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Functional position information system using the laravel framework on BKPSDM pekanbaru city

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Article Info

Abstract
The Functional Position Information System is an information system application that is indispensable at the 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 using purposive sampling method. 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 make it easier for 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, abbreviated as BKPSDM Pekanbaru City and to facilitate this.

Introduction
(Capital letters, Times New Roman 12, Bold, Justify, 1 Column)
Information systems have an important role in an agency, both in education, trade, agriculture and other agencies. The way of processing information systems determines the results of the processed information data. Conventional data processing takes a long time, the results are less accurate so that the results of data processing are not efficient. Data and information is one of the important things in life, especially in fulfilling the requirements for making a thing, such as a request for submitting a Decree Issuance or commonly abbreviated as SK at an agency, for that the author takes the title of research to build an information system that can be used to perform services for issuing Decrees in Functional Positions.
Functional Positions of State Civil Apparatus are a group of positions occupied by Civil Servants to carry out certain functions in the Indonesian government. Functional positions in laws and regulations are a group of positions containing functions and duties related to functional services based on certain skills and expertise. As regulated in the Pekanbaru City Regional Regulation Number 6 of 2016 concerning the Establishment and Composition of the Pekanbaru City Regional Apparatus which was then followed up by the Pekanbaru Mayor Regulation Number 168 of 2018 concerning the Position, Organizational Structure, Duties and Functions and Work Procedures of the City Civil Service and Human Resources Development Agency.

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. Among the duties and functions of the Pekanbaru City BKPSDM as mandated in the regulation is the issuer of the Functional Position Decree. Every functional position holder within the Pekanbaru City Government is required to have a document in the form of a Decree issued by the staffing agency, in this case the Office of the Personnel and Human Resources Development Agency. The number of active civil servants is 7,470 people (data www.simpeg.pekanbaru.go.id as of August 5, 2020), with employees holding functional positions as many as ± 350 civil servants, the Pekanbaru City Government still uses a system that can be said to be very manual. In addition to the inefficient and ineffective process of this problem, there are many obstacles and problems that arise due to the process that is still in the old way, namely, the proposer must come independently to bring the file to the Pekanbaru City BKPSDM Office with a considerable distance, then enter the file brought to the Pekanbaru City BKPSDM office. the BKPSDM service and the file are disposed of to the career development and promotion sub-division after the file is received by the staff in the sub-sector, file verification will be carried out, if there are files that are rejected or need to be corrected, the file management staff will contact the next proposing employee after all the files have been approved. inputting into Ms. Office, the proposer is waiting for further information from the managing staff.

In general, the system is a tool or way of working that is used to facilitate the work done by humans. In a system there are several elements that are interrelated and work together to achieve goals. This is in line with Ladjamudin (2013:13) which states that the system is a set of organizational procedures which when implemented will provide information for decision makers and/or to control the organization (Aditya et al., 2010) [2].

The aim of this research is to design an information system called the Functional Position Information System at BKPSDM Pekanbaru City.

The benefits of this research are
a. To assist and facilitate the User in submitting the issuance of the Decree of the Functional Position.
b. produce more relevant information with high precision and low recall.

Theoritical Review
(Capital letters, Times New Roman 12, Bold, Justify, 1 Column)
Data collection is also done by studying books that support this research, including literature on writing and on matters that support the creation of application programs.

a. Functional Position Information System at BKPSDM Pekanbaru City using the Laravel framework
Laravel is an open source PHP 5.3 framework written by Taylor Otwell under the MIT License. Laravel is made to help developers, especially in creating a web with a simple, elegant, expressive and fun syntax. As written on their website. Laravel is a clean and classy framework for PHP web implementation. Making it easy for the source code to look beautiful, it helps in building good applications, using a simple and expressive syntax. application should be a

creative experience you enjoy, not something painful. Laravel is a web application with an expressive and elegant syntax. With Laravel, common developer tasks can be reduced in most web projects such as routing, sessions and caching.

Flow chart
Below is a flowchart from SIJAFUNG BKPSDM:

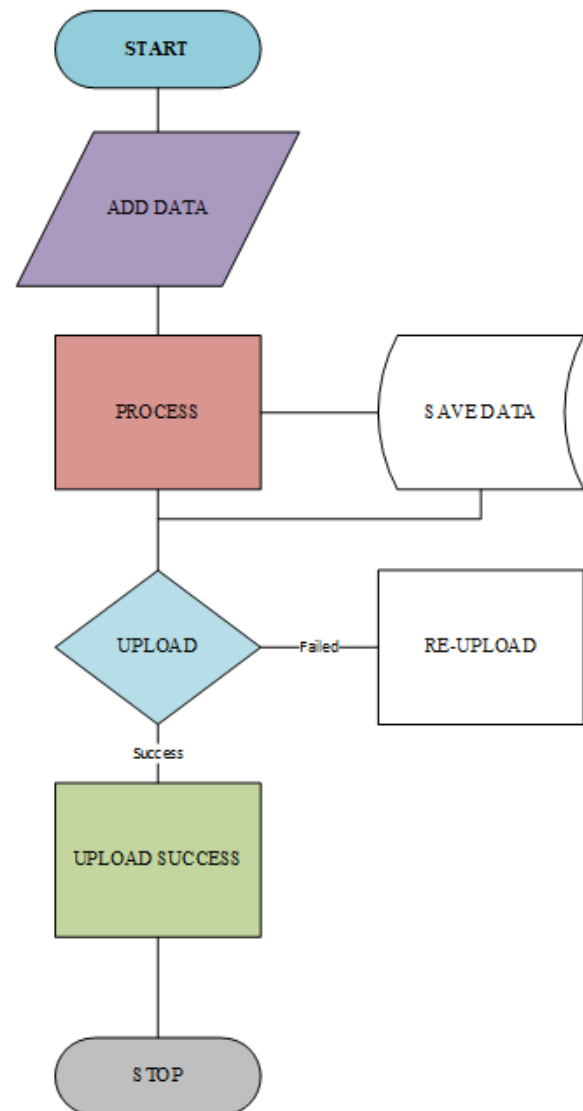**Flowchart Login Employee**

Fig 1: Employee Login Flowchart

a. The flowchart diagram above describes the flowchart of the system management process in the login level of employees and the OPD admin level, where employees add submissions and upload files and then the OPD admin performs verification of the submission files that appear on the dashboard page.
b. This flowchart diagram explains the flow of the system management process in the Super admin level login, where the Super admin can carry out file verification activities, monitor files and print out data reports that appear on the dashboard page.
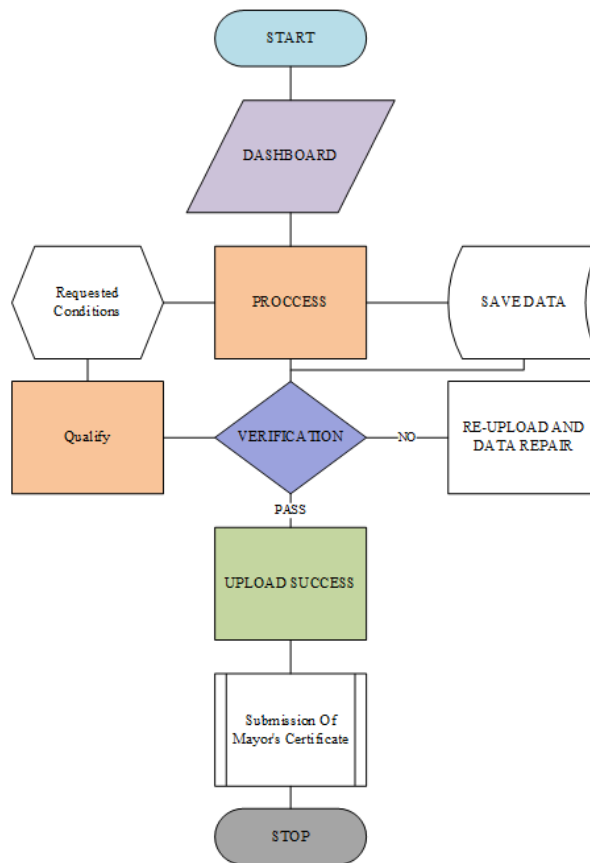
Flowchart login admin OPD

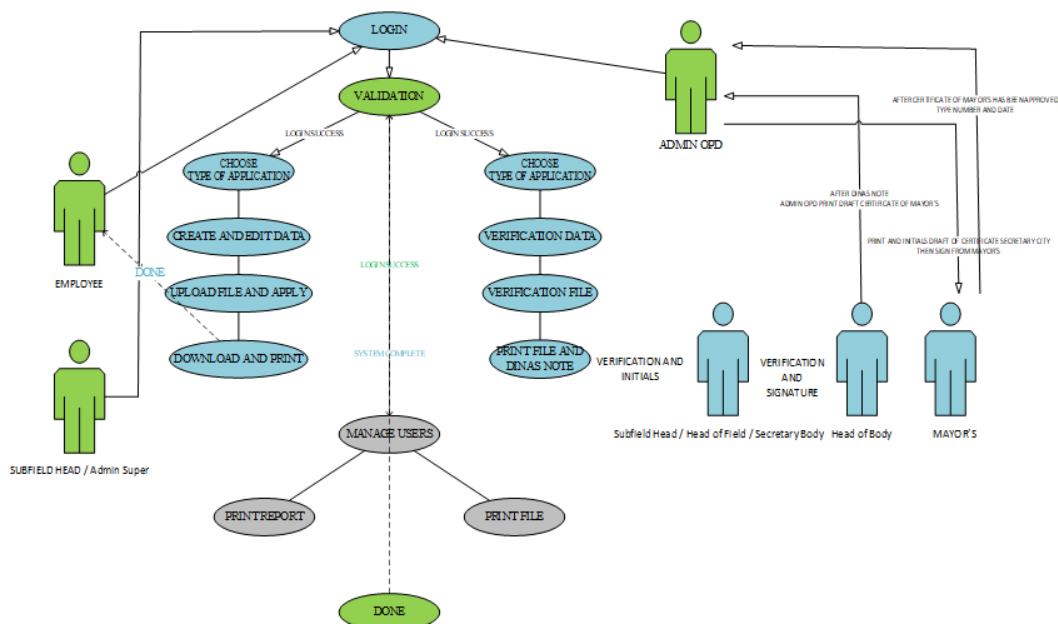**Fig 2:** Admin Login Flowchart

Use Case Diagrams

Fig 3: Use Case Diagram image

In the picture above, there are 3 actors: employees, OPD admin, Super admin.

Research Methods
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To obtain a clear picture of this research, the authors need to obtain accurate data. Some of the steps taken to obtain the data are as follows:

Direct Observation (observation)
The author made direct observations of the object under

study, namely the Office of Personnel and Human Resources Development of Pekanbaru City. The things that are observed are activities that occur in the field, and record systematically about certain things that are observed. that is:

a. The author makes observations on the submission process by employees and managers who verify.
b. The author makes observations on the results of the output and the suitability of the desired results with the facts of the existing data.

Direct Communication or Interview
This interview was conducted by collecting data and communicating directly with the research object in order to obtain more accurate information about problems that were previously unclear. In this case, the author conducted direct interviews with the library management officer of the Faculty of Engineering, Madura University, as well as users of digital libraries. The author's concern is the available data and the suitability of the search desired by the user against the search results that have been carried out.

Discussion
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Program Logic
Logic and programming algorithms are something different but cannot be separated when used to build a product using a programming language. Logic can be used to solve programming problems at hand, while algorithms will make these problems resolved in a coherent manner according to the proper flow.

The tests carried out, testing using Blackbox Testing involves all actors in the system. All the actors involved in this consist of employees, OPD Admins, Super Admins, Sub-Division Heads. Here are the results of the application discussion from the results of the tests that have been carried out:

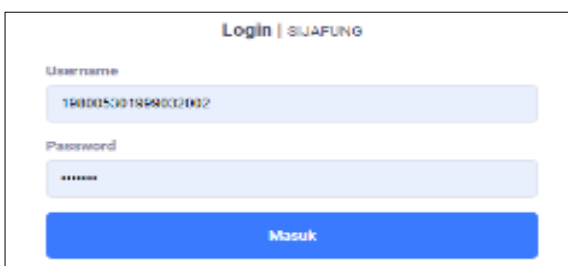**1. Login Menu**
a. Login Form Display

Fig 4
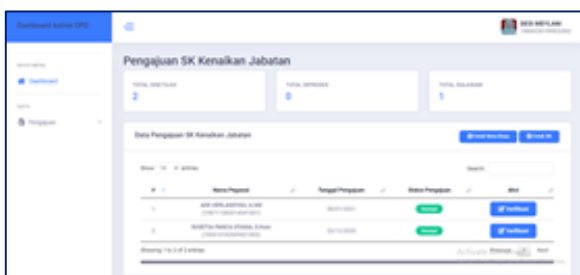
2. Dashboard
b. Dashboard View

Fig 5

3. Dashboard Level Data
c. Employee Level Dashboard Display
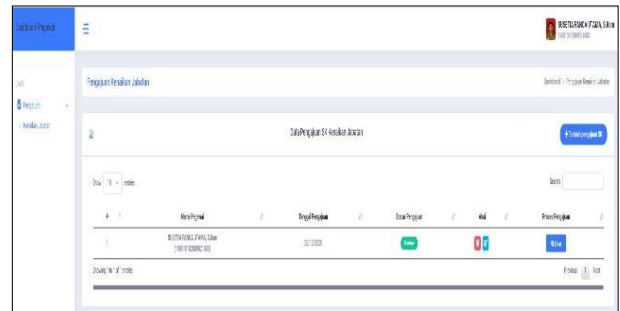

Fig 6

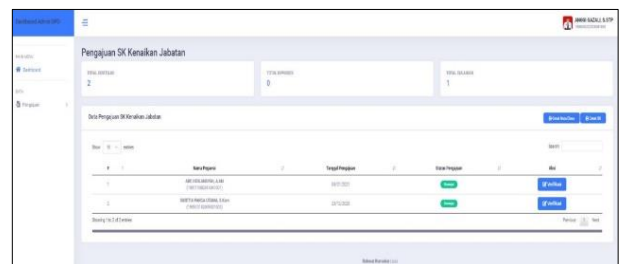d. OPD Admin Level Dashboard Display

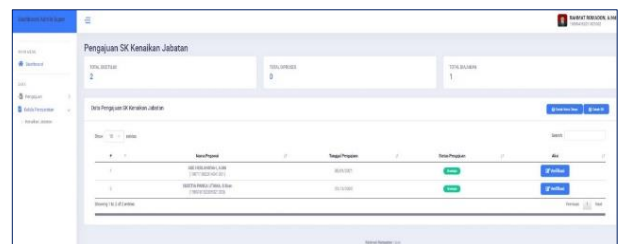**Fig 7**

e. Super Admin Level Dashboard View

Fig 8

Conclusion
The Functional Position Information System at the Pekanbaru City Personnel and Human Resources Development Agency has been running and functioning as needed to provide convenience for employees who will propose a SK for Functional Positions without having to meet face-to-face and deliver documents to the Pekanbaru City BKPSDM. The Functional Position Information System can make it easier for Verifiers or file managers to verify files and communicate online. The information system that has been built is able to display data and information properly and makes it easy for the Head of the Career Development and Promotion Sub-Division to monitor, evaluate and make reports without having to take data from staff.

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