PT. TEPAT INDUSTRY
MANUFACTURING INFORMATION SYSTEM

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Manufacturing is the process of changing raw materials into products, which is handling data process. But in reality, PT. Tepat Industry are still doing handling data process manufacturing manually which caused some problems and obstacles, such as inaccurate data, slow service to the customer, not safe storage of data and less structured data. Therefore required a Manufacturing Information System that makes it easy to handle data collection, improving service to customers, and the data storage safe and structured.

This Information system is using methodology waterfall consisting of problem analysis stage, using Design Data Flow Diagram (DFD) for the functional design model and Entity Relationship Diagram (ERD) model to describe the data, Coding using Borland Delphi programming language and MySQL database server, the Testing performed with the method of Black Box and Maintenance which is the final stage of the waterfall methodology.

This information system can be used to handle employee data collection, product orders from customers, sales transactions, purchase of raw materials and parts to the supplier and recorded turnover of goods in the warehouse.

Based on the tests that have been made available, the conclusion that it is functionally all processes on this information system to function properly, providing output in accordance with a particular input given. While based on the results of questionnaires to employees and customers can be concluded that this information system allows employees to handle data collection and better customer service.

1. Background

Manufacturing companies such as PT. Exactly Industry as a national business enterprise under the provisions - the provision of industrial engineering, require the information to establish the wheel industry. There are various kinds of data processing in it. One of the data processing will be discussed is the data processing of finished goods or products. Process - a process that is closely kaitanya with the purchase of products and raw materials selection, product marketing to customers, sales transactions, as well as goods in the warehouse setting.

For prospective customers that will make ordering products, it must be through the marketing staff to conduct transactions bidding. Then the marketing staff will conduct checks to employees of the warehouse to see if the goods ordered are available. If the product is not available at the warehouse then the marketing personnel will communicate with employees of the production. The flow of communication between employees is not neatly structured so as to disrupt services

2. Purpose

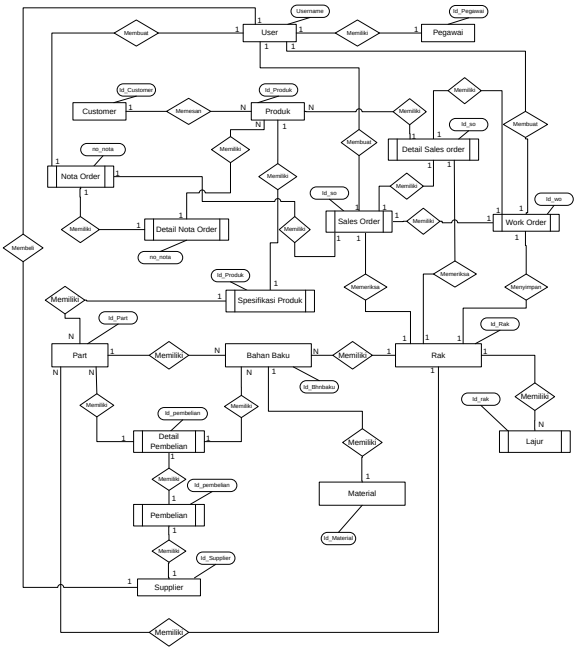
To facilitate the employees to handle data collection.
To improve service to customers.
To get a good database and structured

3. System Analysis

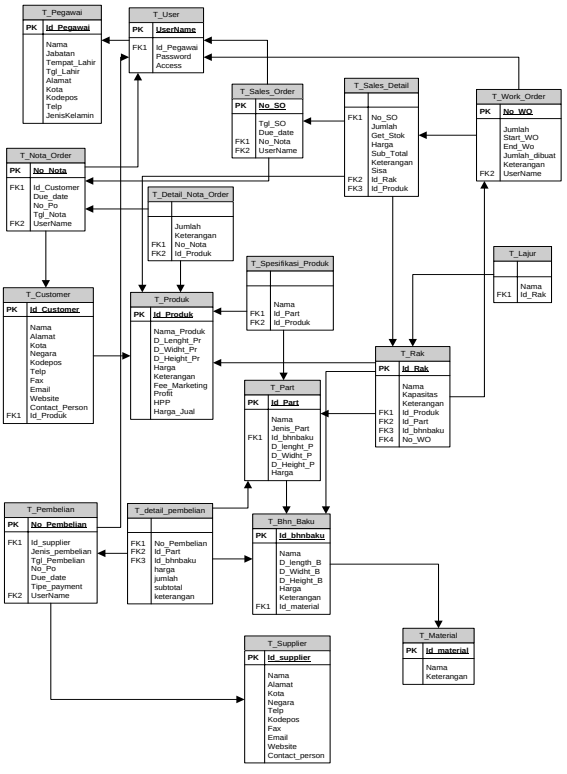
Systems analysis is the first step for the development of the system, because even the implementation of the system design will not be realized well without any analysis of the system is running now. Prior to the development and advance system design

needs analysis carried out database and information system that will be built.

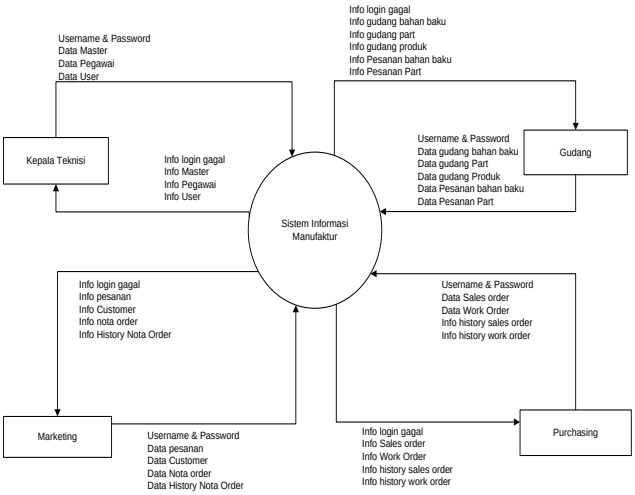
ERD



Relationship Table



contex diagram



4. Implementation

Implementation of the system is a continuation of the activities of systems analysis and design and can be seen as an attempt to realize the system has been designed and is laying stage so that the system is ready to be applied within the company and operated as soon as possible. Implementation of the system can be categorized into several stages, these stages in between

Interface



5. Conclusion

On the basis of the discussion of analysis and testing has been done, it can be concluded to the Manufacturing Information System in PT. Exactly Industry is as follows:

a Manufacturing Information System can assist employees in order to handle data collection products, raw data, part data collection, data collection products, transactions, and data warehouse products.
b Manufacturing Information System helps in improving service to the customer orders.
c Manufacturing Information System can provide information as needed for the build with the database that have been structured.