) Admin Employee Page

Page the employee is a display to view employee data, add employees, and edit employees can be seen in Picture 6.
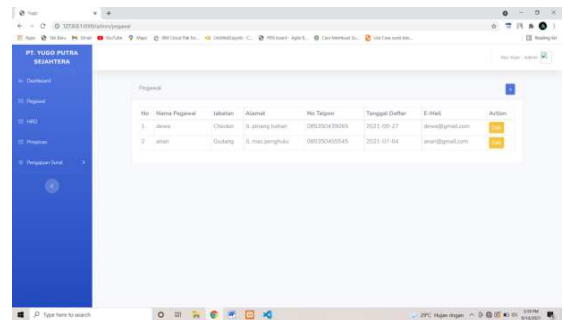
Picture 6. Admin Employee Page
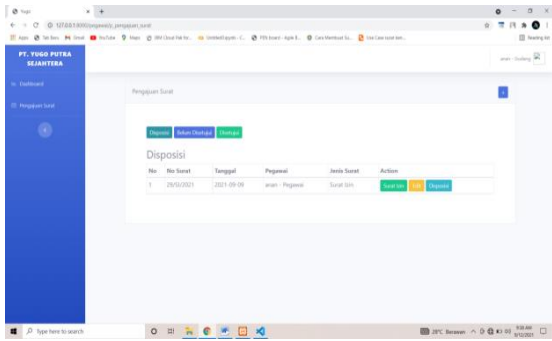
4) HRD Admin Page

Page The HRD admin page is a display to view HR data, and edit HRD can be seen in Picture 7.

Picture 7. HRD Admin Page

5) Employee Permit Application Page

The page application display permits data and there is a menu for adding letters, dispositions, not yet approved, and approved can be seen in Picture 8.

Picture 8. Employee Permit Application Page
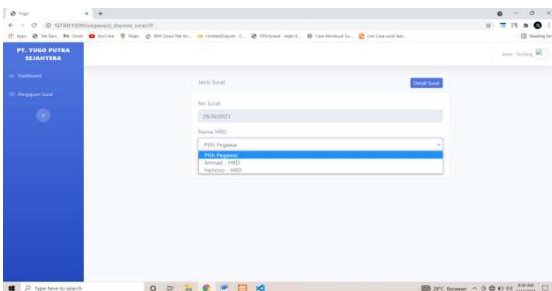
6) Add Employee Permit Page

The page displays several input forms that can be filled in to fill in the letter information and choose files if needed can be seen in Picture 9.
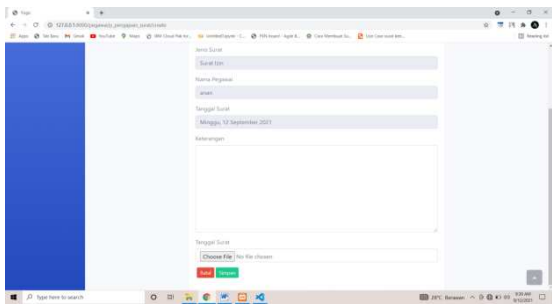
Picture 9. Add Employee Permit page

7) Page Employee Letter Disposition

Page the employee letter disposition page displays from which can be selected to dispose of the letter can be seen in Picture 10.

Picture 10. Page Employee Letter Disposition

8) HRD Permit page

The HRD Permit page is a display to view incoming letters and the need for verification from HRD to refuse or accept a permit can be seen in Picture 11.
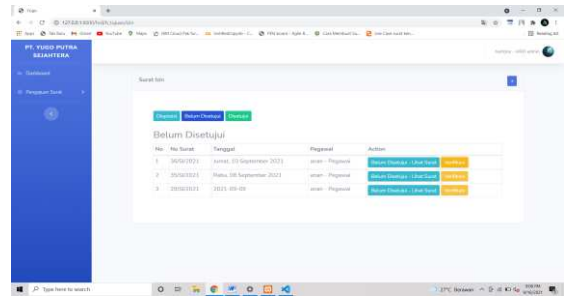
Picture 11. HRD Permit page

9) Verify the page License HRD

HRD license verification page is agreement display incoming license to be accepted or rejected can be seen in Picture 12.
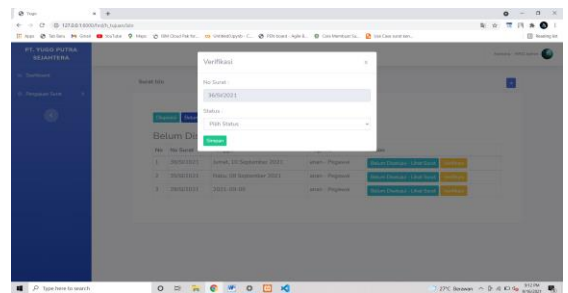
Picture 12. Verify the page License HRD

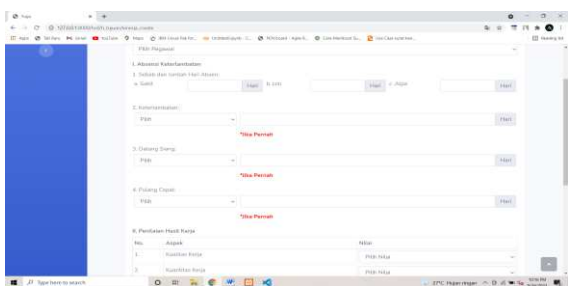10) Page of HRD Employee Performance Letter

The page of HRD employee performance letter is a display of letter data, adding letters, calculating letters, distributing letters, and seeing letters received or rejected can be seen in Picture 13.
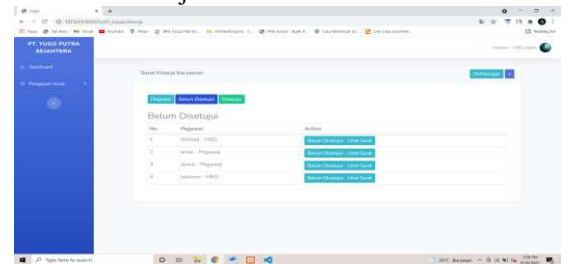
Picture 13. Employee Performance Letter page

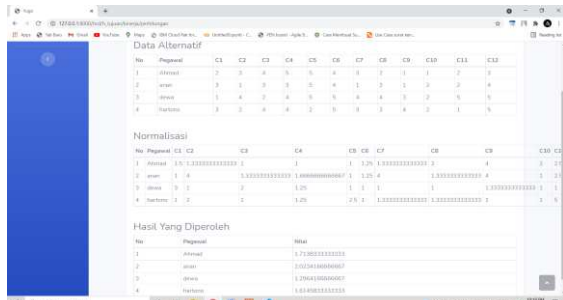11) Add HRD Employee Performance Letter

Page Add HRD employee performance letter page is a display from input that can be filled in or choose the existing performance value can be seen in Picture 14.

Picture 14. Page Add HRD Employee Performance Letter

12) HRD Employee Performance Calculation

Page The HRD employee performance calculation page displays the name of the employee and the employee performance value can be seen in Picture 15.
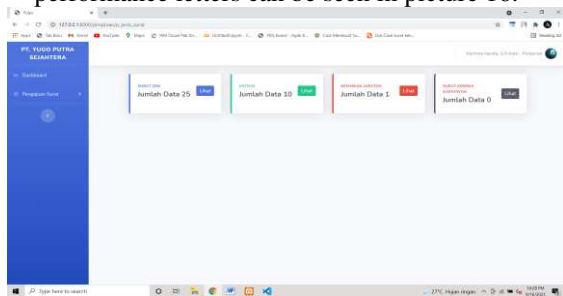

Picture 15. HRD Employee Performance Calculation Page.

13) Leadership Letter Submission Page

The leadership letter submission page is a display to view data on letters, mutation letters, permits, promotion letters, and employee performance letters can be seen in picture 16.
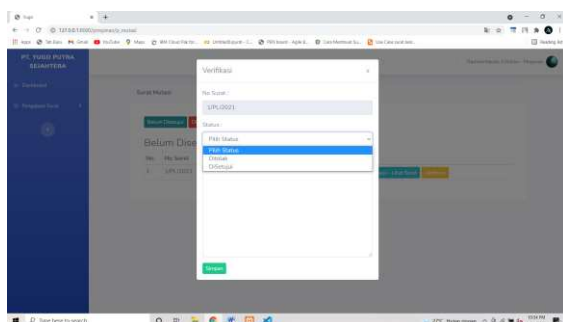

Picture 16. Leadership Letter Submission Page

14) Transfer Letter Verification Page The leadership

The leadership mutation letter verification page is a display to accept or reject the letter, which can be seen in Picture 17.

Picture 17. Transfer Letter Verification Page The leadership.

V. CONCLUSION

Based on the results and discussions that have been described previously as well as the results and analysis of the design and development of the Personnel Information System at Yugo Putra Sejahtera Inc. Web-based can be concluded as follows. This information system helps the employees of Yugo Putra Sejahtera Inc. to optimize the correspondence process and provide information on letter data to the administration from the correspondence process carried out by employees to conduct mail checks, and can be accessed online..

REFERENCES

Dharmawan, I. W., Raka, A. A. G., & Mardika, I. M. (2019). Implementasi Program Sistem Informasi Manajemen Kepegawaian (SIMPEG) berbasis web di Badan Kepegawaian dan Pengembangan Sumber Daya Manusia (BKPSDM) Kabupaten Badung. *Public Inspiration: Jurnal Administrasi Publik*, *4*(1), 31,38.https://www.ejournal.warmadewa.ac.id/index.php/public-inspiration/article/view/1232.

Fernandez, S. (2019). *Revitalisasi Teknologi Informasi pada Sistem Informasi Kepegawaian Universitas Muhammadiyah Bengkulu*. *15*(2).

Handayani, S. (2018). Perancangan Sistem Informasi Penjualan Berbasis E-Commerce Studi Kasus Toko Kun Jakarta. *ILKOM Jurnal Ilmiah*, *10*(2), 182–189. https://doi.org/10.33096/ilkom.v10i2.310.182-189

Heryanto, B. (2017). *Sisten Informasi Kepegawaian Berbasis Web Di Minimarket KJI*.

Informasi, J. S., Hanafiah, H., Pirmansyah, A., Informasi, D. S., & Informasi, M. S. (2019). *Pembangunan sistem informasi kepegawaian berbasis web di kantor desa manggungharja*. *01*, 47–52.

Janu Ilham Sputro. (1396). Sistem Informasi Surat Pengantar Berbasis Web (Studi Kasus: Kelurahan Sukasari Tanggerang). *Sistem Informasi Surat Pengantar Berbasis Web (Studi Kasus: Kelurahan Sukasari Tanggerang)*.

Nurfadillah, L., Pramono, D., & Purnomo, W. (2019). *Analisis dan Perancangan Sistem Informasi Kepegawaian PT . Indometal*. *3*(8).

Rozanda, N. E., & Masriana, A. (2017). Perbandingan Metode Hot Fit dan Tam dalam Mengevaluasi Penerapan Sistem Informasi Manajemen Kepegawaian (SIMPEG) (Studi Kasus : Pengadilan Tata Usaha Negara Pekanbaru). *Seminar Nasional Teknologi Informasi, Komunikasi Dan Industri (SNTIKI) 9, ISSN (Prin*, 18–19.

Santoso, J. M., Iskandar, A. R., Teknik, A., Sandhy, T., Jakarta, P., & Studio, A. (n.d.). *Absensi Pada Study Center Di Wilayah Cengkareng Barat Berbasis Android*.

Sari, A., Purnama, B., Kom, M., & Effiyaldi, D. (2019). *Perancangan Sistem Informasi Kepegawian Pada Dinas Energi Dan Sumber Daya Mineral Jambi*. *1*(4), 249–264.

Sufadmi, H., Informasi, M. S., & Bangsa, S. D. (2020). *Analisis Dan Perancangan Sistem Informasi Kepegawaian Berbasis Web Pada Kantor Komisi Pemilihan Umum Kota Jambi*. *5*(3), 340–353.

Tandiembong, Y. M., & Tofir, S. (2020). Sistem Informasi Kepegawaian Berbasis Web Pada Yayasan Pendidikan Dan Persekolahan Katolik

Keuskupan Manokwari Sorong (Yppk Kms). *Jurnal Ilmiah Sistem Informasi Dan Teknik Informatika "JISTI," 3*(2), 38–47.

Waluya, D., & Dimas, F. (2017). Perancangan Sistem Informasi Akuntansi Koperasi Dan Umkm Berbasis Technopreneur. *Jurnal Riset Akuntansi Dan Keuangan*, *5*(2), 1423–1440. https://doi.org/10.17509/jrak.v5i2.8124

Widiyanto, W. W. (2018). *Analisa Metodologi Pengembangan Sistem Dengan Perbandingan Model Perangkat Lunak Sistem Informasi Kepegawaian Menggunakan Waterfall Development Model, Model Prototype, Dan Model Rapid Aplication Development (RAD). 4.*

Wilda Azhima Nuraika Putri, I. M. S. (2016). Rekayasa Ulang Sistem Informasi Manajemen Kepegawaian Menggunakan Framework Laravel Pada BPPKI Surabaya. *Jurnal Manajemen Informatika*, *6*(1), 82–90.https://jurnalmahasiswa.unesa.ac.id/index.php/jurnal-manajemen-informatika/article/view/17939/16347