REAL TIME MONITORING SYSTEM EGGTRAY PRODUCTION PROCESS PT.SINAR ERA BOX GRESIK

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ABSTRACT

PT. Sinar Era Box Gresik does not yet have a production process information system, so that all activities of production process process have not been well accommodated, for example production data file such as raw material mixing data, HPP (Cost of Production), production cost, raw material stock, production stock. Coordinator in data entry all aspects also not terakomodir well, and also data entry is still done manually and still have to meet with aspect concerned. System design is done by modeling language DFD (Data Flow Diagram) with system testing apply black-box testing with functional testing and error handling testing. While the programming language that is in use is PHP with framework CI (Codeigniter) and using database MySQL and the final result of the design is generating. RealTime Monitoring System Production Process Eggtray PT. Sinar Era Box Gresik is very helpful because it simplifies the employees and also the owner in monitoring the production process.

Keywords: *Information Systems, Production Process Monitoring, DFD, black-box, functional testing, error handling.*

I. INTRODUCTION

The rapid development of technology and the increasingly fierce competition between companies in this era of globalization, requires that the existing performance within the company runs professionally and appropriately. Similarly, all activities that include planning and processing in order to get maximum results for the company.

PT. Kenjaya is one of the avalan paper processing company located in gresik. Along with the development of business opportunity from avalan paper processing and existence of high level of market requirement, hence in year 1999 this company started to penetrate the business of making carton box and changed its name to PT. Sinar Era Box. However, the company keeps the company's previous working principle, that the production process in the factory is very concerned about the ecosystem and the materials used are environmentally friendly recycling materials. In 2011 PT. Sinar Era Box began to establish andivision industrial packing that uses paper waste, such as egg shelves (eggtray), shoe soles and trays light large enough to meet the American and European markets. However, the company is still less than optimal in the process of mixing raw materials making eggtray. So in the process and the results of its production sometimes experience delays and does not meet market demand.

Monitoring System is a continuous assessment of the function of program activities in terms of the schedule of input / input data input by the target group relating to planned expectations. In general, Monitoring aims to get feedback for the needs of the ongoing learning process program, by knowing this need the implementation of the program will soon prepare the needs in the learning. Needs can be cost, time, personnel, and tools. The implementation of the program will know how much it will cost, how long it will take for the activity. Thus will be known also how many personnel are needed, as well as what tools should be provided to implement the program.

Based on the above description will be conducted a study on RealTime Monitoring System Eggtray Production Process. As expected to facilitate the monitoring process of eggtray production at PT Sinar Era Box Gresik.

II. REVIEW OF REFERENCES

Krisnanta Yudha Pratama, Ariya Dwika Cahyono, Hendro Steven Tampake, 2013, Computer System and Infrastructure Monitoring Applications rel-time using Java and Web Service. PT. PLN (Persero) Distribution Jakarta Raya and Tangerang have computers and servers that are used to support the process and service operations to the

community so it must be ensured reliability, but the growth of the number of computers and serveryang many with diverse specifications located at locations scattered in all units of service, then will be difficult in performing IT asset management as well as monitoring hardware and software specifications on a computer or server. IT asset management as well as computer or server monitoring has been done manually that is checking directly on the computer is a very difficult and ineffective problem handling, based on existing problems, designed a monitoring application system and computer infrastructure by applying Web Service technology because it supports interoperability machine-to-machine interaction through a network. The design of this application using client-servermodel which consists of two applications: the first application agent for detection and send data hardware and software specifications designed using Java, Web Service is used for data transmission, Both web monitoring applications to display the detection results are designed using PHP, application is expected to be a solution for IT asset management, monitoring hardware and software specifications computer or serverserta improve performance PT. PLN subfield of Information Technology.

III DESIGN SYSTEM

3.1 *Flowchart*

Figure 1 Flowchart Admin

In Figure 1 explains that the first process to log in password. If you do not have an account then the admin will create an account first. If it is then it will enter as admin. Admin will go into the system and perform the process of operating system monitoring onproduction process eggtry. Next admin will perform user data entry, car, and transaction. Determine car rental scheduling. After doing all the processes, then the admin has finished operating the scheduling system.

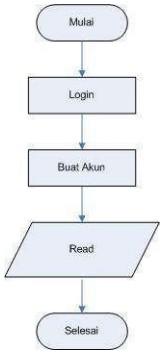

Figure 2 Flowchart User

In Figure 2 explains that the first process is to log in password. If you do not have an account then the user will create an account first. If yes it will enter as user. The user will enter the monitoring system of production process egg try and view the data that has been operated admin.

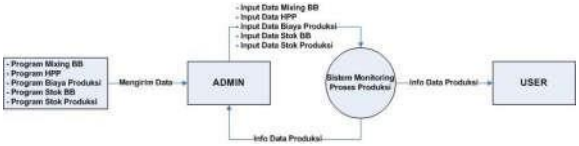

Figure 3 DFD

In Figure 4.3 it is explained that the input data consists of Mixing BB, HPP, Production Cost, BB Stock, Production Stock. The output data consists of production data information.

IV IMPLEMENTATION AND TRIAL TEST

4.1 IMPLEMENTATION

Examples of system implementation are as follows:

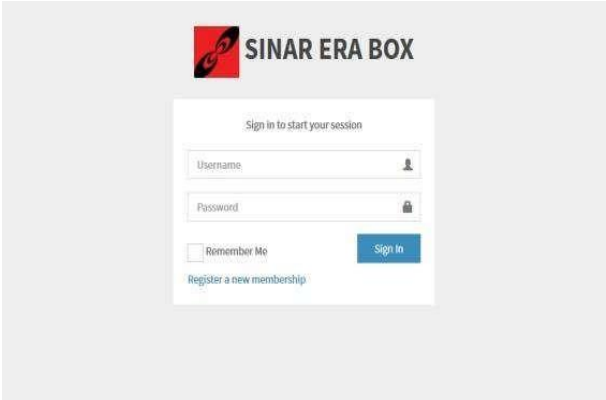

Figure 4page Login

Figure 5page Home

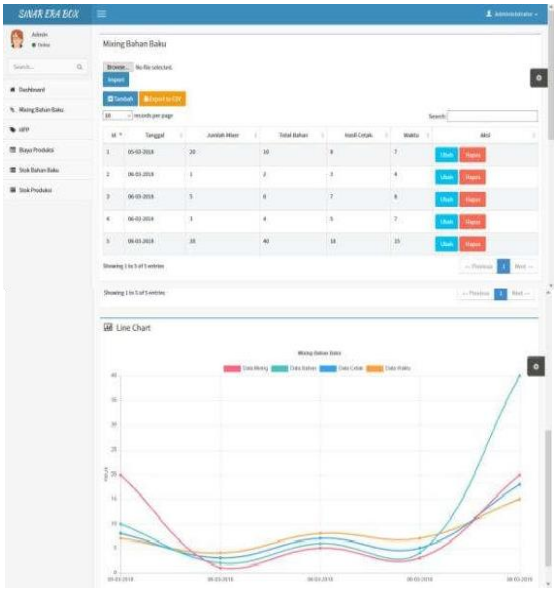

Figure 6 Menu page Mixing Raw Material

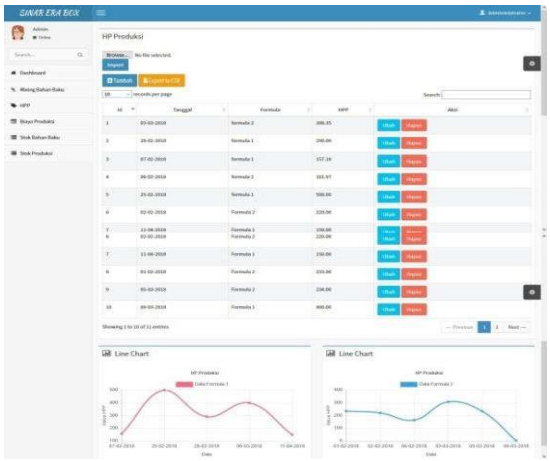

Figure 7 Page HPP Menu

Figure 8 Menu Page Production Cost

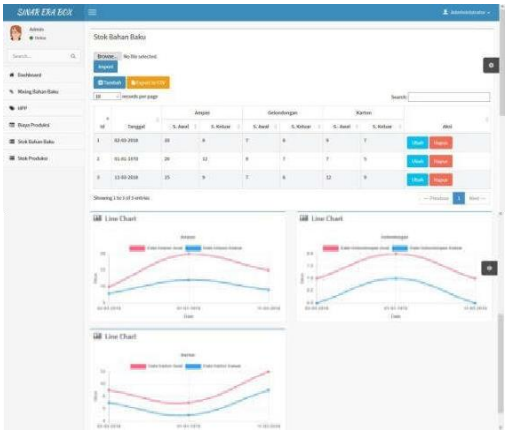

Figure 9 Page Menu Material Raw Material

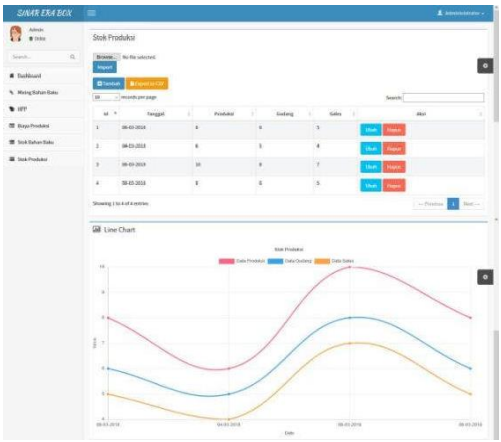

Figure 10 Page Production Stock Menu

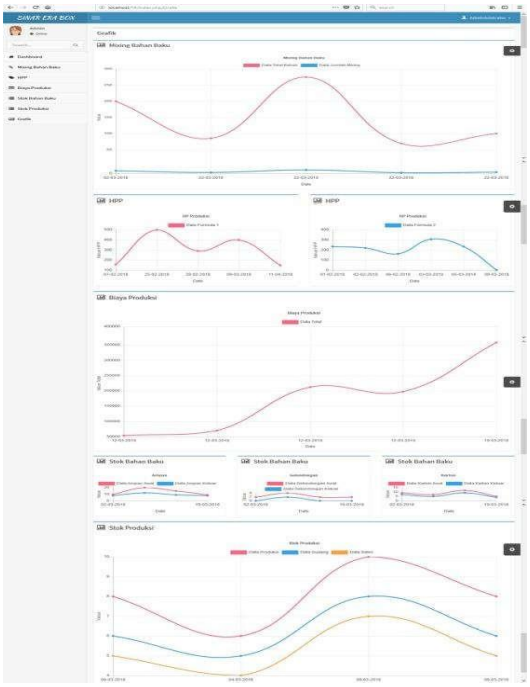

Figure 11 Page Menu Graph

4.2 TEST RESULTS

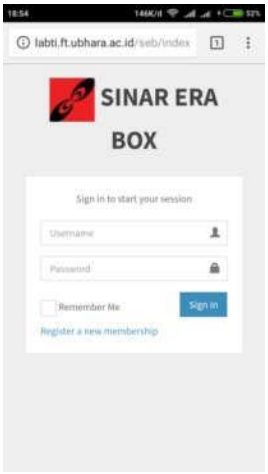

Figure 12 Admin or User can enter into the system through thepage login

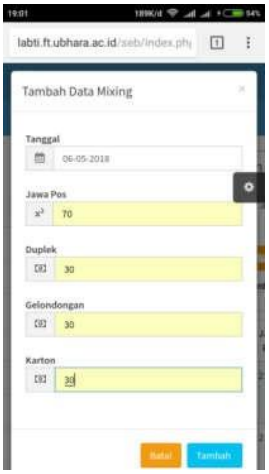

Figure 12 Input Data Mixing Raw Materials (Mobile Browser)

Figure 13 Admin input data HPP (Cost of Production) on the sub menu "HPP" via mobile browser.

And for other menu test process try almost exactly same with the above.

Figure 14 The system shows validation when one inputs a username or password.

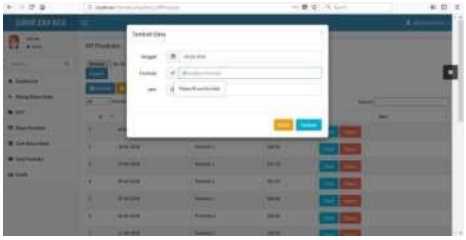

Figure 15 The system displays validation when incorrectly entered data or does not fill in the available data on the input form.

In addition to the above two events the following list of errors or omissions of the *user* that can be displayed by the system.

No.	Kejadian	Sub Kejadian	Penanganan Oleh Sistem
1.	Login	-Salah input user ID	Sistem menampilkan pesan "Invalid *username* or *password*"
		-Salah input password	
2.	Input Data Mixing	-Inputan kosong	Sistem menampilkan pesan "*Please fill out this field*"
		-Inputan kurang	
3.	Input Data HPP	-Inputan kosong	Sistem menampilkan pesan "*Please fill out this field*"
		-Inputan kurang	
4.	Input Data Biaya Produksi	-Inputan kosong	Sistem menampilkan pesan "*Please fill out this field*"
		-Inputan kurang	
5.	Input Data Stok Bahan Baku	-Inputan kosong	Sistem menampilkan pesan "*Please fill out this field*"
		-Inputan kurang	
6.	Input Data Stok Produksi	-Inputan kosong	Sistem menampilkan pesan "*Please fill out this field*"
		-Inputan kurang	

Table 1 Form Validation

V. CONCLUSION

Based on the results of research and discussion that have been done, can be concluded that:

1. RealTime Monitoring System Production Process Eggtry PT. Sinar Era Box Gresik, runs in accordance with required procedures, and has been proven by the questionnaire listed in chapter VI.
2. Users of RealTime Monitoring System Production Process Eggtry PT. Sinar Era Box Gresik is the owner of the company (owner).
3. Based on the results of testing in the functional testing can be seen that the course of the program is in accordance with the production process procedures required by the admin. In addition the system can anticipate errors or omissions admin in 6 events. From the test results above can be stated that the system has been feasible test of the functional testing and error handling testig.

VI. SUGGESTION

Based on the results of research and conclusions, suggestions that may be useful for PT. Sinar Era Box Gresik is as follows:

1. Admin must do the utilization and use of system optimally as information media will accelerate the delivery of information.
2. Implementation of the system will run well and smoothly if all parties concerned support the implementation of production process monitoring system.
3. Production monitoring system should always be analyzed whether the system is still feasible or not to be used, so it can be known whether or not the development or replacement of existing systems in order to meet the needs of PT. Sinar Era Box Gresik.

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