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Implementation of Supply Chain Management Using ERP Odoo (Case Study of PT Mas Arya Indonesia)

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Abstract

The rapid development of technology, companies are expected to be able to make good use of technology so that business activities can run effectively and efficiently. Handling the production process which was originally carried out manually is slowly being replaced by machines that help manage data in a computerized manner. The use of the system helps companies in terms of human resources, finance, and product management. One of the activities that cannot be separated from production activities is inventory management. Entrepreneurs can use a variety of applications to help manage inventory. The ERP application with the Odoo system is one of the applications available for companies, from managing suppliers of raw material suppliers to calculating the total costs to be paid automatically. The case study in this research is the use of the Odoo application to assist the production process and count stock inventory of PT Mas Arya Indonesia, which operates in the garments sector.

Keywords: Supply Chain Management, Manufacturing System, Inventory System, Enterprise Resource Planning (ERP), Odoo

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INTRODUCTION

ERP, stands for Enterprise Resource Planning, is a software that enables companies and their suppliers to manage their business effectively and efficiently in each cycle (AboAbdo, Aldhoiena, & Al-Amrib, 2019). ERP works with various technologies, including the Internet of Things (IoT) (Tavana, Hajipour, & Oveisi, 2020). ERP systems are computer-based systems designed to process transactions within an organization and facilitate integrated planning. Especially now, advances in information technology play an important role in the continuity of a business. With the development of information technology like this, business people will not find it difficult to control all their business activities from production to sales, because all activities can be integrated in one system with this ERP system example.

ERP can replace all software in finance, HR, inventory, planning, etc. This software is divided into modules for each field. Each module can function independently but still connected with other modules to exchange information and data. Each company consists of several departments, such as logistics, finance, order fulfillment, and production. Where in each of these departments it has a heterogeneous nature because it produces different information according to the job and function. By linking all departments, the functions of each different department can be connected to each other. This allows the information needed by managers to be fulfilled, so that managers can read the company's operating conditions and can make more informed decisions in real time. The ultimate goal of ERP software is to provide a flexible means that has more data sharing capabilities for business information in an effective and flexible manner. It also allows for increased efficiency and lower costs.

One of the ERP software that can be used is ODOO (On-Demand Open Object). human resources, sales, accounting, billing, inventory, manufacturing, project management, customer relationship management and e-commerce CSM (Yaseen et al., 2020). In addition, Odoo has three functions, namely control, inspection and warning functions (Ahmadiyah, Ratna, Yotifa, & Dinillah, 2021) which can help entrepreneurs manage their company. When entering the odoo system, various features can be used by entrepreneurs in diverting company activities to a digitization system using a computer. One of the features provided is Inventory and MRP which includes Inventory, Manufacturing, Purchase, Maintenance and Quality services. This research will discuss the use of Manufacturing and Inventory features with application to the manufacturing company PT Mas Arya Indonesia. PT Mas Arya Indonesia is an international private company engaged in the garment industry which produces Sportswear and Underwear on a large

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international trade scale. Purpose of this research is (1) The existence of this ERP system that has been integrated into other companies as a comparison to an internal system that is only used internally by PT Mas Arya Indonesia; (2) Help make it easier to check the production of PT Mas Arya Indonesia's products with the ERP system; (3) Helps inventory checking of PT Mas Arya Indonesia's product stock with the ERP system.

ERP ODOO

Odoo provides various menu that can be used to run a business in one application, these menus include:

1. Sales
   Odoo functions to carry out sales transactions, this activity starts from offering products, viewing orders that are ready to be invoiced to orders that have been sent (Nurkhafidoh, Ariyani, & Munif, 2020).
2. Purchase
   Purchase on odoo functions to purchase goods or activities related to the procurement of goods. There are several submenus in Purchase:
3. Request for Quotation
   Request for quotation contains goods data, goods purchasing data and supplier data. From these data, the process of making a draft purchase order is carried out as a request for a price quote to carry out the purchasing process at the supplier.
4. Purchase Order
   The purchase order menu is used to make purchases of goods, there are 3 sub-menus in it, namely requests for quotations, purchase orders and suppliers. Operation of purchase orders through requests for quotations to process data on requests for goods from suppliers which are then processed and generate purchase orders.
5. Products and product variants
   Products contains a list of products from suppliers as suppliers of goods to be sold. While product variants are attributes, product categories (color, taste, size, etc.) which are the details of the product.
6. Incoming products
   List of orders for goods that have been ordered to suppliers but are still on the way of delivering goods to the Warehouse.

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7. Vendor Bills
   This submenu is used to control and create invoices from suppliers and view product purchase invoices.
8. Inventory
   In Inventory, it functions to manage and create new warehouses or Warehouses. There are several submenus from the inventory menu, including: Inventory adjustments, Inventory reports, warehouse analysis, inventory valuation, and others.
9. Manufacturing
   The function of menu manufacturing is to provide effectiveness and efficiency in the production process so that the resulting product performs optimally. Manufacturing on odoo helps companies manage all manufacturing activities. There are 4 submenus on the manufacturing menu including:
   a. Manufacturing Order, contains the order classification of the needs of goods to be produced by the company.
   b. Planning, contains the date of scheduling booking activities
   c. Products, contains a format that functions to input product information
   d. Bills of Materials (BoM), contains a list of raw materials along with the amount of materials needed to produce goods and their components

SUPPLY CHAIN MANAGEMENT

` A Supply chain consists of the flow of products and services from Raw materials manufactures, component and intermediate manufacturers, final product manufacturers, wholesalers and distributors and Retailers. SCM integrated through information, material, and financial flows. Supply chain management is concerned with the efficient integration of suppliers, factories, warehouses and stores so that merchandise is produced and distributed (The Right Quantities, The Right Locations, and The Right time) in order to minimize total system cost and satisfy customer service requirements.

MATERIALS AND METHODS

` This research is used to study ERP using Odoo as a research method and system in the manufacturing process at PT Mas Arya Indonesia. The data analysis stage that is applied is to analyze the creation of business process proposals using Odoo, so that it is expected to facilitate

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activities related to data or information in the production process, produce and manage PT Mas Arya Indonesia's warehouse, then carry out tests to determine the feasibility of the Odoo system. If the system is feasible, it will be followed by making conclusions. Otherwise, the test will be repeated in the Odoo app. The Odoo system is used for the manufacturing process with the following steps:

1. Vendor Creation

   Vendors or suppliers are companies that sell raw materials to be produced by other companies, so vendors can be referred to as producers or distributors. The step to input vendors using the Odoo system is to first find vendors who sell raw materials that match products from PT Mas Arya Indonesia, then input the vendor's company data profile through the Purchase - Orders - Vendors menu.
2. Create Vendor Price Lists

   Create a vendor price list comes from the price of raw materials sold by vendors, so the company first determines the raw materials from the selected vendors with the total items to be purchased. The steps to input a vendor price list using the Odoo system are via the Purchase - Configuration - Vendor Price List menu.
3. Making Warehouse (Warehouse)

   Warehouse or warehouse is a place that is used to store production goods and raw materials from products that aim to determine the condition of an item and can simplify data from the item. To create a warehouse using the Odoo system, first determine the name of the warehouse for the company PT Mas Arya Indonesia, then input the name through the Inventory - Configurations - Warehouse menu.
4. Ordering Raw Materials from Vendors

   Predetermined raw material goods and their vendors, the next step is to order these raw materials through the Odoo system which aims as information and data that has ordered raw materials through vendors along with the time and date when the goods were ordered. In addition, to notify vendors regarding information on raw materials purchased along with the time and date offered where they will be sent regarding the order in the form of a request for a quote. Ordering Raw Materials from Vendors is input using the Odoo system via the Purchase - Request for Quotation menu.
5. Confirmation of Raw Material Goods from Vendors Has Arrived

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Confirmation of raw material goods is carried out when the goods have arrived at the PT Mas Arya Indonesia company warehouse. This is also intended as information and data where the goods have arrived along with the date and time. Confirm raw material items using the Odoo system through the Inventory – Overview – Receipts menu.

6. Inputting Raw Materials (BoM)

   Raw materials (BoM) will be input after the raw materials and prices have been determined. Input raw materials (BoM) aims to determine the cost of production by the system. In addition, the input of these raw materials contains information about whether they can be resold or not. Input of raw materials (BoM) using the Odoo system is via the Manufacturing - Product - Bill of Materials menu.

7. Carry out the Process of Production of Goods

   Raw materials have been determined, purchased and then inputted into the Odoo system, so the next step is to process the production of goods where previously the information or data was input into the Odoo system via the Manufacturing - Manufacturing Orders menu.

8. Determining Production Costs Through the Odoo System

   Determining Production Costs is carried out after the price of the raw material (BoM) and the selling price of the desired product. It aims to determine the cost or capital predicted by the system. Production costs are determined by the Odoo system through the Manufacturing - Product - Compute Price from BoM menu.

9. Make payments for raw materials from vendors

   Making payments for raw materials from vendors using the Odoo system is via the Purchase - Purchase Orders menu. After the payment is made, the system will provide a payment invoice.

DISCUSSION

The garment business process at PT Mas Arya Indonesia runs using modern technology machines. The Odoo process provided includes sales, invoicing, manufacturing, purchasing, and inventory modules. The Odoo website is used to assist in managing the manufacturing process from ordering materials to payment. The manufacturing module generates a BoM (Bill of Materials) or a list of materials used in making products. The purchasing module is used to carry out procurement automatically when it is raw when the material stock has reached a minimum

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limit. Purchase order validation is a document that contains a list of materials purchased from vendors providing production raw materials followed by drafting vendor bills that are validated by the accountant in the invoice module. The seller will receive a purchase order and a receipt. In the inventory module, you can see stock, shipping, order data, and validation when goods are sent to customers.

Figure 1. Odoo Manufacturing Process Flowchart

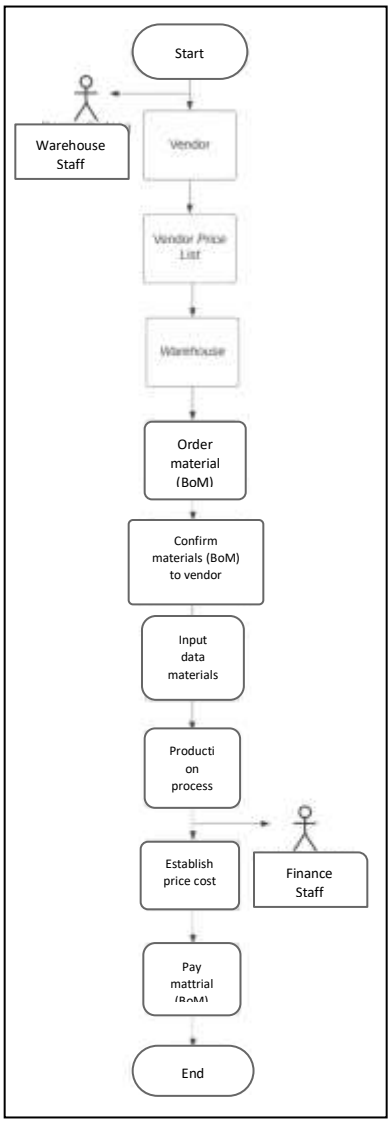
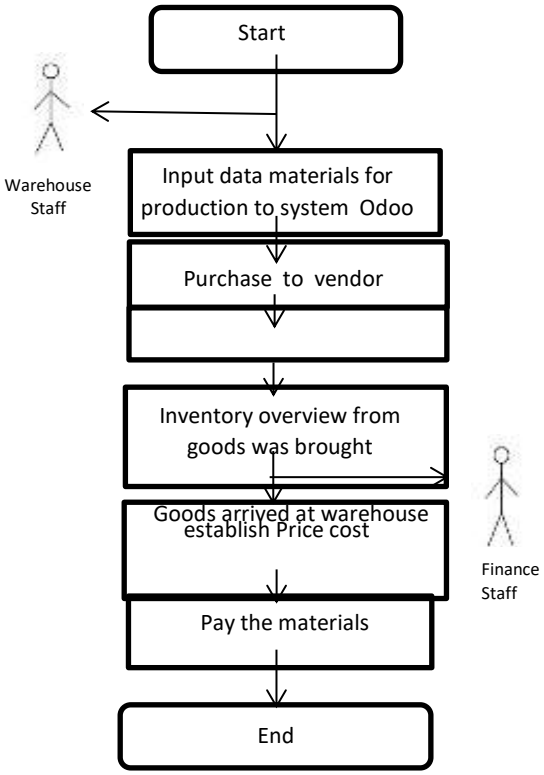


Figure 2. Odoo Inventory Process Flowchart



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Procedure:

1. Create Vendor

Vendor Is a company that supplies raw materials needed in the manufacture of products. One of the vendors used is PT Berkain which supplies Garment products



Figure 3. Create Vendor

2. Vendor Pricelist



Figure 4. Vendor Pricelist

The vendor price list contains information on raw material data purchased, price, quantity, and the origin of the goods supply company. In this case the vendor price list is made with the vendor PT Berkain.

3. Create Warehouse

Warehouses are used to confirm raw materials are stored or transit places before goods are shipped.



Figure 4. Create Warehouse

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4. Ordering Raw Materials from Vendors

Purchasing raw materials from vendors will create a Bill of Materials which contains the name of the materials purchased and the amount to be paid.

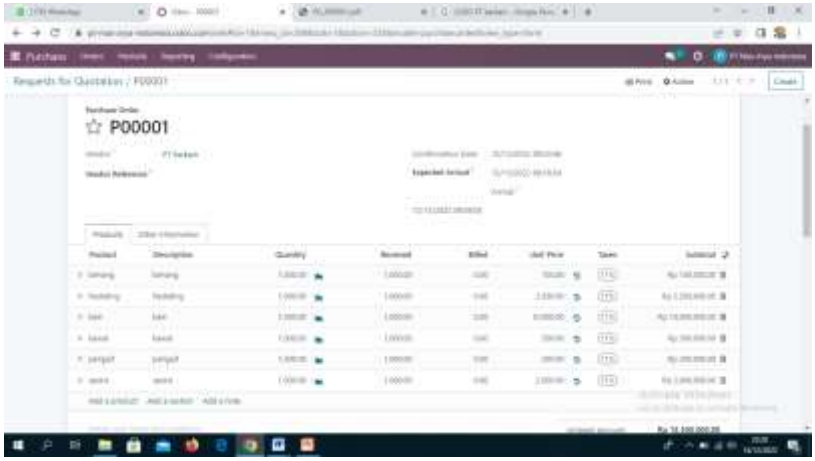


Figure 5. Ordering Raw Materials From

5. Confirmation of Raw Material

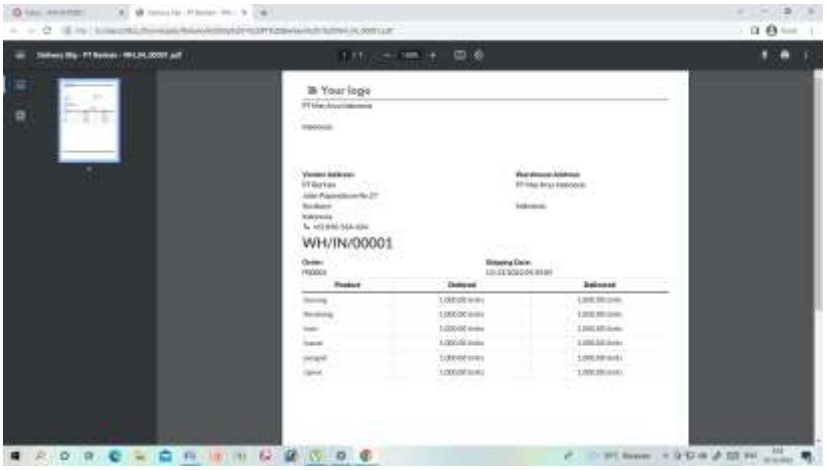


Figure 6. Confirmation of Raw Material Goods

Raw materials have been confirmed after the goods are received at the warehouse from the vendor.

6. Update Stock (Stock On hand)

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On the inventory menu related to raw materials (BoM) will automatically increase according to what is input from raw material items ordered through vendors. Raw materials that have arrived must be inputted so that the status on hand increases so that the quantity of inventory can be known clearly.

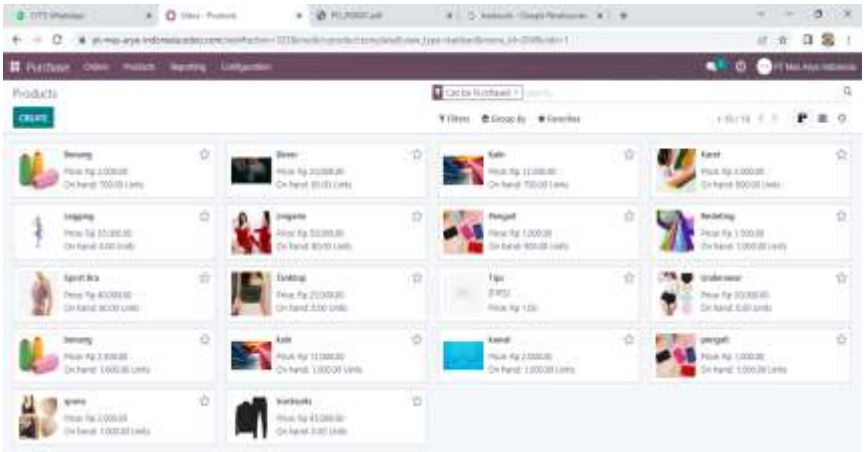


Figure 7. Stock On Hand

7. Inputing Bill of Materials (BOM)

Table 2. Product Classification

Product	Material	Quantity
Sport Bra	- Spons Bra - Hook - Cloth - Rubber Bra - Thread - Bra Wire	100 unit

8. The Process of Production of Goods

The production process starts from planning the manufacture of the product until the required raw materials have arrived. Inventory of raw materials for the production process adjusted to avoid the amount of inventory does not exceed capacity or is abandoned.

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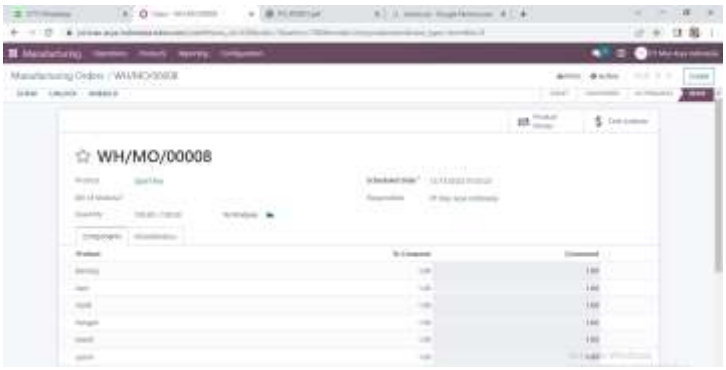


Figure 8. Production of 100 pcs sport bra

After inputting the product, the product inventory menu will automatically increase according to what is input.



Figure 9. Stock On Hand Update

9. Determining Production Costs Through the Odoo System

The Odoo system assists entrepreneurs in determining the total production costs needed to make an item. With the cost results that have been calculated automatically by the system, it can minimize errors in calculating costs.

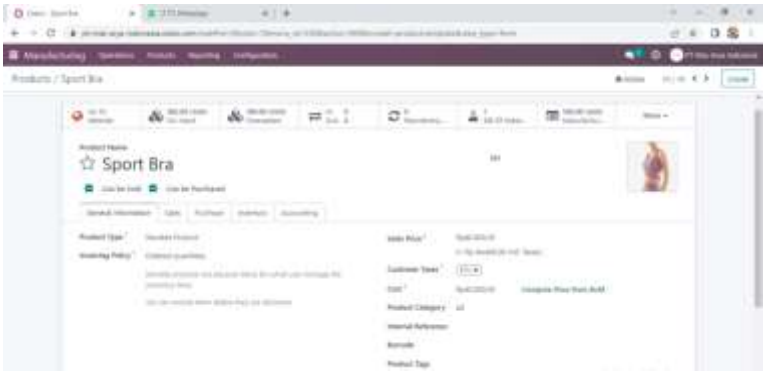


Figure 10. Production Cost Results

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10. Make payments for raw materials from vendors

    Pay raw material bills to suppliers or vendors.

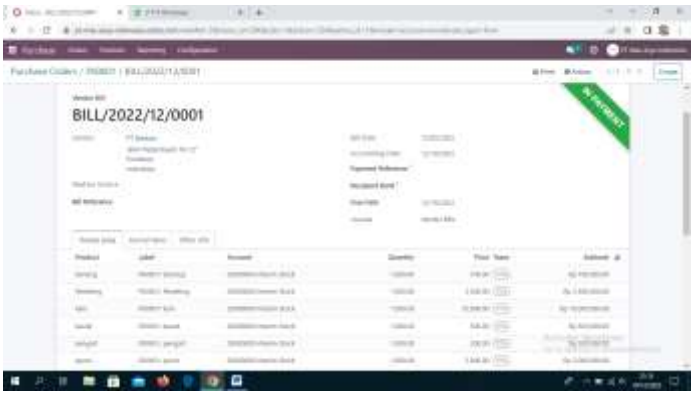


Figure 11. Payment of Raw Materials from Vendors

Inventory

The Following shows PT Mas Arya's Warehouse, products, and stock in Inventory.

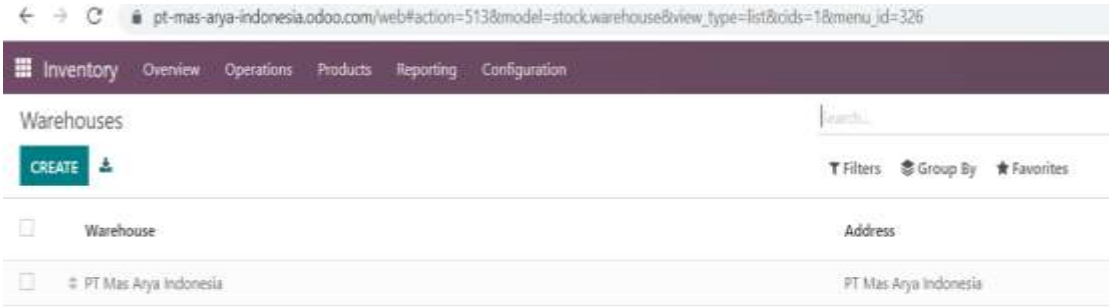


Figure 12. PT Mas Arya Indonesia Warehouse

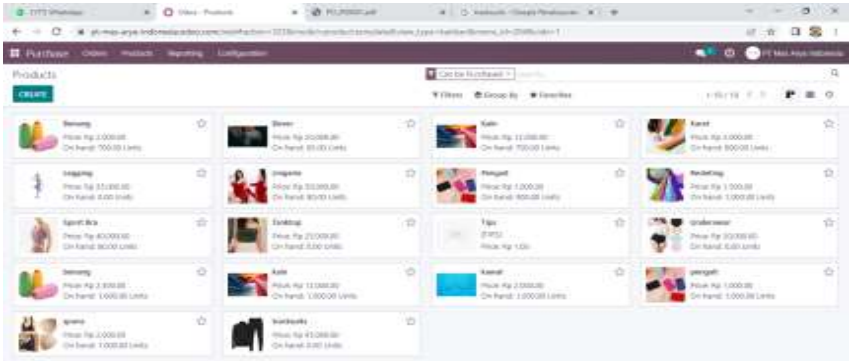


Figure 13. All Products

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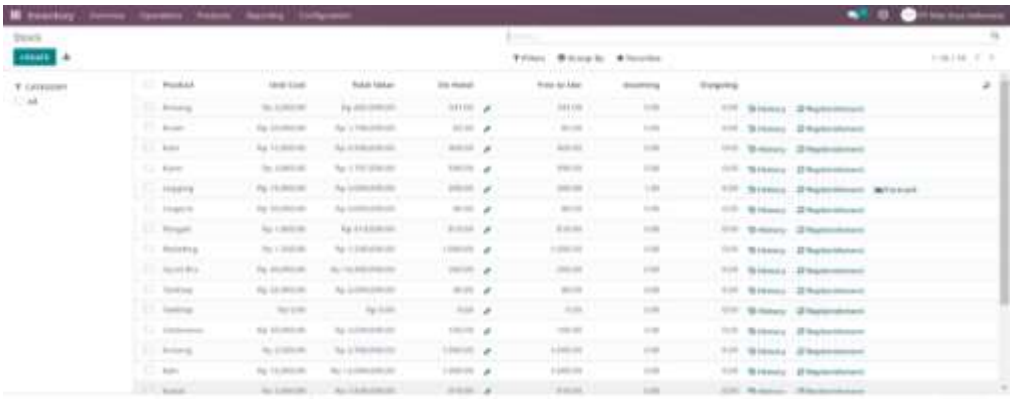


Figure 14. Stock on Hand in Inventory

Business Process Reengineering

Business processes at the company PT Mas Arya Indonesia, namely analyzing the business processes of PT Mas Arya Indonesia. The following is a business process at PT Mas Arya Indonesia After implementation of SCM and ERP:

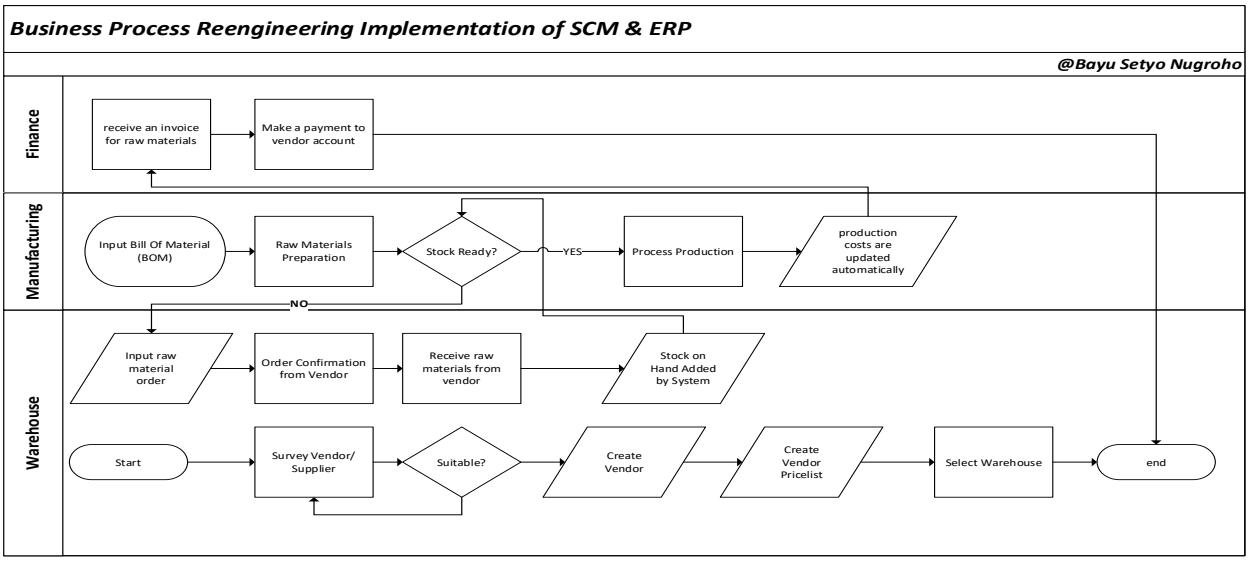


Figure 15. Business Process Reengineering Implementation of SCM & ERP

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The system design process that is implemented is based on an approach to the Kaizen concept or continuous improvement to achieve company needs/goals (Nugroho, Purnamasari, et al., 2022b, 2022a; Sugiyanta et al., 2023). In the manufacturing system that is carried out with the internal development system, the warehouse department conducts field surveys to find vendors that are suitable for the product to be made when it is suitable, the warehouse section makes a price list of raw materials from vendors that must be recorded and stored while in the ERP manufacturing system Odoo for the warehouse section simply searches for a vendor through a legal company website then inputs a price list on Odoo. Comparison in making company warehouse names, on the Odoo system it can be directly inputted while Internal development needs to record on the internal system. Comparison when purchasing raw materials order, the internal development system first makes a request for a quote but for the Odoo system what needs to be done is to input the raw materials which contain data information such as date, quantity and so on where after input it will automatically bring up a request for a quote (Request for Quotation) and sent directly to the vendor's email. When raw materials are received, the Odoo system will change the delivery process status to done while the internal development system must create a confirmation letter. The raw materials received will be directly placed into the warehouse where the internal development system has the same input in the internal system and the Odoo system also needs to be input. In the production process, the internal development system carries out planning with an internal digitization system that can directly control production activities, while the Odoo system only inputs data. In determining costs, the financial section of the internal development system is systemized with an internal digitalization system, but for the Odoo system it is systemized directly from Odoo. This process is able to provide an overview of the use of financial technology in supporting the achievement of improvements in financial management in companies/organizations (Amaliyah & Nugroho, 2022). Apart from that, payment for raw materials is the same as when purchasing raw materials, where the internal development system sends payment letters that are automatic and ready to send while the Odoo system inputs payment data which then automatically generates bills. From the comparison of the two systems, it can be concluded that the Odoo system helps manufacturing business processes become more flexible and the system is all done by a computer. Implementation of Manufacture, Purchase and inventory management as the implementation of Supply Chain Management is a strategic step for PT Mas Arya Indonesia to produce innovation improvements

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in business processes so that it will have an impact on improving company performance (Nugroho, 2021; Nugroho, Utami, et al., 2022; Utami et al., 2022).

Gap Analysis

GAP analysis is a method used to compare current business processes (AS IS or existing business processes) with the business processes needed to achieve the goals to be achieved by the company/organization (Nugroho et al., 2023). In this study, the author adjusted the GAP analysis according to needs, namely to find out how much Odoo's Enterprise Resource Planning (ERP) system was able to meet the needs that UD Multisnack wanted to achieve. GAP analysis uses the NPF method, namely **(1) N (No fit)** means that the system cannot meet the needs; **(2) P (Partial)** means that the system can meet the needs, but only partially; **(3) F (Full)** means that the system can meet the needs.

Table 3. Manufacturing Business Process GAP Analysis

No.	Business Process	Needs	Fulfillment			Description	
			N	P	F	Internal System	ERP Odoo System
1.	Create Vendor Data	- Vendors have detailed information			√	- Vendor list recording is done using an internal system	- Vendor data input is faster and more practical using the odoo ERP system
2.	Create Vendor Price List	- A system that can directly connect the Company with Vendors - Product, Product price, and delivery time required for each raw material purchase from a vendor can be confirmed by the connected vendor			√ √	- List companies one by one - Files are inputted in the system so it can't be accessed anywhere	- Systemized in the application so that it can be accessed anywhere - Systemized in the application so that it can be accessed anywhere

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No.	Business Process	Needs	Fulfillment			Description	
			N	P	F	Internal System	ERP Odoo System
3.	Create Warehouse	- Goods data recording - The system requests goods to the purchase menu - The warehouse system distributes and records the distribution to each section			√ √ √	- Recording of goods data using internal system forms - Send a request for goods via email - Record warehouse, inventory, and logistics transactions	- Create a form using Odoo to input item data - Create a request order form on Odoo - Create transaction data forms, purchase orders, quotations, invoices, and inventory
4.	Ordering Raw Materials from Vendors	- The supplier company has a clear address and product details - A system that can manage the calculation of purchase costs - Stock availability updates			√ √ √	- Make purchases by sending purchase requisitions to companies that are already working together - Calculation of purchase costs already using the internal system - Calculation of stock taking can be known by the internal system	- Vendors have detailed information - The calculation of the total payment is made by the system including the amount of tax - Stock taking can be known easily through the odoo ERP system

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No.	Business Process	Needs	Fulfillment			Description	
			N	P	F	Internal System	ERP Odoo System
5.	Confirmation of Raw Material Goods	- Letter of receipt of raw materials			√	- Letters of receipt of raw materials are made manually using Ms. Word is then sent through e-mail	- Confirmation forms for raw material items can be made through the Odoo system and automatically sent to the Vendor
6.	Input Bill of Material (BoM)	- The company has detailed information on raw materials and quantities needed for production			√	- Recording of raw materials (BoM) using system	- Automatically all data will be recorded
7.	Carry out the Process of Production of Goods	- The company can find out the production quantity as well as the list of materials needed			√	- Carry out systematic recording of the list of needs and production quantities	- There is a bill of materials that contains details of raw materials for production along with the quantity of materials
8.	Determining Production Costs	- Companies can find out the costs for carrying out a production			√	- Determine the cost for production with the calculation of the report finance	- Fees have been determined automatically through the integrated system
					√	- Calculation of costs using the internal system	- Cost determination by the system can be used as a cost reference for the company
9.	Make Payment for Raw Materials to Vendor	- The company makes an invoice for the purchase of raw materials			√	- Creating an invoice through the system is then sent via e-	- Input payment for raw materials using the Odoo system which can automatically generate

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No.	Business Process	Needs	Fulfillment			Description	
			N	P	F	Internal System	ERP Odoo System
						mail to the vendor	invoices and send them immediately on vendors
10	Checking the availability of goods	Actual product availability information			√	Checking the availability of goods at PT Mas Arya Indonesia has a complete and detailed automatic system.	On the Odoo website you can display products available at PT Mas Arya Indonesia. Product information includes name, brand, category, stock and price.
11	Update availability and stock of goods	Update the availability and stock of goods at PT MAS Arya Indonesia			√	The activity of updating information on availability data and stock of goods at PT Mas Arya Indonesia is automated	Odoo's integrated system can automatically update the availability and stock of goods produced by PT Mas Arya Indonesia. After the purchase transaction by the customer is complete, the Odoo system will adjust the availability and stock of goods.

Based on the GAP analysis conducted, it can be concluded that all ERP systems that will be implemented can fully meet the needs of PT Mas Arya Indonesia.

CONCLUSION

In this study, the Odoo system was used as an ERP application as a comparison between management using the internal development system and the Odoo system to manage PT Mas Arya Indonesia's inventory. The practical Odoo system can help companies manage inventory and make the garment production process more flexible. Starting from searching for vendors, ordering products, calculating the total costs to be paid and the method of payment. Even though the internal development system maintains better data security and minimal risk of being

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hacked, this system has not been integrated with other companies so that processes related to other companies are still in an unsystematic way.

Internal system development is more focused on the process of internal activities of the company PT Mas Arya Indonesia so that to connect to external companies this internal system does not function optimally. The manufacturing process with the internal development system is almost the same as the odoo ERP system, the difference is only looking for vendors outside the company, the rest of these two systems can work optimally. For the inventory system, PT Mas Arya Indonesia has used a digital system so that they know the stock of goods up to the warehouse stock. From this study it can be concluded that the odoo system is able to replace the internal system with packaging that is more practical and flexible.

Future Directions

The weakness of this research is that the implementation of Odoo is still in a simple form using free functions, so the company must upgrade the existing Odoo system for a long time. The simple examples implemented in this study have not been able to support the overall needs of manufacturing and inventory management applications, so further research is needed to address more complex problems related to the use of Odoo.

Further research can be carried out using paid Odoo so that it can solve more complex problems. More product will help process Odoo to be more developed and can assist entrepreneurs in managing inventory. Future research also needs to consider integration according to the development of the Pentahelix model, namely the Government, academia, business entities/actors, society or communities, and the media (Suroija, Asrori, & Nugroho, 2022; Suroija, Asrori, Nugroho, et al., 2022).

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