



## DESIGN INFORMATION SYSTEMS OF PRODUCTION RESULTS IN THE RAJAWALI BROMO CONVECTION INDUSTRY, MAKASSAR

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### ABSTRACT

The development of the era where everything is instantaneous and fast as it is today must be supported by the development of increasingly sophisticated information technology. One of the functions of this technological development is to obtain accurate and fast information. But in fact, there are still companies / organizations that have not used computer technology as a work aid, such as the Bromo Rajawali Convection which still uses the manual method of writing employee data, namely data storage still using books. Therefore, the design of an employee data management information system is carried out that can help companies control the production data of each tailor employee. The method used in this research is the Waterfall method. It is called a waterfall because the steps that are passed must wait for the completion of the previous stage and run sequentially, for example the design stage must wait for the completion of the previous stage, namely the requirements stage [1]. The Waterfall method consists of 5 stages, namely Analysis, Design, Coding, Testing and Maintenance. The purpose of this study is to design an information system that can make it easier for companies to write down employee production data accurately. From the design results, there are two factors that support the running of the system, namely administration and production data, the input form available on the system that has been designed, namely the login input form and the employee data input form, while the output form contains complete data related to employee personal data and employee production data. With the creation of a management information system in writing data on employee production, the Rajawali Bromo Convection can accelerate the search for more accurate data in the future, and applications made later by the company can be used properly as one of the employee production data systems.

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## I. PRELIMINARY

The development of the era where everything is instantaneous and fast as it is today must be supported by the development of increasingly sophisticated information technology. But in fact, there are still companies / organizations that have not used computer technology as a work aid, such as the Bromo Rajawali Convection which still uses the manual method in their work without using a computer as a tool. Currently, the Rajawali Bromo Convection is still using manual methods in writing employee data, namely data storage is still using books. The process of searching and checking employee data carried out by the company runs for a long time, which is about a few minutes per employee, so data checking is not accurate. Therefore, the design of an employee data information system is carried out which can help companies determine employee wages from the time data and the number of work defects for each employee.

System design is the process of configuring and describing system elements to be applied or implemented as a complete and functional system after analyzing the running system and implementing the functional requirements to be achieved [2]. The system can be defined as elements that are related to each other to carry out the same purpose. Furthermore, developing a system requires the involvement of four components, namely input, processing, output, and feedback or control [3]. The four components are combined into the stages of system development (System Development Life Cycle). This cycle is a gradual approach to analyzing and designing a system that is more specific to user activities [4]. The general stages in developing the system include the system planning stage, system design, system implementation, and system utilization [5-6]. Database is an arrangement or complete set of operational data from an organization or company [7], set of related data groups [8].

Data flow diagrams are a data logic model or process that is made more detailed than the allowed context diagrams, which can be achieved by developing diagrams [10].

## II. RESEARCH METHODOLOGY

### 2.1 Time and place of research

The one-month study period from January 20 - 20 March that took place at the Rajawali Bromo Convection on 127 B, Makassar City.

### 2.2 Data Source

#### a. Primary Data

This study uses primary data, namely by making direct observations on Rajawali Bromo Convection, Makassar.

#### b. Secondary Data

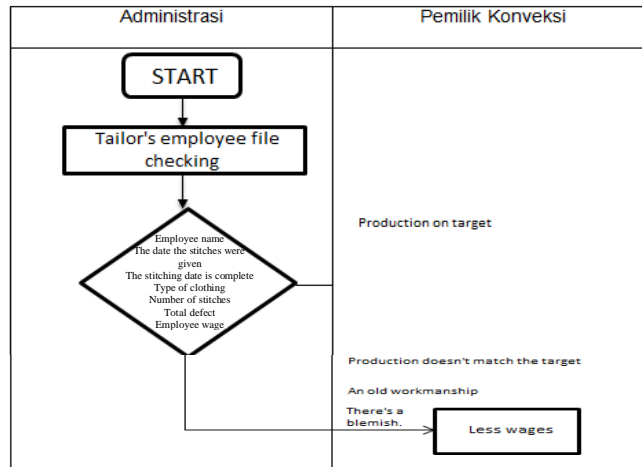
This study uses secondary data, namely employee production data for the last 1 month from February to March

### 2.3 Research Methods

The research method used in this research is the Waterfall Method. The steps of the Waterfall Method consist of 5 stages. The first stage is Analysis, which is to find as much information as possible about the system being studied. The second is Design, namely doing system modeling with. The third stage is coding, which is the implementation of a system that has been designed and tested in units. The fourth stage is Testing, which is the stage of testing the whole system. And the last stage is Maintenance, which is the stage of using the system by the user in which there must be system maintenance which is likely to be carried out in future system development.

### 2.4. Result and Discussions

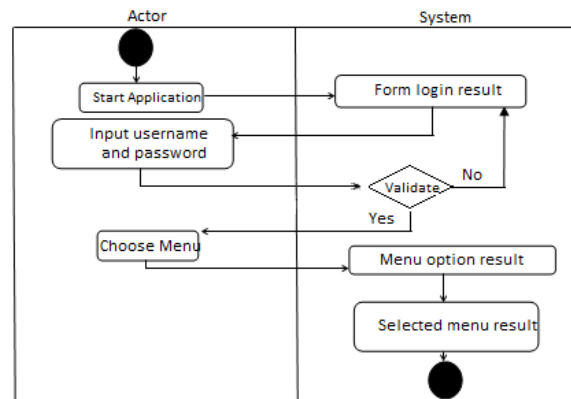
Konveksi Rajawali Bromo is a company engaged in the field of convection located in Makassar City which requires a management information system in writing production data for tailor employees who previously still used manual methods.



**Image 1. Flowmap system old**

Image 1 describes the initial system condition of the tailor employee data checking process at the Rajawali Bromo Makassar Convection. The administration department checks the employee data archive book, then from this data it can be seen that every employee who has production results according to the target,

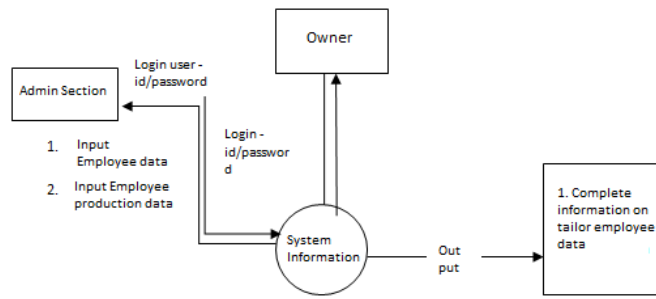
namely the production process is fast and there are no defects, the owner of the convection will provide the appropriate wage. Meanwhile, employees whose production does not meet the target, that is, are disabled, then the owner of the convection gives inappropriate wages.



**Image 2. Activity Diagram Process Login**

Figure 2 describes the roles of actors and systems. Where the actor is the person who runs the system to be created. The actor will start the application then the system will display a login form then the actor enters the login form which contains the username

and password. Then the system will validate whether the username and password is correct or wrong. Then if it is correct it will display the menu and the actor will select the menu and the system will display the selected menu.

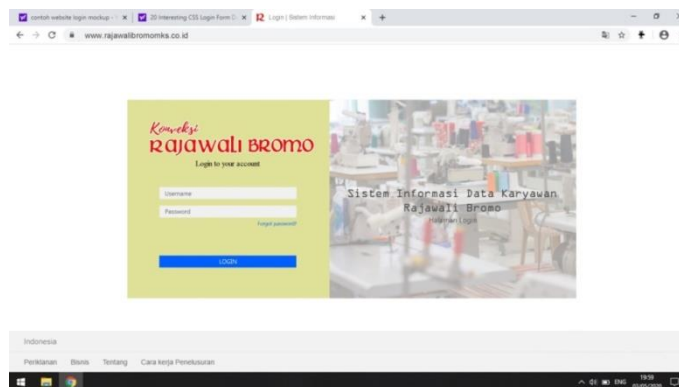


**Image 3. Data Flow Diagram**

Figure 3 shows the Data Flow Diagram, namely the flow of the system where in the system design the main thing is to determine the source of information, then the obtained

in the form of data is processed into the database system to produce data output from decisions about the state of the machine.

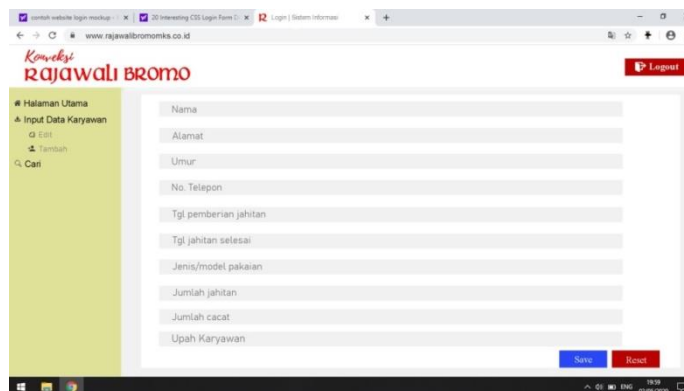
### Prototype



**Image 4. Form Input Login**

Image 4 is an illustration of the login input where the user is the administration and owner of the Rajawali Bromo Makassar

convection. This login input form has a username and password display, users will be free to choose their own password.



**Image 5. Form Input Data Karyawan**

Figure 5 is an illustration of the employee data input which contains the employee's name, address, age, telephone number, date of delivery, date of completion of the

stitches, type / style of clothing, number of stitches, number of defects, and employee wages.

Nama	Alamat	Umur	No. Telepon	Tanggal pemberian	Tanggal Jahitan	Model Jahitan	Jumlah	Jumlah Cacat	Upah Karyawan
Nia	Jl. Todopuli	30	08534092xxxx	31 - 01 - 2020	07 - 02 - 2020	MDL BULET PITA	100	-	Rp. 500.000 -,-
Emi	Taeng - Gowa	35	08525665xxxx	02 - 01 - 2020	08 - 01 - 2020	MDL V. KARET	100	-	Rp. 500.000 -,-
Nur	Taeng - Gowa	37	08234564xxxx	15 - 01 - 2020	22 - 01 - 2020	MDL SAKU 2 TALU	100	-	Rp. 500.000 -,-
Nurhayati	Taeng - Gowa	40	08524164xxxx	17 - 01 - 2020	22 - 01 - 2020	MDL BOBOK KANCING	100	-	Rp. 500.000 -,-
Ros	Jl. Teluk Bayur	40	0823437xxxx	12 - 01 - 2020	19 - 01 - 2020	MDL KANCING BAHU	100	-	Rp. 500.000 -,-

Image 6. Form Output Data Karyawan

Image is the result of searching for employee data. If the admin has inputted data containing name, age, telephone number, address, date of work, date of completion of stitches, number of stitches, number of defects and employee wages.

#### IV. CONCLUSION AND ADVICE

##### 4.1 Conclusion

From the results of designing a production data management information system for employees of Rajawali Bromo, it can be concluded that:

1. Checking and inputting production data for the employees of the Bromo Rajawali Convection will be quickly accurate.
2. This application can be used properly as one of the employee production data systems whose aim is to facilitate the Bromo Rajawali Convection in managing employee data quickly and accurately.

##### 4.2 Advice

From the above conclusions, there are several suggestions in order to be able to use this application program optimally:

1. With this design so that in the future the web that will be made can be utilized optimally, socialization is needed from the convection to its employees.
2. The web that is made later can still be developed over time, therefore other references are needed that can make this application

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