



Development Efficiency Integration Cost System PT. Agni Manggala Nusa Beyond Society 5.0

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Abstract: This paper aims to determine the development of a cost integration system at PT Agni Manggala Nusa. By using an analysis that can be interpreted in a Use Case diagram which is a functional description of a system. This use case emphasizes what the system does, and not "how" a Use Case represents an interaction between actors and the system. Actors in this cost integration are Outlet, Financial, Directors. Where the integration system can provide cost efficiency and save time in processing and producing data that can be accessed in real-time, and can be viewed anywhere.

Keywords: *Efficiency, Integration, Cost.*

INTRODUCTION

Along with the development of a management information system, which is one of the impacts of the times, it is urgently needed to help business activities to be more systematic and structured and can be implemented properly to meet the needs of companies that are required to develop from time to time.

"Management Information System is a series of comprehensive and coordinated and rationally integrated information sub-systems capable of transforming data into information through a series of ways to increase productivity by the style and nature of managers based on predetermined quality criteria." (Hadion Wijoyo, Aris Ariyanto, et al, 2021:20).

On the other hand, the current rapid economic development is accompanied by many new companies that use systems that can process, analyze, and produce data that can be used to make decisions. A system was created to collect and organize all data from various levels of the company, summarizing, then facilitating and improving the quality of decision-making to increase the productivity and profitability of a company.

The development of information and communication technology has spurred a digital transformation that has changed the industrial order (Fukuyama, 2018). This wave of transformation is one element of the creation of new industrial frameworks and policies, such as the concept of the Industrial Revolution 4.0, the Internet Industry, and Made in China 2025. The sophistication of the Internet of Things (IoT), Artificial Intelligence (AI), and

robotics in the industrial sector has brought significant changes to society. In the concept of Society 5.0, the industry is one of the sectors that are required to continue to innovate because of the growing development of information and communication technology or digitalization (Fukuyama, 2018). And innovation is also needed so that the industry is able to penetrate the global market and contribute to economic development (Kerr & Cawley, 2009).

Society 5.0 is a concept that implements technology in the Industrial Revolution 4.0 by considering the humanities aspect so that it can solve various social problems and create sustainability (Fukuyama, 2018). If Industry 4.0 places technology only as a machine or tool to access information, then Society 5.0 emphasizes that technology and its functions have become part of human life (Ellitan, 2020).

With Society 5.0, many companies are racing to develop technology as a tool or medium to survive and win the competition. With the help of technology in doing business. Even with technology, companies can generate targeted revenue even more. One company that utilizes technology is PT. Agni Manggala Nusa is a distributor of car/building window film in Indonesia that markets throughout Indonesia.

PT. Agni Manggala Nusa since 2020 is one of the companies affected by the covid-19 pandemic, with the management of PT. Agni Manggala Nusa changed the market system which initially only sold products to partners spread across Indonesia, and currently PT. Agni Manggala Nusa opens outlets that will be spread throughout Indonesia.

Therefore PT. Agni Manggala Nusa has problems in the Sales, Expenditure and Stock processes, therefore the company needs a system that can integrate the entire work process of the outlet, especially in the delivery of costs.

LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

Cost

The cost might be characterized as the money-related worth, everything being equal, made to accomplish a goal for example to create labor and products. Cost is very significant in business dynamics. Cost of creation gives the floor to estimating. It assists the supervisor with taking the right choice, like what cost to statement if to put specifically request for inputs whether to forsake or add an item to the current product offering, etc.

Customarily, cost alludes to the cash costs brought about by a firm in the creation process. Cost additionally included ascribed worth of the business visionary's assets also, administrations, just as pay off the proprietor director.

Cost data is likewise utilized for arranging and control. It should help chiefs choose what ought to be done, why it ought to be done, how it ought to be done, and how well it is being finished (Hansen et al,2009).

Integration

In general, the notion of integration includes many different or interrelated activities, with integration being combined into one system that processes, and sustains one another. Meanwhile, according to (Suhady 2006), "Social integration is interpreted as a process of adjustment between different elements in people's lives so as to produce patterns of community life that have harmonious functions". The term national integration comes from two words, namely integration and national.



Figure 1. System Integration

Further, the integration of information systems for a **company** is **more** necessary than ever **before** because there are dozens or hundreds of individual applications, which means high costs and a lot of time to adapt information (Litan et. al, n.d). Its mean that **the management information system is a computer-based flow processing technique** integrated with other **techniques** to provide information in a timely and effective manner to **aid in decision-making** and other management functions. In other words, Information system integration aims to facilitate the exchange of information within an organization (Y.Yusuf, 2004).

What is 5.0 era?

In early January 2019, new ideas have circulated from Japanese civilization. That is 5.0. Presented at The World Economic Forum 2019 in Davos, Switzerland. This idea popped up for the response to the Industrial 4.0 as a significant technological and developments, but the role of the community is very important considerations for the industrial revolution this 4.0. Society 5.0 offers society human-centered that makes a balance between economic progress and solving social problems through the system very connecting through the world virtual and real world.

Hence, if society 4.0 supports us to access also share information on the Internet. Society 5.0 is an era where all technology is part of humanity itself. The Internet is not only a piece of information but to live life. Until the development technology can minimize care about people and problems economy at a later date (Puspita et al, 2020).

In conclusion, 5.0 era will have an iterative cycle in which data is collected, analyzed, and then turned into meaningful information that is then applied in the real world, furthermore, this cycle works at the level of society as a whole (Deghuci et al, 2020).

METHODS

The type of research that authors used is descriptive research, namely the type of research whose findings are not obtained through procedures statistics, or other forms of computation but research based on facts or phenomena encountered in the research field.

Authors conducted research with studies descriptive because it is in accordance with the nature of the problem and the research objectives want to get. Descriptive is a method that aims to describe or provide an overview of an object of research that is examined through samples or data that have been collect and draw general conclusions (Sugiyono, 2015). To obtain data that is needed as material for discussion in this paper and the collection of data with field research the author uses three methods, namely:

1. Sampling and investigation, namely by asking for samples to documents used by the company concerned with researched problem.
2. Observation, namely making observations directly at the location research on the object to be studied and discussed as well as collect as much data or information as possible related to the problem to be studied.
3. Interview, namely by asking several questions that related to the topics discussed to the parties concerned.

RESULT AND DISCUSSION

Reporting is currently still manual and requires time and money starting from sending documents or files via expedition services to the head office finance team, expedition services take several days so that documents that have been sent can be received by the finance team, if the finance team has received the documents then the team finance will

input sales data which will then be presented in the form of a report which will be submitted to the director. The current process that is still running can be seen in Figure 2:

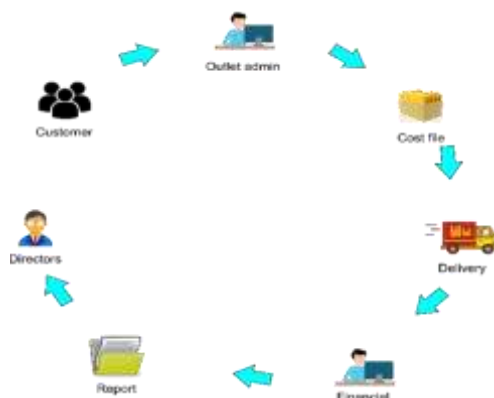


Figure 2. Current Flow

From the integration process that is still running today, it can be seen that the company requires a lot of money, in this case, the expedition fee is only to process data. In addition, the more relevant data needed in managerial activities, the company is required to have an integrated system that can provide information or data quickly, precisely, and can be accessed anytime and anywhere.

From the above background coupled with the current Covid-19 pandemic conditions, companies are required to stay afloat to generate profitability by reducing costs by simplifying manual work processes towards an integrated system. With the basic concept of Cost integration, how can a system connect each outlet to the same server and connect to the internet. This is very useful when applied by companies to speed up providing accurate information.

This cost integration scheme describes the expected system and emphasizes the process to simplify and speed up the activities of each outlet to make reports that will be received by the head office which is connected to the system. So this cost integration system is being developed and will be implemented in the future according to Figure 3 below.

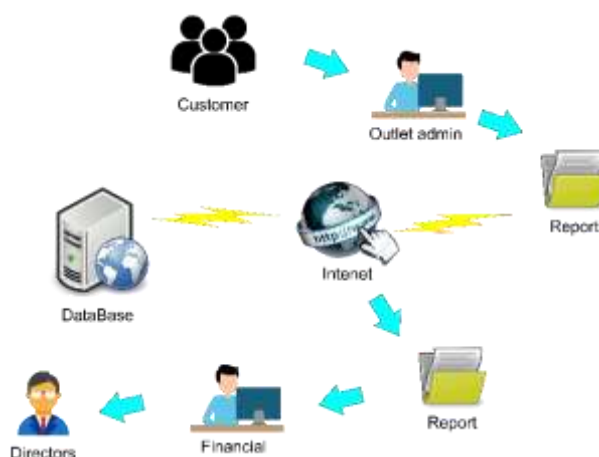


Figure 3. Integration Cost

At the analysis stage, it can be interpreted using a Use Case diagram. The use case diagram is a functional description that is expected from a system, what is emphasized from this use case diagram is what the system does, and not "how" a Use Case represents an interaction between actors and the system. The actors in this cost integration are Outlet, Financial, Directors, as shown in Figure 4:

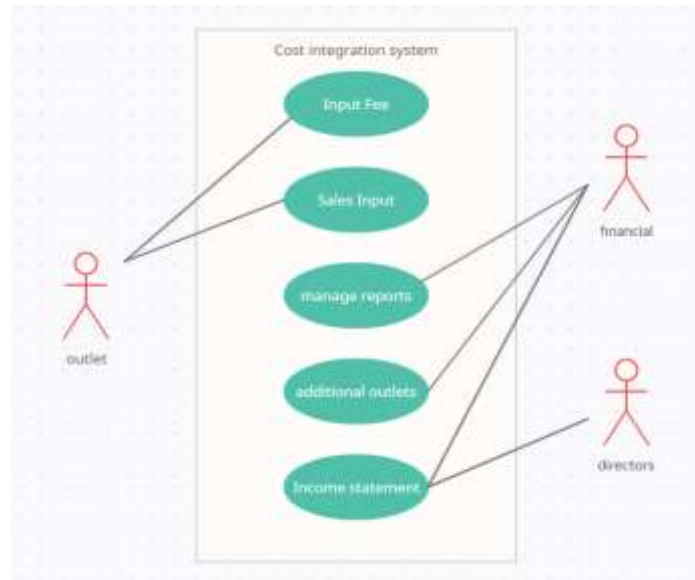


Figure 4. Use Case Integration Cost

With a Cost Integration Management System, the company can make it easier to carry out work processes, cost efficiency, and save time in processing data and generating the required company data. In addition, with the rapid development of information systems and increasing competition from competitors, companies participate in adapting in the era of society 5.0, society 5.0 can be said to be the integration of virtual and physical space so that everything becomes easy with artificial intelligence. This can minimize the gap in mindset and technological orientation of each workforce so that they can have integrity between humans and technology later.

CONCLUSIONS

Based on the results of the explanation above, PT Agni Manggala Nusa made a cost integration system. This system was created to help simplify the cost reporting process for each outlet and head office. This cost integration system helps in inputting every sales transaction, costs, and income statement per outlet. In addition, interested parties can access and view reports in real-time, and can be viewed anywhere.

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