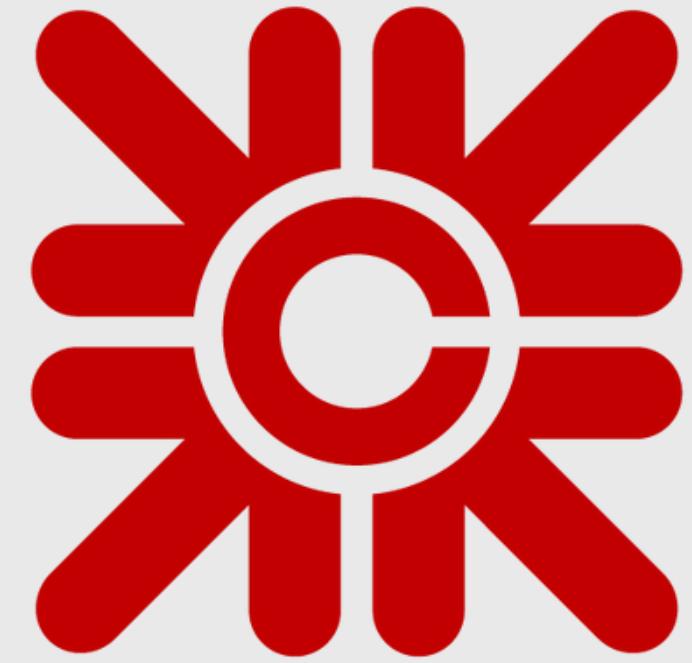


CENTRAL DEPARTMENT STORE

PROJECT PHASE 2
ITCS361 MANAGEMENT INFORMATION SYSTEMS



CENTRAL

Members

6388030	Kulawut	Makkamoltham
6388040	Ariya	Phengphon
6388113	Poomrapee	Wareeboutr
6388133	Pitchaya	Teerawongpairoj
6388196	Sasima	Srijanya

Present to

Assoc. Prof. Dr. Jarernsri L. Mitrpanont



Table Of Content

- **Introduction**
- **BPMN diagram of Buy and Sell**
- **Modified BPMN of Buy and Sell**
- **Odoo Screenshots**
- **Useful Reports**
- **Discussion, Conclusion**
- **Benefits of ERP to the Company**

Introduction

Company Profile

Central Group is one of Thailand's largest private commercial businesses, offering both online and offline services. It included investments in Robinson, Super Sports, Central Food Retail Group, CHG (Central Home Group), Power Buy, B2S, and many others.



Introduction

Key Business Processes

Retailers care about their **customers' lifestyles**, and **face-to-face interaction** with them is essential. Alerts for products with a short shelf life that are about to expire are common in retail workflows. **Typical workflows** include stock levels, inventory losses, repeat customer purchasing patterns, and automated reminders.



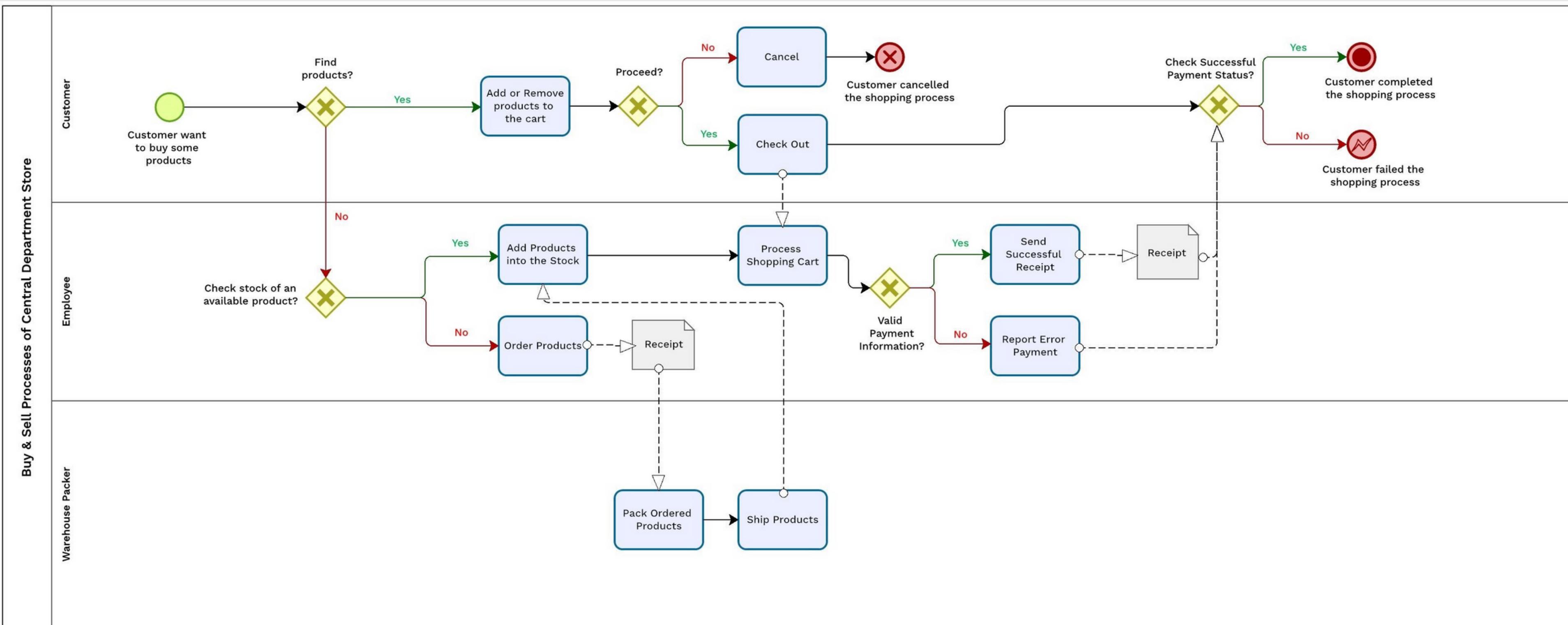
Introduction

Importance of ERP System

Central Group employs MIS and IT to **reduce operating costs, study consumer behavior, and enhance the customer experience**. For example, at the start of the Covid-19 pandemic, Central advertised its online platforms in response to a decrease in customers visiting the physical store.

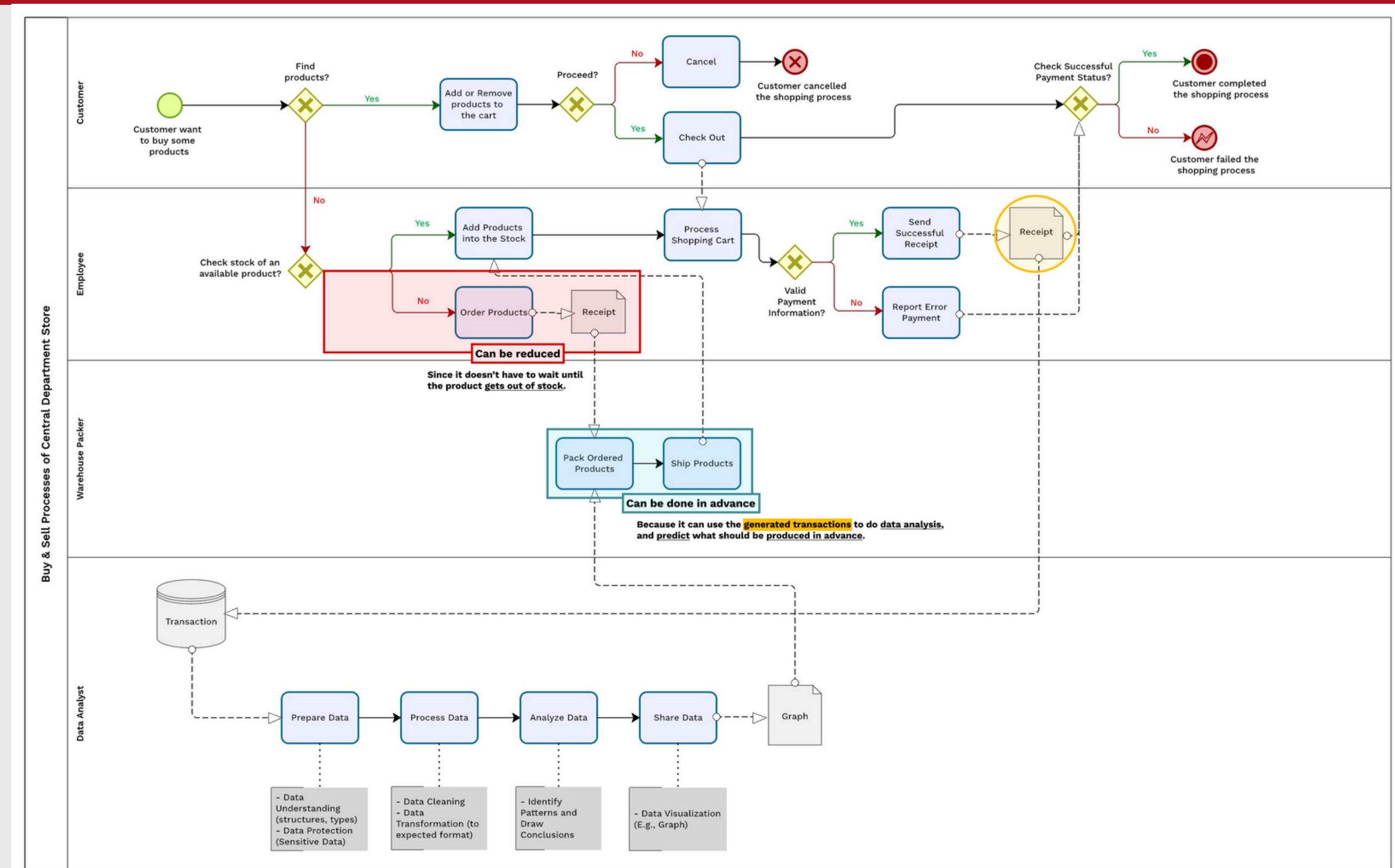


BPMN of Buy and Sell



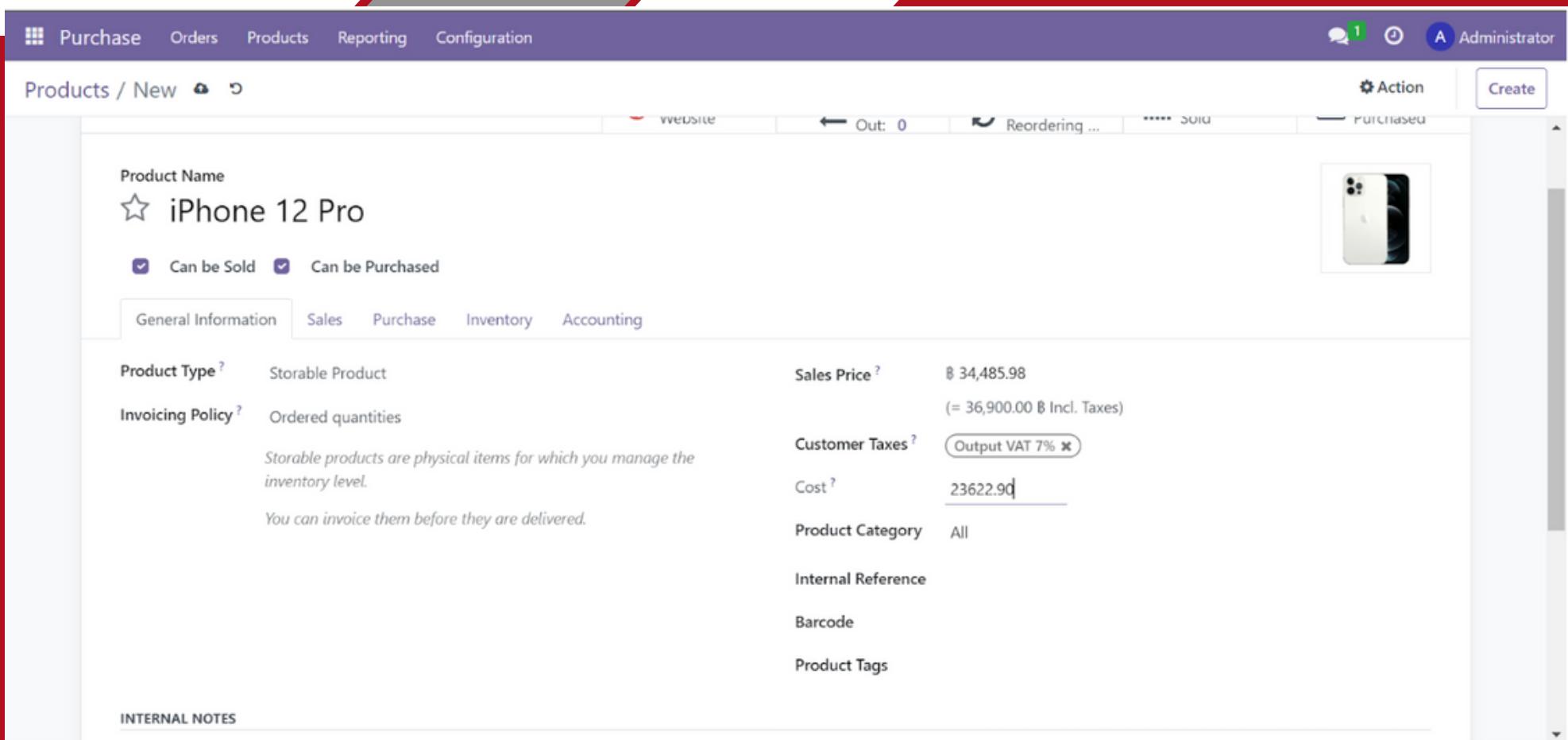
Modified BPMN of Buy and Sell

Sales Analysis

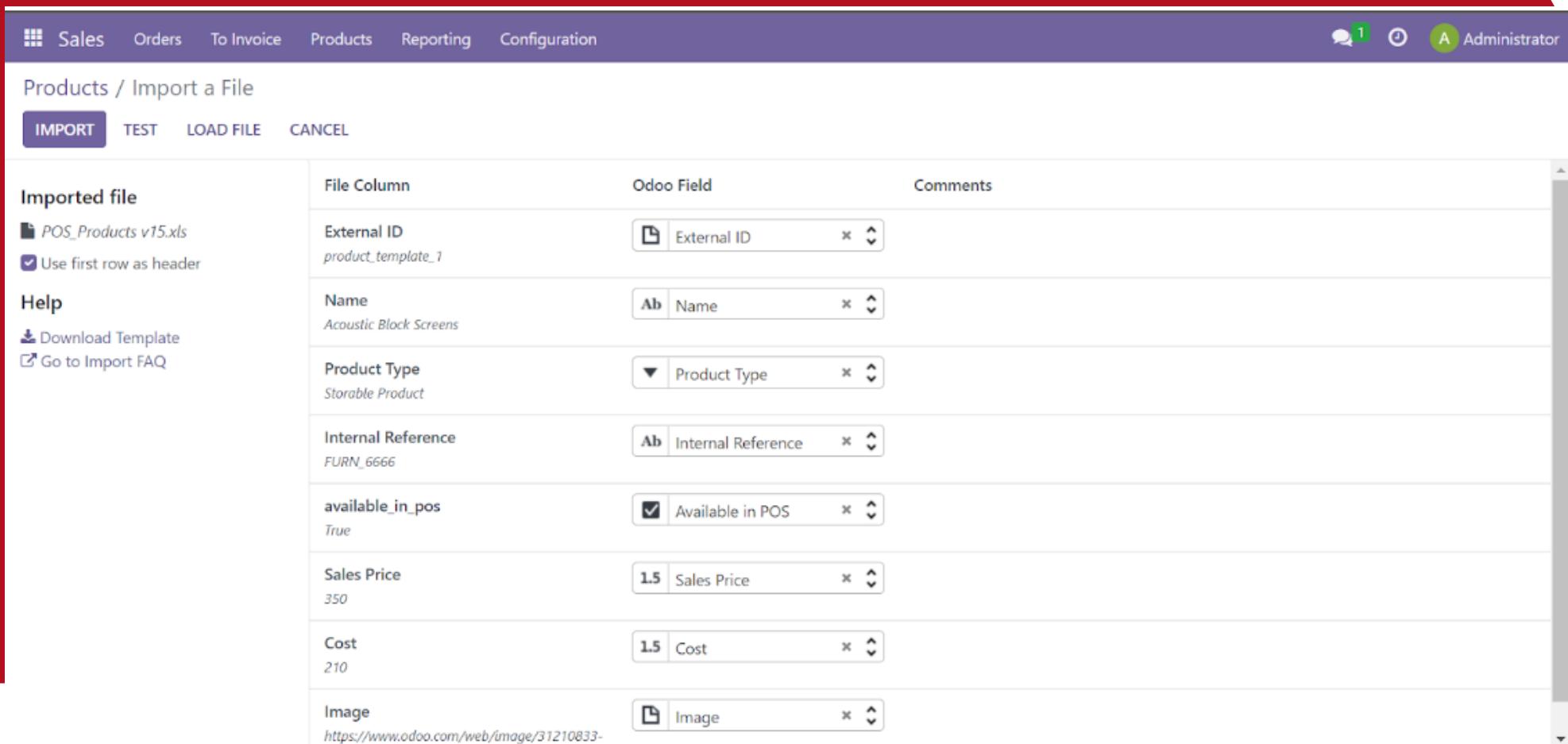


Software Modules





The screenshot shows the Odoo interface for creating a new product. The top navigation bar includes links for Purchase, Orders, Products, Reporting, and Configuration. The main title is "Products / New". The product name is "iPhone 12 Pro". Under "General Information", checkboxes for "Can be Sold" and "Can be Purchased" are checked. The "Product Type" is set to "Storable Product". The "Sales Price" is listed as 34,485.98 (incl. Taxes). The "Customer Taxes" is set to "Output VAT 7%". The "Cost" is 23622.90. The "Product Category" is "All". There is also an "Internal Reference" field. At the bottom, there is a section for "INTERNAL NOTES".



The screenshot shows the Odoo interface for importing product data from a file. The top navigation bar includes links for Sales, Orders, To Invoice, Products, Reporting, and Configuration. The main title is "Products / Import a File". The "Imported file" is "POS_Products v15.xls". The "File Column" and "Odoo Field" mapping is shown for several fields: External ID (product_template_1), Name (Name), Product Type (Product Type), Internal Reference (Internal Reference), available_in_pos (Available in POS), Sales Price (Sales Price), Cost (Cost), and Image (Image). The "Comments" column is empty. On the left, there is a "Help" section with links for "Download Template" and "Go to Import FAQ".

Odoo Screenshots

Create a Product

The user can either create a product(s) by either putting the data one by one or importing from a .csv or .xlsx file

Odoo Screenshots

Purchase an item(s)

The user can create a request on Quotation by going to Purchase => Orders => Request for quotation.

The screenshot shows the Odoo Purchase module's 'Request for Quotation' screen. At the top, it displays the navigation bar with 'Purchase', 'Orders', 'Products', 'Reporting', and 'Configuration'. Below that, it shows the specific request details: 'Requests for Quotation / P00001', 'Vendor' (Apple Inc.), 'Order Deadline' (11/13/2022 22:07:31), 'Expected Arrival' (11/15/2022 22:07:31), and a checkbox for 'Ask confirmation'. The main area is titled 'Request for Quotation' and shows the identifier 'P00001'. It includes tabs for 'Products' and 'Other Information'. The 'Products' tab displays a table with five rows of iPhone 12 Pro variants, each with a quantity of 1.00, unit price, taxes, and subtotal. The total for the products is 243,803.00. The VAT amount is 17,066.22, and the total amount is 260,869.22. The table has columns for Product, Description, Quantity, Unit Price, Taxes, and Subtotal.

Product	Description	Quantity	Unit Price	Taxes	Subtotal
iPhone 12 Pro (Silver, 128 GB)	iPhone 12 Pro (Silver, 128 GB)	2.00	22,750.00	(Input VAT 7%)	45,500.00 ₧
iPhone 12 Pro (Pacific Blue, 128 GB)	iPhone 12 Pro (Pacific Blue, 128 GB)	5.00	22,750.00	(Input VAT 7%)	113,750.00 ₧
iPhone 12 Pro (Silver, 256 GB)	iPhone 12 Pro (Silver, 256 GB)	1.00	27,276.50	(Input VAT 7%)	27,276.50 ₧
iPhone 12 Pro (Graphite, 512 GB)	iPhone 12 Pro (Graphite, 512 GB)	1.00	30,000.00	(Input VAT 7%)	30,000.00 ₧
iPhone 12 Pro (Gold, 256 GB)	iPhone 12 Pro (Gold, 256 GB)	1.00	27,276.50	(Input VAT 7%)	27,276.50 ₧

Define your terms and conditions ...

Untaxed Amount: 243,803.00 ₧
VAT 7%: 17,066.22 ₧
Total: 260,869.22 ₧

The screenshot shows the Odoo Purchase module's 'Requests for Quotation' screen. The top navigation bar includes 'Purchase', 'Orders', 'Products', 'Reporting', and 'Configuration'. The main title is 'Requests for Quotation / P00001 / WH/IN/00003'. Below the title are buttons for 'VALIDATE', 'CLEAR QUANTITIES', 'PRINT', 'PRINT LABELS', 'UNLOCK', and 'CANCEL'. A status bar at the top right shows '1 / 1' and 'Create'. The main content area displays a record for 'WH/IN/00003' with details: 'Receive From' Apple Inc., 'Scheduled Date' 11/15/2022 22:07:31, 'Deadline' 11/15/2022 22:07:31, and 'Source Document' P00001. The 'Operations' tab is selected, showing a table of received products:

Product	Demand	Done
iPhone 12 Pro (Silver, 128 GB)	2.00	2.00
iPhone 12 Pro (Silver, 256 GB)	1.00	1.00
iPhone 12 Pro (Graphite, 512 GB)	1.00	1.00
iPhone 12 Pro (Pacific Blue, 128 GB)	5.00	5.00
iPhone 12 Pro (Gold, 256 GB)	1.00	1.00
Add a line		

Odoo Screenshots

Receive a Product

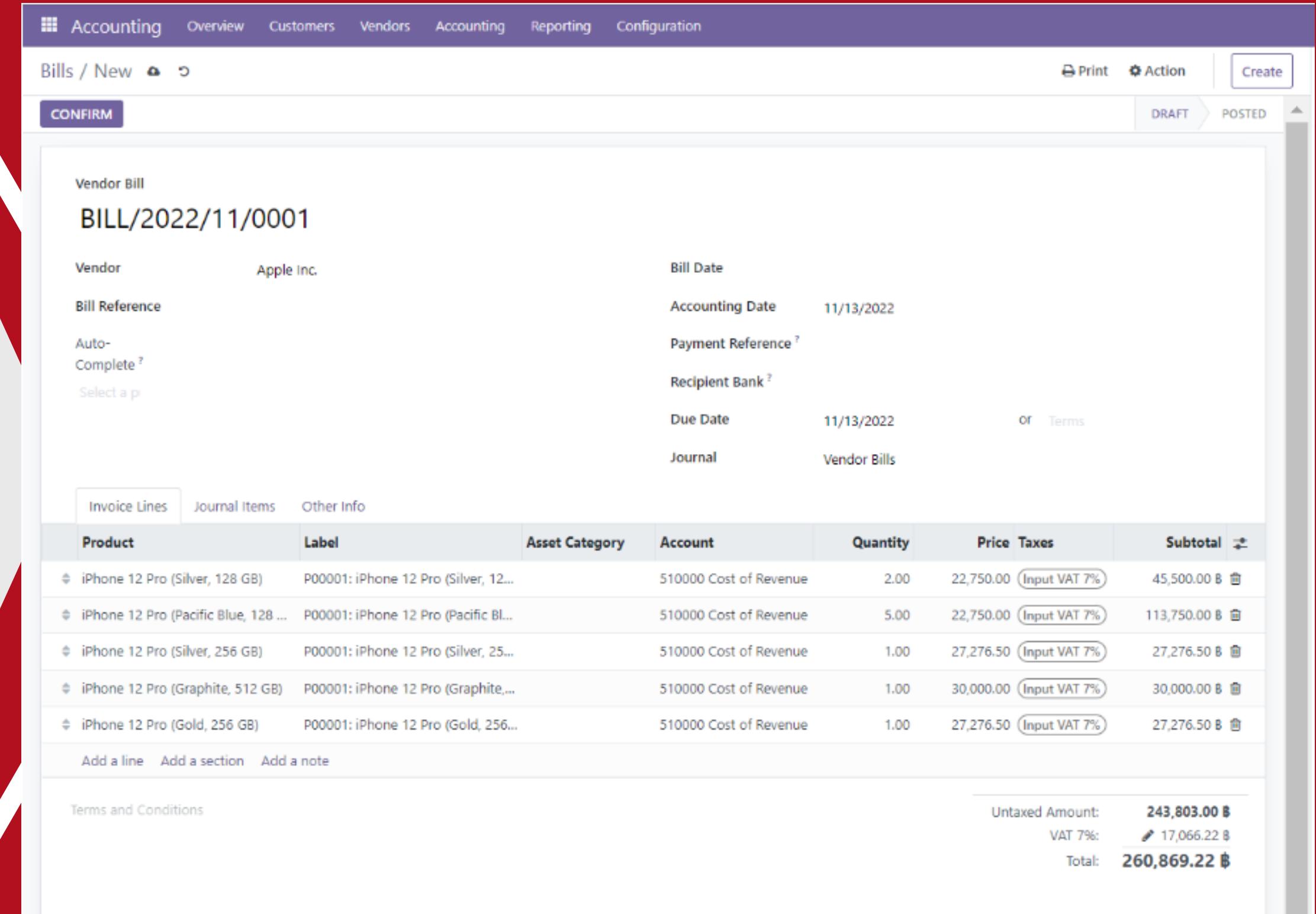
After a product arrives, the user can check and set the received quantity.

Then create the record.

Odoo Screenshots

Control the bill

The user can create, check and validate the bill. In addition, the user can set the due date to pay.



The screenshot shows the Odoo Accounting Bills interface. At the top, it displays 'Bills / New' and 'CONFIRM'. Below this, the vendor bill details are shown: Vendor is Apple Inc., Bill Reference is BILL/2022/11/0001, Auto-Complete? is selected, and the Due Date is 11/13/2022. The Accounting Date is 11/13/2022, Payment Reference is not specified, and the Journal is Vendor Bills. The table below lists the invoice lines:

Product	Label	Asset Category	Account	Quantity	Price	Taxes	Subtotal
iPhone 12 Pro (Silver, 128 GB)	P00001: iPhone 12 Pro (Silver, 12...		510000 Cost of Revenue	2.00	22,750.00	(Input VAT 7%)	45,500.00 ₧
iPhone 12 Pro (Pacific Blue, 128 ...	P00001: iPhone 12 Pro (Pacific Bl...		510000 Cost of Revenue	5.00	22,750.00	(Input VAT 7%)	113,750.00 ₧
iPhone 12 Pro (Silver, 256 GB)	P00001: iPhone 12 Pro (Silver, 25...		510000 Cost of Revenue	1.00	27,276.50	(Input VAT 7%)	27,276.50 ₧
iPhone 12 Pro (Graphite, 512 GB)	P00001: iPhone 12 Pro (Graphite,...		510000 Cost of Revenue	1.00	30,000.00	(Input VAT 7%)	30,000.00 ₧
iPhone 12 Pro (Gold, 256 GB)	P00001: iPhone 12 Pro (Gold, 256...		510000 Cost of Revenue	1.00	27,276.50	(Input VAT 7%)	27,276.50 ₧
Add a line		Add a section	Add a note				
Terms and Conditions				Untaxed Amount:	243,803.00 ₧	VAT 7%:	17,066.22 ₧
				Total:	260,869.22 ₧		

CENTRAL ☀

Odoo Screenshots

eCommerce

The screenshot shows a product listing page with a sidebar for filtering by category (All Products, Electronics, Kids) and price range (670.00 B to 36,900.00 B). The main area displays four products: a black backpack (BTS BUTTER X SR BACKPACK M BLACK+MINI CROSSBAG), an iPhone 12 Pro, a LEGO Star Wars Death Star™ Trash Compactor Diorama (75339 Muti Color), and a brown fluffy tiger plush toy (Fluffy Tiger (Animals set) L. HRTE106LBR Brown).

Shop

The screenshot shows a detailed product page for the "STAR WARS Death Star™ Trash Compactor Diorama 75339 Muti Color". It features a large image of the product box, the title, price (3,820.00 B), and an "ADD TO CART" button. Below the product information, there is a section for "Brand: Lego" and links for "Terms and Conditions", "30-day money-back guarantee", and "Shipping: 2-3 Business Days".

Product Detail

The screenshot shows the checkout process. The "Review Order" step displays two items: an iPhone 12 Pro (Silver, 256 GB) and an iPhone 12 Pro (Graphite, 512 GB). The "Address" step is shown below. The "Order Total" summary shows a subtotal of 86,700.00 B, taxes of 0.00 B, and a total of 86,700.00 B. Buttons for "Continue Shopping", "Process Checkout", and "I have a promo code" are present.

Checkout

The screenshot shows the payment step of the checkout process. It includes a "Pay with" section with a note about test mode, payment details (test data: XXXX XXXX XXXX XXXX), and a successful payment status. The "Address" and "Review Order" steps are also visible above the payment form. The "Order Total" summary at the bottom is identical to the one in the previous screenshot.

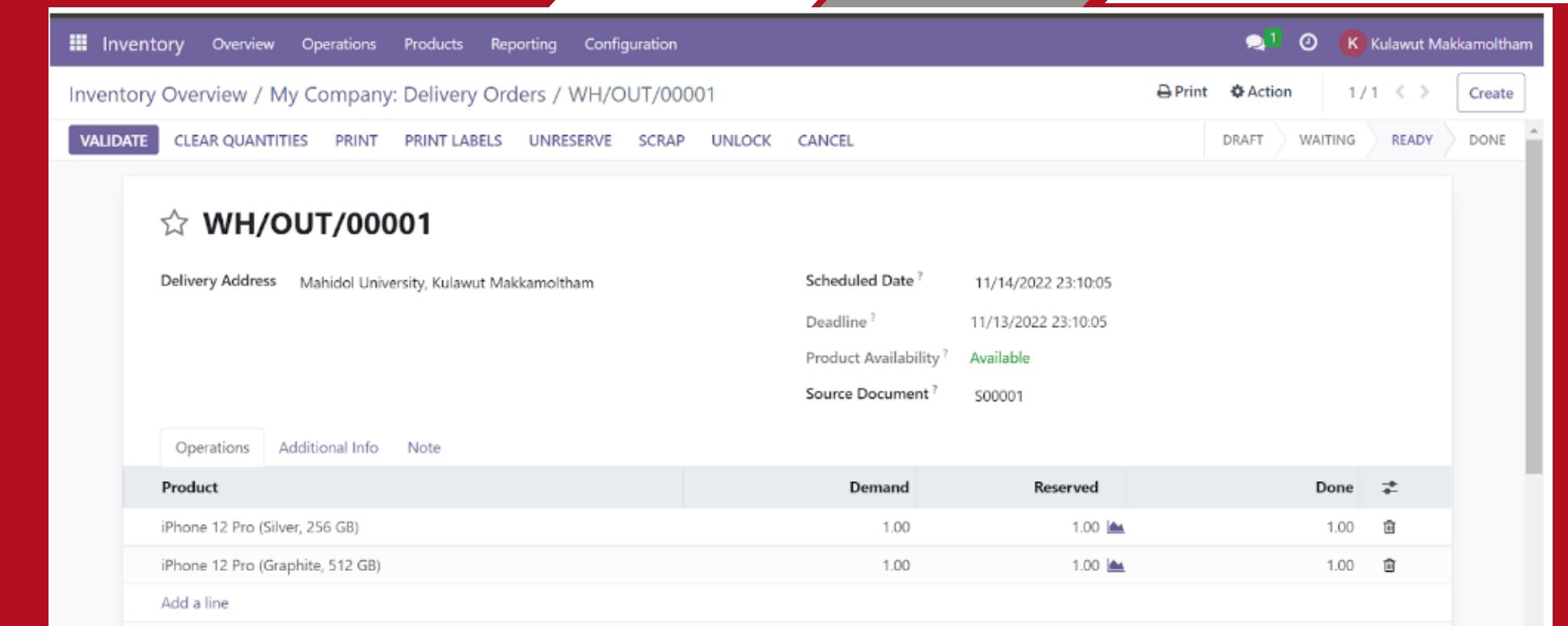
Payment

12

Odoo Screenshots

Delivery & Invoicing

The user can validate the delivery in the inventory module. Then create an invoice in the sale module

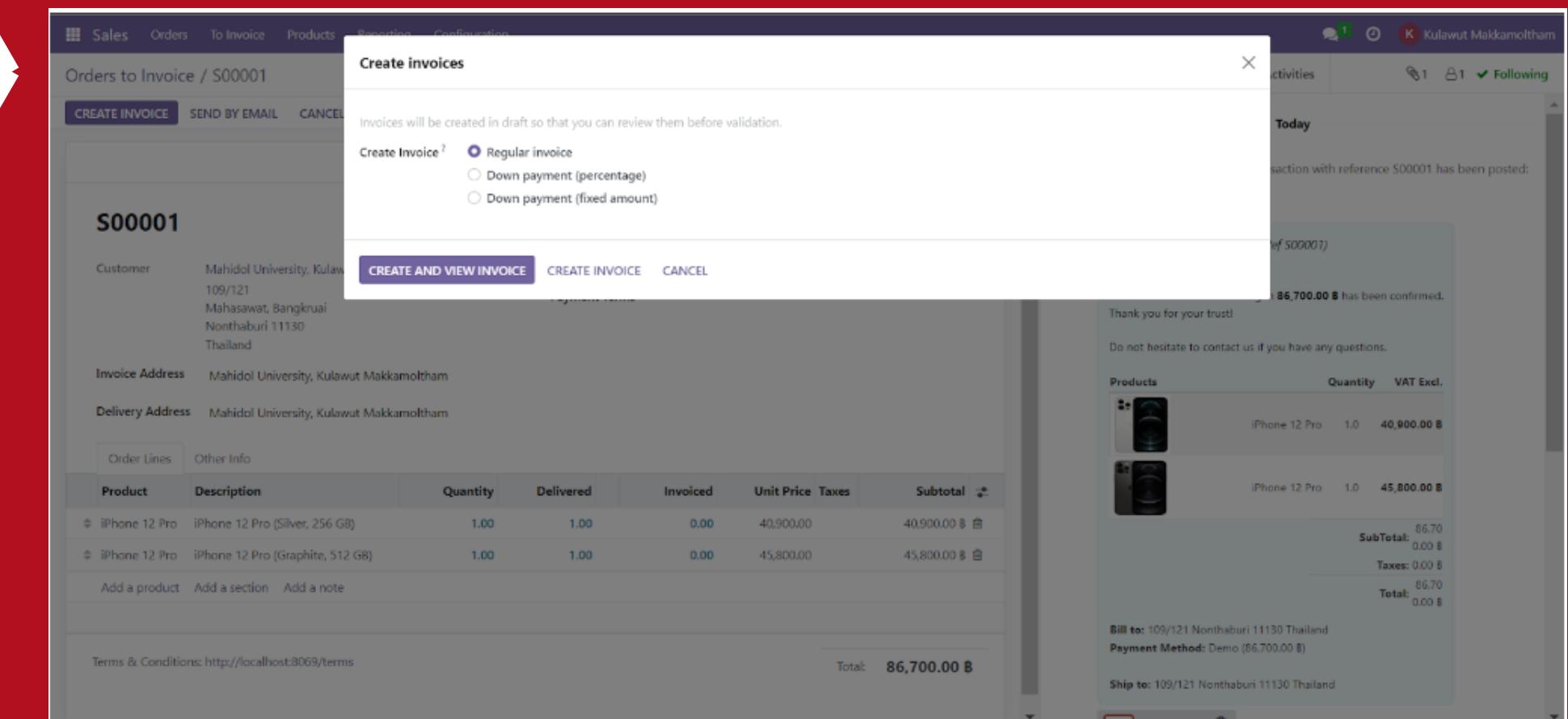


Inventory Overview / My Company: Delivery Orders / WH/OUT/00001

WH/OUT/00001

Delivery Address: Mahidol University, Kulawut Makkamoltham
Scheduled Date: 11/14/2022 23:10:05
Deadline: 11/13/2022 23:10:05
Product Availability: Available
Source Document: S00001

Product	Demand	Reserved	Done
iPhone 12 Pro (Silver, 256 GB)	1.00	1.00	1.00
iPhone 12 Pro (Graphite, 512 GB)	1.00	1.00	1.00
Add a line			



Orders to Invoice / S00001

Create invoices

Invoices will be created in draft so that you can review them before validation.

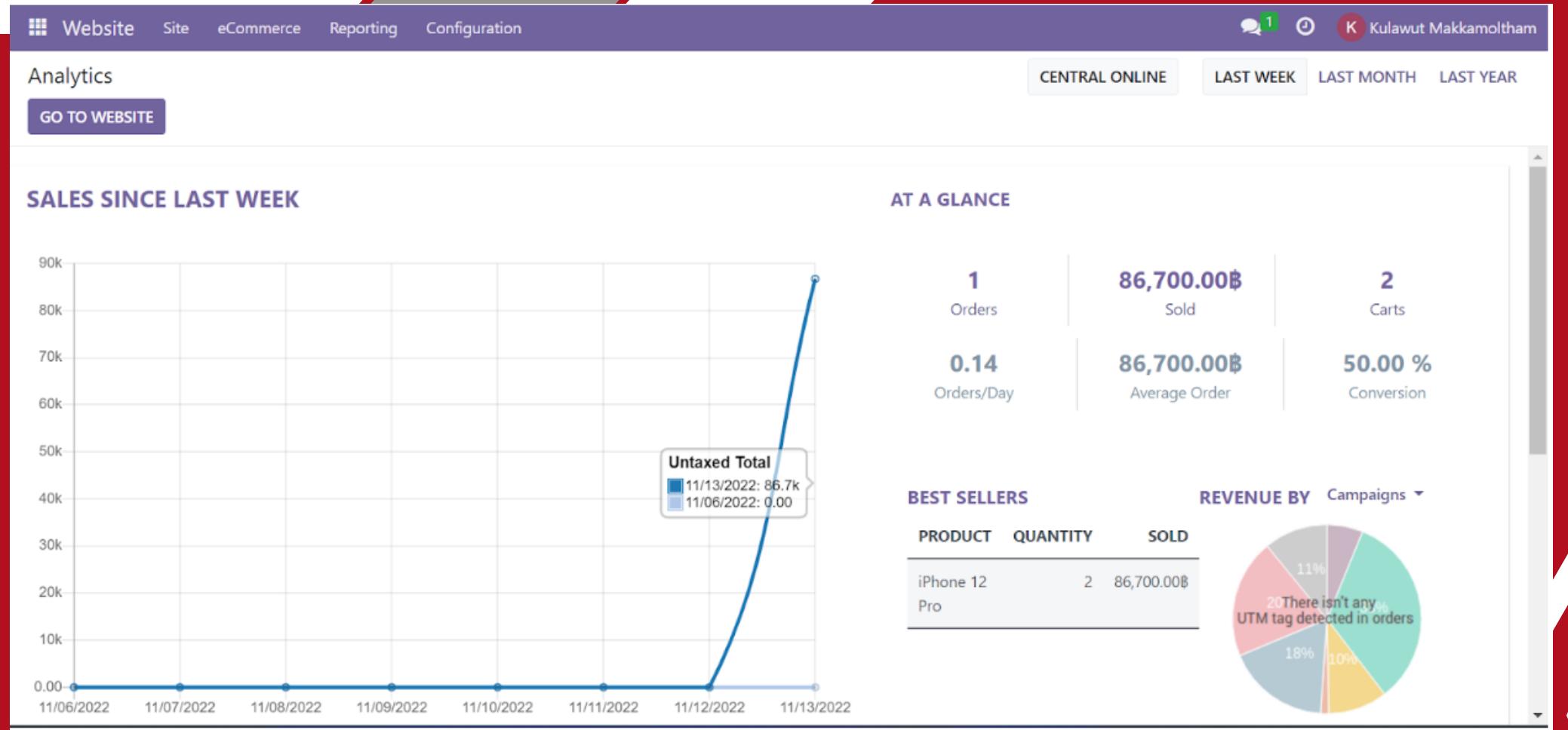
Create Invoice: Regular invoice
 Down payment (percentage)
 Down payment (fixed amount)

S00001

Customer: Mahidol University, Kulawut Makkamoltham
Invoice Address: Mahidol University, Kulawut Makkamoltham
Delivery Address: Mahidol University, Kulawut Makkamoltham

Product	Description	Quantity	Delivered	Invoiced	Unit Price	Taxes	Subtotal
iPhone 12 Pro	iPhone 12 Pro (Silver, 256 GB)	1.00	1.00	0.00	40,900.00 B	40,900.00 B	40,900.00 B
iPhone 12 Pro	iPhone 12 Pro (Graphite, 512 GB)	1.00	1.00	0.00	45,800.00 B	45,800.00 B	45,800.00 B
Add a product	Add a section	Add a note					

Total: 86,700.00 B



The pivot table interface allows filtering by "Confirmed Orders" and applying various filters, groupings, and favorites. The data is organized by category and time period.

	Total					
	Mahidol University, Kulawut Makkamoltham					
	Untaxed Total	Qty Ordered	Qty Delivered	Qty Invoiced	Total	Count
⊖ Total	86,700.00	2.00	2.00	2.00	86,700.00	2
⊖ November 2022	86,700.00	2.00	2.00	2.00	86,700.00	2
⊕ iPhone 12 Pro (Silver, 256 GB)	40,900.00	1.00	1.00	1.00	40,900.00	1
⊕ iPhone 12 Pro (Graphite, 512 GB)	45,800.00	1.00	1.00	1.00	45,800.00	1

CENTRAL ☀

Odoo Screenshots — Sales Analytics

Odoo eCommerce provides the dashboard and pivot table for analyzing sales data

Useful Reports for the Company



Useful Reports

Balance Sheet

An asset, liability, equity, and obligation plus equity are quickly summarized on the balance sheet, which is the

2022-11-14 00:40

My Company

1 / 1

Balance Sheet

Target Moves:

All Entries

Name	Debit	Credit	Balance
Balance Sheet	695,138.44 ₩	695,138.44 ₩	0.00 ₩
Liability	504,672.22 ₩	347,569.22 ₩	157,103.00 ₩
Liability	260,869.22 ₩	260,869.22 ₩	0.00 ₩
210100-Account Payable	260,869.22 ₩	260,869.22 ₩	0.00 ₩
Profit (Loss) to report	243,803.00 ₩	86,700.00 ₩	157,103.00 ₩
Assets	190,466.22 ₩	347,569.22 ₩	-157,103.00 ₩
111002-Outstanding Receipts	86,700.00 ₩	0.00 ₩	86,700.00 ₩
111003-Outstanding Payments	0.00 ₩	260,869.22 ₩	-260,869.22 ₩
120000-Account Receivable	86,700.00 ₩	86,700.00 ₩	0.00 ₩
151000-Input VAT	17,066.22 ₩	0.00 ₩	17,066.22 ₩

 CENTRAL Online

Tom Cruise
1 Sukhumvit Rd, Khwaeng Khlong Tan, Khet
Khlong Toei
Bangkok 10110
Thailand

Order # S00007

Order Date: 11/17/2022 Salesperson: Sasima Sriyanya

DESCRIPTION	QUANTITY	UNIT PRICE	TAXES	AMOUNT
AirPods Pro 2nd generation	1.00 Units	8,990.00	Output VAT 7%	8,990.00฿
iPhone14 Pro AirPods Generation 2 with Charging Case White	1.00 Units	45,900.00	Output VAT 7%	45,900.00฿
Brush With Fate Brush Essentials Kit	1.00 Units	3,150.00	Output VAT 7%	3,150.00฿
Fix Magic Radiance	2.00 Units	1,215.00	Output VAT 7%	2,430.00฿
Foundation Pump	3.00 Units	250.00	Output VAT 7%	750.00฿
Powder Blush Melba	1.00 Units	1,008.00	Output VAT 7%	1,008.00฿
Lightful C + Coral Grass Tinted Primer Spf45/Pa++++ 30 mL	1.00 Units	1,950.00	Output VAT 7%	1,950.00฿
		Untaxed Amount		64,178.00฿
		VAT 7%		4,492.46฿
		Total		68,670.46฿

Payment terms: Immediate Payment

Useful Reports

Quotation/Order

This quote report will provide particular information on the cost of the product or service.

Picking Operations

	CENTRAL Online
	
Warehouse Address:	Vendor Address:
CENTRAL 1027 Phloen Chit Rd, Lumphini, Pathum Wan Bangkok 10330 Thailand 📞 1425	MAC 989 Rama I Rd, Khwaeng Pathum Wan, Khet Pathum Wan Bangkok 10330 Thailand 📞 +66 2 460 7100
WH/IN/00004	
Order: P00003	Status: Done
	Scheduled Date: 11/17/2022 09:50:35
PRODUCT	QUANTITY
Lightful C + Coral Grass Tinted Primer Spf45/Pa++++ 30 mL	5.00
Powder Kiss Lipstick	8.00
MACStack Mascara	10.00
Powder Blush Melba	12.00
Powder Kiss Liquid Lipcolor	7.00
M.A.C Art Library: Flame-Boyant	10.00
Foundation Pump	20.00
Brush With Fate Brush Essentials Kit	9.00
Eye Love Surprises Eye Shadow Palette X6	10.00
Prisma Defiance Eyeshadow	7.00
Studio Fix Fluid SPF15 Foundation	5.00

Delivery Slip

CENTRAL Online

Vendor Address:

MAC
989 Rama I Rd, Khwaeng Pathum Wan, Khet Pathum Wan Bangkok 10330 Thailand
📞 +66 2 460 7100
WH/IN/00004

Warehouse Address:

CENTRAL
1027 Phloen Chit Rd, Lumphini, Pathum Wan Bangkok 10330 Thailand
📞 1425

Order:

P00003

Shipping Date:

11/17/2022 10:20:28

PRODUCT	ORDERED	DELIVERED
Lightful C + Coral Grass Tinted Primer Spf45/Pa++++ 30 mL	5.00 Units	5.00 Units
Powder Kiss Lipstick Powder Kiss Lipstick 3 g	8.00 Units	8.00 Units
MACStack Mascara MACStack Mascara 12 mL Black	10.00 Units	10.00 Units
Powder Blush Melba Powder Blush Melba 6 g.	12.00 Units	12.00 Units
Powder Kiss Liquid Lipcolor Powder Kiss Liquid Lipcolor 5 mL/.17Floz	7.00 Units	7.00 Units
M.A.C Art Library: Flame-Boyant M.A.C Art Library: Flame-Boyant 17.2 g	10.00 Units	10.00 Units
Foundation Pump	20.00 Units	20.00 Units
Brush With Fate Brush Essentials Kit	9.00 Units	9.00 Units

Discussion

Odoo is made up of **over 35 modules**, all of which are necessary components of any business. Odoo ERP integrates accounting, human resources, inventory, manufacturing, and logistics so that users can easily track products from manufacturing to delivery.



Conclusion

We created a BPMN diagram to depict the customer's steps while using the physical retailer store service for the Central department's purchase and selling process. The receipt is used in the **Sales Analysis** to assess sales success and predict what might reduce client wait times and increase customer satisfaction.



CENTRAL 

**THANK
YOU**