Functional Information System using Office Laravel Framework in BKPSDM Pekanbaru City

Eka Sabna, Machdalena, Des Suryani, Ambiyar, Fahmi Rizal

Abstract: Functional Position Information System is an information system application that is indispensable in Pekanbaru City Personnel and Human Resources Development Agency. This information system has not been implemented so that it needs to be designed and developed to determine its success and effectiveness. This becomes something very interesting to be the object of research, using quantitative research methods and using primary and secondary data as samples. Primary data were taken from field surveys, namely carrying out observations, interviews, case studies of selected samples. Secondary data were taken from available data by carrying out a documentation study at the Pekanbaru City Personnel and Human Resources Development Agency as needed. The data obtained were then analyzed descriptively with the waterfall modeling method. The results of hypothesis testing indicate that the functional position information system has not yet been implemented as an effort to facilitate civil servants to obtain services and information related to functional positions. Hypothesis testing also shows that there is no difference in the acceptance of the information system based on the diversity of functional groups and the length of their service life. For this reason, every civil servant who holds a Functional Position is obliged to take care of a Decree application at the Human Resources Development Personnel Agency Office, abbreviated as BKPSDM Pekanbaru City and to facilitate this, is designed a system called the Functional Position Information System Using the framework Laravel so that the user can easily easy to understand and use the application in the form of a website.

Keywords: BKPSDM, Information Systems, Laravel, Web.

I. INTRODUCTION

Information systems have an important role in an institution, both in education, trade, agriculture and other agencies [1]. The information system processing method determines the results of the processed information data.

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Conventional data processing takes a long time, the results are less accurate, so the results of data processing are inefficient. [2] explains Data and information is one of the important things in life, especially in fulfilling the requirements for making a matter, such as a request for aIssuance decree or commonly abbreviated as a decree in an agency for that the author takes the title of research to build an information system that can be used for perform services for issuing decree in a functional position [3].

State civil service functional positions are a group of positions held by civil servants to carry out certain functions in the Indonesian government [4]. Functional positions in statutory regulations, namely a group of positions containing functions and tasks related to functional services based on certain expertise and skills. As regulated in Pekanbaru City Regional Regulation No. 6/2016 concerning the formation and composition of regional apparatus for Pekanbaru City which was then followed up by Pekanbaru Mayor Regulation No. 168/2018 concerning Position, Organizational Structure, Duties, and Functions as well as Work Procedures for City Personnel and Human Resources Development Pekanbaru, the Personnel and Human Resources Development Agency (BKPSDM) of Pekanbaru City has a position as the organizer of supporting affairs in the field of personnel, education, and training [5].

Among the duties and functions of BKPSDM Pekanbaru City as mandated in the regulation is the issuer of a Functional Position Decree. Each functional position held within the Pekanbaru City Government is required to have a document in the form of a Decree issued by the Personnel Development Agency, in this case, the Office of the Personnel and Human Resources Development Agency [6]. The number of active civil servants is 7,470 people (data www.simpeg.Pekanbaru.go.id as of 05 August 2020), with employees holding ± 350 functional positions, the Pekanbaru City Government still uses a system that can be said to be very manual [7]. In addition to the inefficient and ineffective process of this problem, many obstacles and problems arise as a result of the old process namely, the applicant must come independently to bring the file to the BKPSDM Office of Pekanbaru City with a considerable distance then enter the file that is brought to the department [8].

BKPSDM services and the files are disposition to the career development and promotion sub bid after the files are received by staff in that sub-sector, file verification will be carried out, if there are files that are rejected or need to be repaired, the file management staff will contact the proposing employee after all the files are approved. input into Ms. Office, the proposer is waiting for further information from the management staff [9].

The current pandemic condition that has hit Indonesia, especially in Pekanbaru City, has also been affected, one of the problems that arise as a result of the impact of this pandemic is the obstruction of government services where currently we are directed not to do activities outside the home so this is a new problem that is may hinder the service process of issuing functional decrees.

Judging from this problem, it is necessary to implement a system that can be used to facilitate proposers and officers to carry out the process of issuing this functional position decree so that the author takes the title of his research, namely "Information Systems Functional Position Using Laravel Framework at BKPSDM Pekanbaru City".

II. RESULTS AND DISCUSSION

Logic and programming algorithms are something different but cannot be separated when used to build a product using a programming language [10]. Logic can be used to solve programming problems at hand, while the algorithm will solve these problems in a coherent manner. This study aims to design a Functional Position Information System in BKPSDM Pekanbaru City and ensure the quality of the system developed by being tested based on aspects of functional suitability, usability, and performance efficiency. Following are the results of the application discussion from

the results of the tests that have been carried out.

A. Login Menu

Fig. 1. Display form login

In this view there is a main page as the initial display when starting to access the website page, it will appear in browsing the Java login page view, to initiate access, the main step is to login. We have to do inputting the username and password according to the login database on the Pekanbaru City Simpeg website, when the login is unsuccessful a notification will appear.

B. Dashboard
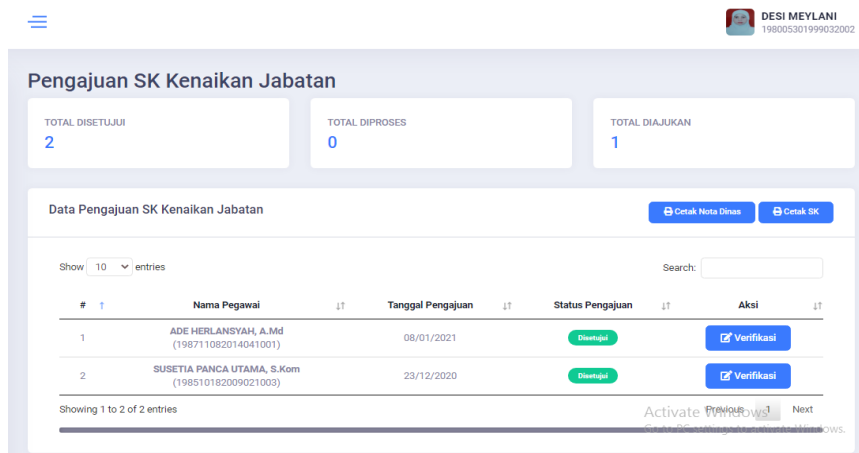
Fig. 2.Display dashbord

On the dashboard page display, there are several main menus such as the total number of submissions based on the file status on the dashboard page, there is also the SK submission data modal used by the OPD admin to verify the
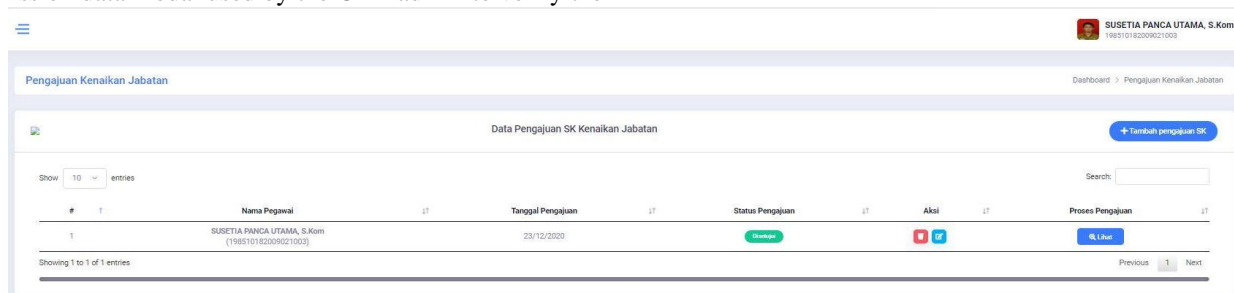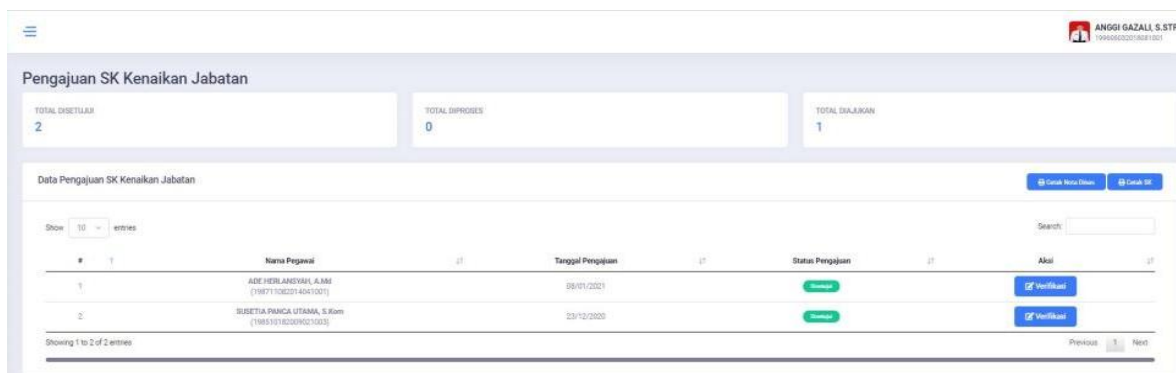
incoming data files.

C. Dashboard level data

Fig. 3.Employee level dashboard

On the Dashboard display, employee level can only submit and edit submission data and delete proposals that have been submitted and download SK excerpts that have been submitted.
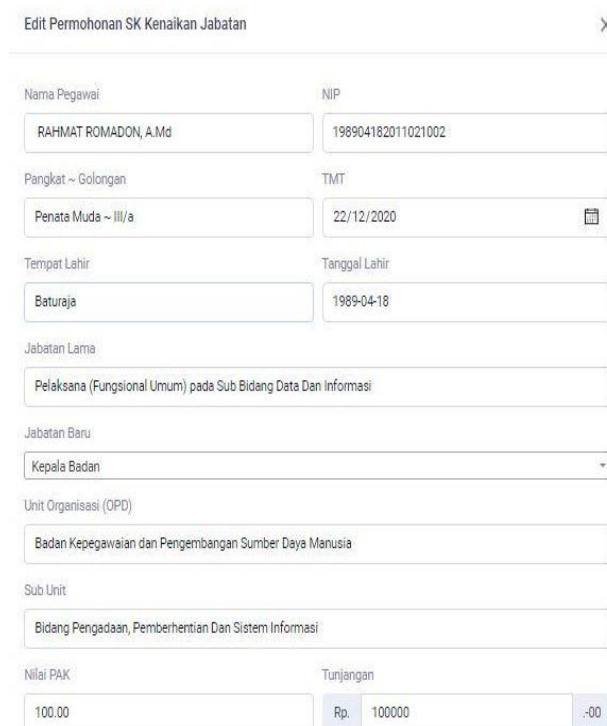

Fig. 4. OPD admin level dashboard display

On the, the OPD admin is tasked as a verifier and also as a manager for proposed files to be submitted to the Mayor of Pekanbaru, in the OPD admin system printing service notes, Draft Mayor decrees and attachments as well as uploading the excerpt of the SK that was signed by the Head of BKPSDM Pekanbaru City.

Describes the super admin level dashboard display where the super admin tasks can perform all tasks performed by the OPD admin except that the super admin has additional tasks, namely managing user data, managing file requirements, and generate reports on each type of request based on the requested timeframe.

D. Page add submission

File upload page in this view employees who will submit file proposals must upload documents in PDF file with a maximum file size of 2 mb after all the requirements have been uploaded, the employee clicks the submit button.

Fig. 5. Display edit data

After logging in as an employee and entering the submission menu a button will appear add data which displays the form as shown above, here the employee who will apply must first fill in this data edit form in accordance with the requirements and documents that have been prepared, besides that the OPD admin and super admin can add, edit, and delete employee submission data that do not match the uploaded documents.

Fig. 6. Display of file verification

In the verification form, this file will appear on the screen by the OPD admin where the function of this form is to display document files from employees who will be verified by viewing the data first clicking the view button and giving the action of agreeing or rejecting each files at the click of button next action after all the files have been verified eat admin OPD will save the verification results into the database by clicking the button Save verification

Fig. 7. Print view the memorandum department

Display print the memorandum department obtainable from the login admin OPD which after the admin verifies the approved files, the service Note can be printed as a cover letter in the names of employee proposals to be submitted to the head of the agency by attaching the documents of each proposer.

Fig. 8. Display of the draft mayor's decree

On the display of the draft SK is the SK draft submitted to the Mayor of Pekanbaru City after the service note has been signed by the Head of the Agency where the display of the Mayor's decree draft is obtained from the print SK button on the file verification form.

III. CONCLUSION

The conclusion from the results of research at the Pekanbaru City Personnel and Human Resources Development Agency on the Functional Position Information System that I built is as follows 1) Information system for functional positions in the personnel and Human Resources Development Agency of Pekanbaru City has been running and functions as needed to provide convenience for employees who will propose a functional position decree without having to meet face to face and deliver documents to BKPSDM Pekanbaru City; 2) With the functional position information system, it can make it easy for verifiers or file managers to verify files and communicate online; and 3) The system information that has been built is able to display data and information properly and makes it easy for the Head of sub-division for career development and promotion to monitor, evaluate and create reports without having to take data from staff.

REFERENCES

1. R. Blake, and G. Shankaranarayanan. Data and information quality: Research themes and evolving patterns. 2015
2. R. Melyanti, M. Iqbal. Sistem Informasi Manajemen Penelitian Dan Pengabdian Masyarakat Di Bagian P3m (Studi Kasus: Stmik Hang Tuah Pekanbaru). *Jurnal Ilmu Komputer*, *9*(2), 2020, pp. 165-176.
3. R. Melyanti R, Y. Andreas. Sistem E-wisata pada Dinas Pariwisata di Kota Pekanbaru Berbasis Android. *Jurnal Ilmu Komputer*, 6(2), 2017, pp. 124-127.
4. A. Rakhmawanto, A. Seleksi Pengangkatan Pegawai Negeri Sipil Dalam Jabatan Struktural. *Civil Service Journal*, 2007, *1*(2), 13-13.
5. R. Pulungan. Pelaksanaan Pengujian Berkala Angkutan Umum oleh Dinas Perhubungan Berdasarkan Peraturan Daerah Kota Pekanbaru Nomor 10 Tahun 2017 Tentang Penyelenggaraan Lalu Lintas dan Angkutan Jalan (Doctoral Dissertation, Universitas Islam Negeri Sultan Syarif Kasim Riau). 2020.
6. H. Ismainar, R. Melyanti, S. Daulay, Y. Irawan, and R. Ordila. Management Information System for Lancang Kuning Hospital Dompet Dhuafa Pekanbaru Using Codeigniter Framework. In Journal of Physics: Conference Series, 2021, 1845(1) p. 012031.

7. Herianto, A. Febriani, R. Melyanti. Sistem Informasi Manajemen Skripsi Mahasiswa Stmik Hang Tuah. Prosiding Seminar Nasional Teknopreneur Universitas Pasir Pengaraian. 1(1), 2018, pp. 253-300.
8. R. Melyanti, D. Irfan, Ambiyar, A. Febriani, R. Khairana. Rancang Bangun Sistem Antrian Online Kunjungan Pasien Rawat Jalan Pada Rumah Sakit Syafira Berbasis Web. INTECOMS: Journal of Information Technology and Computer Science, 3(2), 2020, pp. 192-198.
9. R. Melyanti, D. Irfan, Ambiyar, A. Febriani, R. Khairana, R. Rancang Bangun Sistem Antrian Online Kunjungan Pasien Rawat Jalan Pada Rumah Sakit Syafira Berbasis Web. INTECOMS: Journal of Information Technology and Computer Science, 3(2), 2020, pp. 192-198.
10. R. Melyantri, Herianto. Aplikasi penilaian kinerja dosen dalam Pelaksanaan tri dharma perguruan tinggi. Aplikasi Penilaian Kinerja Dosen Dalam Pelaksanaan Tri Dharma Perguruan Tinggi (Studi Kasus : STMIK Hang Tuah Pekanbaru). 8(10, 2019, pp. 99-106

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