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Online Disposition Data Based Management System

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ABSTRACT

The development of technology nowadays is so fast, technology has become part of the people's lifestyle. The presence of technology in human life can facilitate and accelerate all activities carried out so as to increase work effectiveness. Including services via smartphones and the internet. This has prompted many companies to develop their network and technological facilities. To be able to continue to develop in this increasingly rapid technological era, a company needs to present a data management system, namely a database system that provides computerized services and facilities. The main principle of a database system is to organize a set of interrelated data, while the main purpose of a database is the ease and speed of retrieving data to solve problems in systems that use a file-based approach. The result of this research is to observe the online disposition system data management.

1. Introduction

The rapid development of technology in the era of the Industrial revolution 4.0, making competition in the business world tighter both in terms of technology and in terms of business development itself requires companies to create an effective information system to be developed in response to competitive competition.The rapid development of technology in the era of the Industrial revolution 4.0, making competition in the business world tighter both in terms of technology and in terms of business development itself requires companies to create an effective information system to be developed in response to competitive competition.The rapid development of technology in the era of the Industrial revolution 4.0, making competition in the business world tighter both in terms of technology and in terms of business development itself requires companies to create an effective information system to be developed in response to competitive competition.

Competitive competition in this technological era requires companies to be able to provide services both to customers and to internal companies themselves. Seeing this, for internal purposes, a system that is capable of supporting The use of abbreviation is permitted, but the abbreviation must be written in full and complete when it is mentioned for the first time and it should be written between parentheses is required. Terms / foreign words or regional words should be written in italics. Notations should be brief and clear and written according to the standardized writing style. Symbols / signs should be clear and distinguishable, such as the use of number 1 and letter l (also number 0 and leter O). In this manuscript doesn't allow to use bullets and numbering. At the end of this paper both of the colomns should be in balance. You also have to activated widow or orphan control in order to ensure that there are no single line of sentence at the end of column section.

Business processes by providing an information system either via a computer or smartphone. One of the roles of information systems in companies is to provide a database management information system. BPK PENABUR Bandung is one of the companies that has used a database management information system in an online disposition system in 2018. The online disposition system provides services and facilities that can facilitate good communication in correspondence, decision making and important information for interested parties, which can be accessed via a computer or via a smartphone. So that this facility can be accessed anywhere by the user.

This online disposition information system already uses database management system technology that can facilitate data management, data integration, data track records and data security that are easy to access by users. In this study, we will discuss the database management system in the online disposition system at BPK PENABUR Bandung, starting from the objectives of the online disposition system, the background of making the Online Disposition System, system design, user identification, function identification, system

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testing, system implementation and system maintenance. This research is to see the online disposition database management system that has been run at BPK PENABUR Bandung.

2. Literature Review

This research is a research that makes online disposition system management an object. In this study, there are several data collection methods used, namely:

A. Literature Method

The method of collecting library data is done by collecting data from sources or books that are relevantto the research.

B. Metode Wawancara

The interview method is carried out by asking directly to the data manager and the online disposition system.

3. Research Methodology

A. Research Object

The object of research was conducted at the BPK Penabur Bandung with an evaluation service in the form of a Disposisition Online System.

B. Research Methods

a) Literature study of software quality factors.
b) Making a list of software quality factor variables
c) Software quality assessment
d) Processing the results of filling out the results of interviews on the quality of the software
e) Evaluate the results of filling in the software quality factor.

4. Results and Discussion

A. Purpose of the Online Disposition System

This data management system was built to make it easier to manage data and track data so that it is expected to increase work effectiveness.

B. Background is made by Online Disposition System

Because before using the online disposition system using a manual or hardcopy file system without an integrated system, there were several problems, namely:

a) Data is less organized and integrated, making it difficult to trace its existence.
b) In the process of requiring a third person, namely the expedition who does not necessarily understand the level of importance of the disposition.
c) The form of hardcopy requires a place in storage as an archive.
d) Easily tucked away because it is in the form of hardcopy and it is difficult to find its existence if it is tucked.
e) There are no duplicates when the process is running.
f) Not in accordance with the development of the digital age so that actors are less interested.

This background has made BPK PENABUR Bandung build an online disposition system which is expected to be able to answer problems in the manual system that was implemented previously.

C. System Design

a) *ERD* (*Entity Relationship Diagram*)

ERD (Entity Relationship Diagram) is a model to explain the relationship between data in a database based on basic data objects that have relationships between relationships.Below is an ERD view of the online disposition system:

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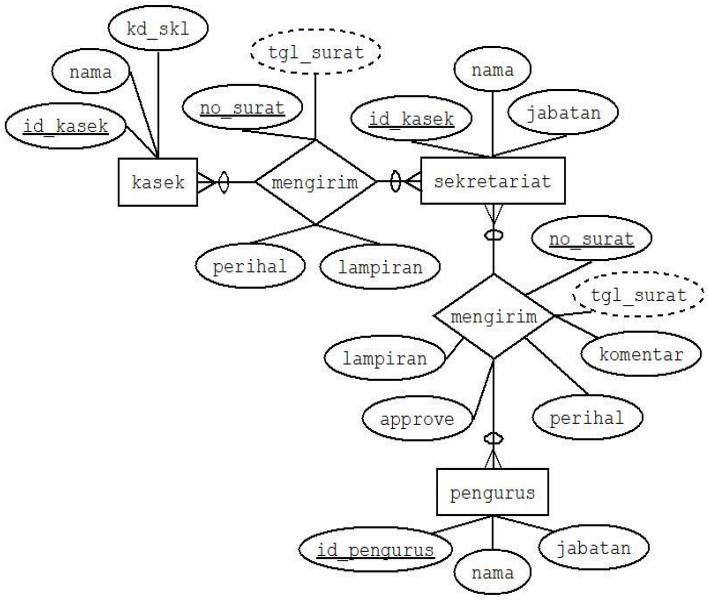

Fig 1. *ERD* Sistem Disposisi Online

D. Process Description

The general description of the process description in this online disposition system is that every user must log in to be able to use this system. After successfully logging in, the user will enter the dashboard page which has 4 menus:

a) Home

On this home page users can use several features, namely the file submission page, uploading files if needed, looking for dispositions that have been submitted based on subject, letter number, or based on down payments.

b) Mail

There are 2 features prepared in the Mail menu, namely unread and tracking. Unread is to see incoming and unread files by related users, while tracking is to see the position of the files that we have sent.

c) User Profile

There are 2 features in this user profile menu, namely last user activity and change password. Last user activity to see the last user and change password to change the user's password.

d) Log Out

Menu for user can exit the system

E. Prototype

a) Login

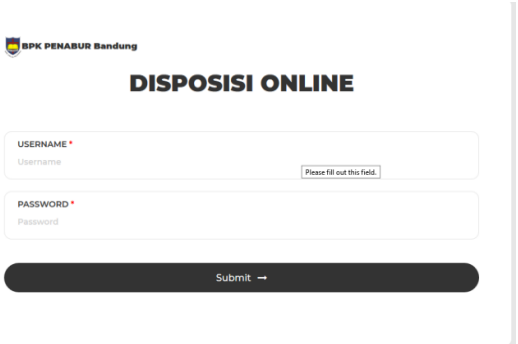

Fig 2. User Log in Interface in the Online Disposition System

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b) Home

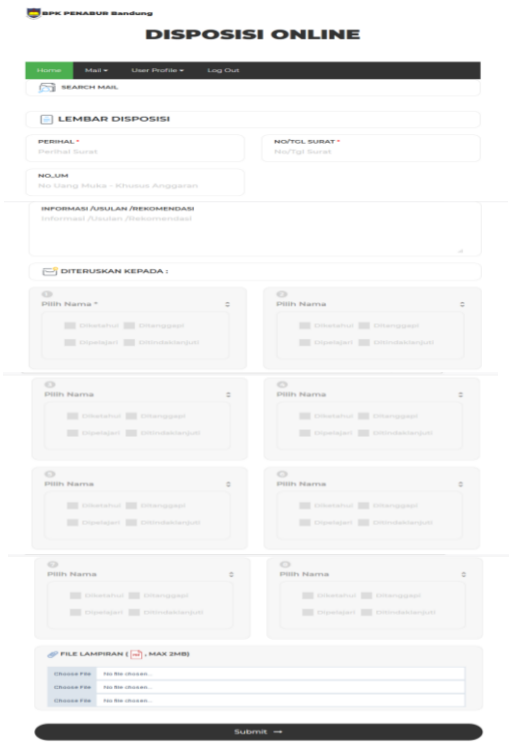

Fig 3. Home Interface in the Online Disposition System.

c) Mail

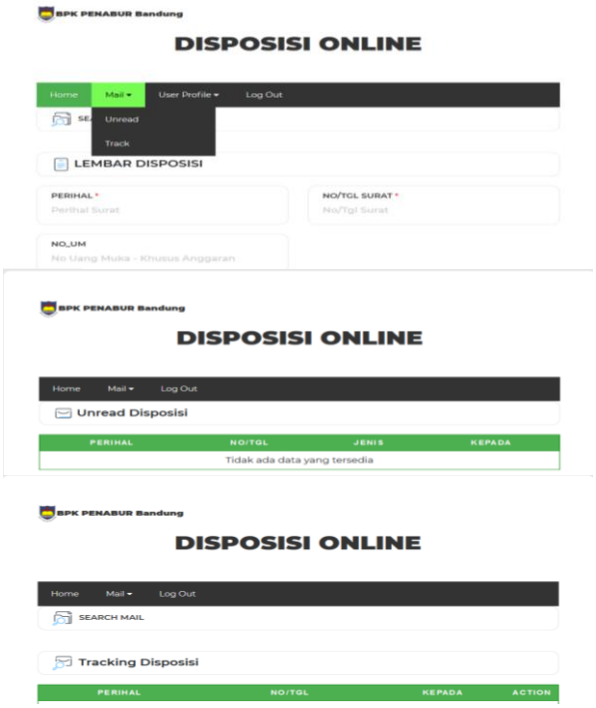

Fig 4. Mail Interface in the Online Disposition System

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d) User Profile

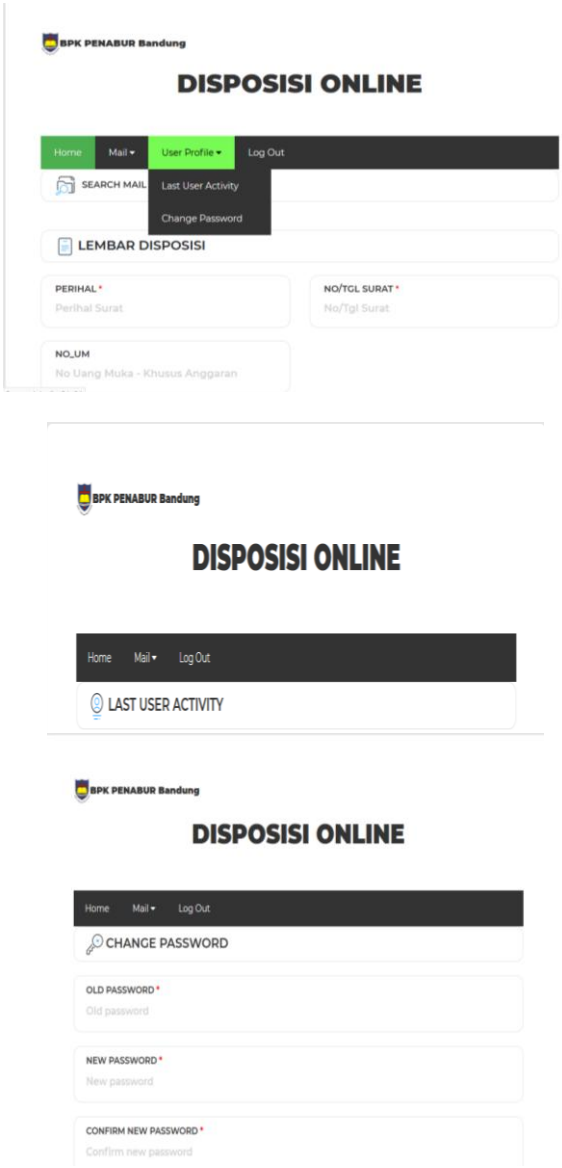

Fig 5. User Profile User Interface in the Online Disposition System.

e) Log Out

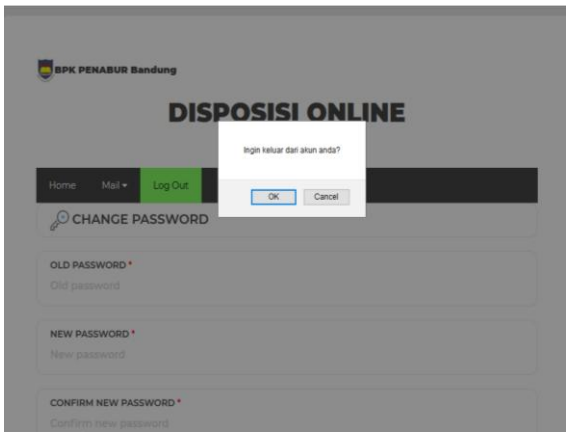

Fig 6. User Logout Interface in the Online Disposition System.

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F. User identification and Function identification

a) User Identification

This Online Disposition information system has three users, namely School, Secretariat and Management.

b) Function Identification

Table 1.
Identification of functions

Current Functions	New Functions
School 1. Make a letter of application and send it via forwarder. 2. Confirm the position of the file.	1. Create a submission letter, upload it into the system. 2. Check the file position and receive responses or approvals through the system.
Department 1. Receiving letter files from the school, distributing them to relevant sections in the secretariat. 2. Receiving files from the relevant department in the secretariat, sending files to the management via the forwarder. 3. Receiving and filing files that have been approved by the management. 4. Create a reply letter and send it to the school.	1. Provide response or approval through the system related to the application file from the school in accordance with its authority 2. Send to authorized management through the system for approval.
Staff Doing approval in a hardcopy file and sending it to the secretariat via the forwarder.	Provide response and approval through the system.

G. System Testing

At the beginning of using the Online Disposition System, the system was tested by running the functions and features in the system, then the results were seen, whether these functions and features match the results that had been planned.

a) Login

Table 2.
Login menu

Feature	Procedure	Design Result	Result
Login	User enters user name and password then click login.	The user enters the Home page.	Succeed

b) Login as School

Table 3.
Login as School

Feature	Procedure	Design Result	Result
View unread files.	User select Mail, click unread.	The user enters the unread menu.	Succeed
View file position.	Users select Mail, click tracking	The user enters the tracking menu.	Succeed
Last active user.	User select user profile, click on last user activity.	The user enters the last user activity menu.	Succeed
Change Password	User select user profile, click on change password.	The user enters the change password menu.	Succeed
Log out	Click log out, click ok.	The user exits the system to the login feature.	Succeed

c) Login as Department

Table 4.
Login as Department

Feature	Procedure	Design Result	Result
Forward the file to the relevant department or	In the unread feature, the user fills in the column passed to,	The user enters the tracking page.	Succeed

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Feature	Procedure	Design Result	Result
administrator.	click submit.		
Provide response or approval.	In the unread feature, the user fills in a response and clicks approval on the file to be approved.	The user enters the home page.	Succeed
View unread files.	User select Mail, click unread.	The user enters the unread menu.	Succeed
View file position.	Users select Mail, click tracking.	The user enters the tracking menu.	Succeed
Last active user.	User select user profile, click on last user activity.	The user enters the last user activity menu.	Succeed
Change password.	User select user profile, click on change password.	The user enters the change password menu.	Succeed
Log Out.	User click log out click ok.	The user exits the system to the login feature.	Succeed

d) Login as Staff

Table 5.
Login as Staff

Feature	Procedure	Design Result	Result
Provide response or approval.	In the unread feature, the user fills in the response column and clicks approval on the file to be approved.	The user enters the tracking page.	Succeed
View unread files.	User select Mail, click unread.	The user enters the tracking menu.	Succeed
View file position.	Users select Mail, click tracking.	The user enters the tracking menu.	Succeed
Last active user.	User select user profile, click on last user activity.	The user enters the last user activity menu.	Succeed
Change password.	User select user profile, click on. change password.	The user enters the change password menu.	Succeed
Log Out.	User select log out, click ok.	Exit the system to the login feature.	Succeed

H. System Implementation

This stage is the stage of relating the online disposition system to be ready for use by users, in this case schools, secretariats and administrators, so that it is hoped that the system can run well and the process of file responses and approval can be carried out through this system.

I. System Maintenance

After the system is used by the user, the next step is to evaluate during the implementation of the system, whether this online disposition system is in accordance with the planned objectives or not. If there is still need for development and improvement, it is necessary to make improvements.

For system and database management, this online disposition system uses a shared hosting server from one of the hosting providers

5. Conclusions

Based on this explanation, conclusions can be drawn : Data management in the online Disposition system at BPK PENABUR Bandung has used a Database Management System, The database management system can facilitate data management, data integration, data tracking, so that problems in manual systems, namely data management, can be reduced.

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