

Graduation Project

1. Project Information:

- Project Title: NXT100_Odoo solutions_G4
- Course/Track: Odoo Application Consultant
- Team Members: - Mohamed Adel Abdulrahman
 - Ahmed Mohamed Metwaly
 - Ahmeed Hussein Ali
 - Abdullah Ahmed
 - Mohamed Rageb

2. Project Overview:

- Objective: To implement the Odoo ERP system to streamline and manage the entire automotive manufacturing and sales process. This includes configuring Odoo modules for production, inventory management, sales, and customer relationship management to improve operational efficiency and data accur.
- Scope of Work:
 - Install and configure Odoo ERP system for automotive manufacturing and sales.
 - Customize existing Odoo modules to fit the needs of automotive production and sales.
 - Migrate data from any existing systems into Odoo.
 - Train users on how to effectively use the Odoo system.
 - Develop comprehensive documentation for the implemented system..
- Expected Outcomes:
 - A fully functional Odoo ERP system customized for automotive manufacturing and sales.
 - Improved efficiency and accuracy in managing production, inventory, and sales.
 - Enhanced reporting and analytics capabilities.
 - Successful training of users and provision of documentation for ongoing system us.

3. Problem Statement:

Current processes for managing automotive manufacturing and sales are fragmented or manually handled, leading to inefficiencies and errors. Implementing a unified ERP system like Odoo is necessary to integrate and optimize these processes, improving overall operational efficiency.

4. Proposed Solution:

- Technologies Used:
 - Odoo ERP System Community
 - Configuration tools and techniques within Odoo
 - Data migration tools.
- System Architecture:
 - Frontend: Web-based user interface provided by Odoo for interacting with the system.
 - Backend: Odoo server handling business logic, process automation, and data management.
 - Database: PostgreSQL database integrated with Odoo for storing all operational data.
 - Integration: Use of Odoo's pre-built modules and configurations to support manufacturing, inventory, sales, and customer management functions.

5. Resources Needed

- Hardware/Software:
 - Odoo ERP system Community
 - Odoo cloud

Accounting

New Follow-up Levels New

Description

10 days

Remind 10 days after due date ?

Notification

Activity

Schedule Activity

Activity Type Email

Responsible ? Follow-up Responsible

Summary Notification

Activity Notes



New Reconciliation Models New

Journal Entries 0

Name

Coffee and food

Type ☐ Button to generate counterpart entry

Auto-validate ? ☒ Run manually

☒ Rule to suggest counterpart entry

☐ Rule to match invoices/bills

Bank Transactions Conditions

Partner Mapping

Journals Availability ?

Label ? Contains coffee

Amount Type ? Paid/Received

Note ?

Amount Condition ?

Transaction Type ?

Partner is Set ? ☐

COUNTERPART ENTRIES

Account	Amount Type	Amount	Analytic Distribution	Journal Item Label	
400047 Kitchen and Buffet Expenses	Percentage of balance	100			

https://edu-tu-odoo1.odoo.com/web?reload=true#

New Fiscal Positions
Non-Egypt

2 / 2 < >

Fiscal Position Non-Egypt

Detect Automatically ? ☒

VAT required ? ☐

Foreign Tax ID ?

Country Group ?

Country ?

Tax Mapping

Account Mapping

Tax on Product

Tax to Apply

14% (Sales)

0% (Sales)



14% (Purchases)

0% (Purchases)



Add a line

Legal Notes...

https://edu-tu-odoo1.odoo.com/web?reload=true#

New Analytic Plans
Projects

Subplans
0

Analytic Accounts
0

1 / 1 < >

Projects

Parent

Default Applicability Optional

Color



Applicability

Domain

Financial Accounts Prefix

Product Category

Applicability

Add a line

New Customer Payments Draft Payment

Journal Entry

ConfirmDraftPosted

Draft

Internal Transfer

Payment Type

Customer

Amount

Date

Memo

SendReceive

CarMax

LE15,000.00

10/12/2024

Journal

Payment Method

Company Bank Account

Bank

Manual

Send message

Log note

Activities

Today

Create Deferred Revenue

Code10112

Account Namedeffered revenue

Accounting

Type

Current Liabilities

Account Currency

Default Taxes

Allow Reconciliation

Depreciated

Group

Tags

Allowed Journals

New Asset Models
New

Asset Model name

Phones

DEPRECIATION METHOD

Method ? Straight Line

Duration ? 5 Years

Computation Constant Periods

ACCOUNTING

Depreciation Account ? حساب مجمع الاهلاك

Expense Account ? منصرف الاهلاك →

Journal Tax Adjustments

Send message

Log note

Activities

Q 0 0

Follow

New Payment Terms
15 Days

2 / 9 < >

Payment Terms

15 Days

Early Discount ☒ 2.00 % if paid within 5 days

Reduced tax: Never

DUE TERMS

Due	After
100.000000 Percent	15 Days after invoice date

Add a line

PREVIEW

Example: 1,000.00 LE on 10/12/2024

Payment terms: 15 Days

Early Payment Discount: 980.00 LE if paid before 10/17/2024

1# Installment of 1,000.00 LE due on 10/27/2024

☒ Show installment dates

Inventory

Inventory Overview Operations Products Reporting Configuration



Save Discard Settings Unsaved changes

Search...

General Settings

Sales

Calendar

Purchase

Inventory

Manufacturing

Maintenance

Accounting

Project

Sign

Planning

Employees

Operations



Packages

Put your products in packs (e.g. parcels, boxes) and track them



Warnings

Get informative or blocking warnings on partners



Quality

Add quality checks to your transfer operations



Quality Worksheet

Create customizable worksheets for your quality checks



Reception Report

View and allocate received quantities.



Batch Transfers

Process transfers in batch per worker



Wave Transfers

Process operations in wave transfers

Picking Policy

When to start shipping

Ship products as soon as available, with back orders

Annual Inventory Day and Month

Day and month that annual inventory counts should occur.

31 December

Inventory Overview Operations Products Reporting Configuration



New Products
Hyundai elentra

Extra Prices 0 Documents 0 Variants 2 On Hand 0.00 Units More

2 / 3 < >

☆ Hyundai elentra

Can be Sold Can be Purchased

General Information Attributes & Variants Sales Purchase Inventory Accounting

OPERATIONS

Routes

- ☐ Dropship Subcontractor on Order
☒ Buy
☐ Manufacture
☐ Resupply Subcontractor on Order
☐ Dropship
[View Diagram](#)

TRACEABILITY

Tracking

- ☒ By Unique Serial Number
☐ By Lots
☐ No Tracking

LOGISTICS

Responsible

Mohamed Adel

Customer Lead Time

3 days

HS Code

Origin of Goods

Save Discard Settings Unsaved changes

Search...

General Settings

Sales

31 Calendar

Purchase

Inventory

Manufacturing

Maintenance

Accounting

Project

Sign

Planning

Employees

Point of Sale

Storage Categories

Advanced Scheduling

☒ Security Lead Time for Sales ⓘ
Schedule deliveries earlier to avoid delays
Move forward expected delivery dates by
2.00 days

☐ Security Lead Time for Purchase ⓘ
Schedule request for quotations earlier to avoid delays

Days to Purchase
Days needed to confirm a PO
2.00 days

Logistics

☒ Dropshipping ⓘ
Request your vendors to deliver to your customers

New Locations Virtual Locations/Inventory adjustment ⚙

Putaway Rules

Current Stock

7 / 25 < >

Location Name

Inventory adjustment

Parent Location ?

Virtual Locations

ADDITIONAL INFORMATION

Location Type ? Inventory Loss

Is a Scrap Location? ? ☐

Is a Return Location? ? ☐

LOGISTICS

External note...

ACCOUNTING INFORMATION

Stock Valuation Account (Incoming) ? 999011 Inventory Adjustment Loss

Stock Valuation Account (Outgoing) ? 500024 Inventory Adjustment Gain

New Warehouses
edu- tu odoo

Routes

1 / 1 < >

Warehouse

Main Warehouse (cairo)

Short Name ? WH-Ca

Address edu- tu odoo

Warehouse Configuration

SHIPMENTS

- Incoming Shipments ?
- ☐ Receive goods directly (1 step)
 - ☐ Receive goods in input and then stock (2 steps)
 - ☒ Receive goods in input, then quality and then stock (3 steps)
- Outgoing Shipments ?
- ☐ Deliver goods directly (1 step)
 - ☐ Send goods in output and then deliver (2 steps)
 - ☒ Pack goods, send goods in output and then deliver (3 steps)

RESUPPLY

- Buy to Resupply ? ☒
- Dropship Subcontractors ? ☒
- Resupply Subcontractors ☒
- Manufacture to Resupply ? ☒
- Manufacture ?
- ☐ Manufacture (1 step)
 - ☐ Pick components and then manufacture (2 steps)

New Product Packagings
Battery Packaging

1 / 1 < >

Packaging

Battery Packaging

Product Battery

Purchase ? ☒Sales ? ☐

Routes ?

Package Type

Contained quantity ? 5.00 Units

Barcode ?

New Reordering Rules ⚙️

Q Trigger Auto X Search...

1-4 / 4 < > [Menu] [Filter]

<input type="checkbox"/>	Product	Location	On Hand	Forecast	Route		Min Qua...	Max Qua...	To Order	UoM
<input type="checkbox"/>	Hyundai Tuscan...	WH-Ca/Stock	0.00	2.00	Buy		2.00	0.00	0.00	Units
<input type="checkbox"/>	Hyundai elentra...	WH-Ca/Stock	0.00	2.00	Buy		2.00	0.00	0.00	Units
<input type="checkbox"/>	Kia Cerato (Red)	WH-Ca/Stock	0.00	2.00	Manufacture		2.00	0.00	0.00	Units
<input type="checkbox"/>	Kia sportage (W...	WH-Ca/Stock	0.00	2.00	Manufacture		2.00	0.00	0.00	Units

New Shipping Methods
Standard delivery ⚙️ 📦 ↺

1 / 1 < >

Shipping Method

Inside Cairo and giza

Provider Fixed Price

Fixed Price LE600.00

[Install more Providers](#)Free if order amount is above ? ☐

Routes

Delivery Product [Delivery_007] Standard delivery

Destination Availability

Description

Filling this form allows you to filter delivery carriers according to the delivery address of your customer.

Countries Eqvpt XStates Cairo (EG) X Giza (EG) X

Zip Prefixes ?

Sales

Purchase Orders Products Reporting Configuration

Save

Discard

Settings

Unsaved changes

Search...

General Settings

Sales

Calendar

Purchase

Inventory

Manufacturing

Maintenance

Accounting

Project

Sign

Planning

Employees

Point of Sale

Orders



Purchase Order Approval

Request managers to approve orders above a minimum amount

Minimum Amount

LE10,000.00



Warnings

Get warnings in orders for products or vendors



Receipt Reminder

Automatically remind the receipt date to your vendors



Lock Confirmed Orders

Automatically lock confirmed orders to prevent editing



Purchase Agreements

Manage your purchase agreements (call for tenders, blanket orders)

Invoicing

Bill Control

Quantities billed by vendors

☐ Ordered quantities

☒ Received quantities



3-way matching

Make sure you only pay bills for which you received the goods you ordered

Purchase Orders Products Reporting Configuration

New

Blanket Orders

New

Confirm

Cancel

Draft

Ongoing

Closed

Reference

New

Purchase Representative

Mohamed Adel

Agreement Type

Blanket Order

Vendor

Hyundai

Currency

EGP

Agreement Deadline

12/31/2024 19:00:00

Ordering Date

Delivery Date

Source Document

e.g. PO0025

Operation Type

Main Warehouse (cairo: Receipts)

Products

Product	Custom Description	Quantity	Ordered Quantities	UoM	Unit Price
Hyundai Tuscan (White)		100.00	0.00	Units	420,000.00
Add a line					

Generate Coupons

Program Name

2% discount Coupon

Program Type Coupons

Generate & share coupon codes manually. It can be used in eCommerce, Point of Sale or regular orders to claim the Reward. You can define constraints on its usage through conditional rule.

Currency EGP

Pricelist

Rules & Rewards

Start Date ? 10/10/2024

End date ? 10/31/2024

Limit Usage ☒ to 10 usages

Available On ☒ Point of Sale ☒ Sales

Point of Sale ? All PoS

Conditional rules

Add

Rewards

Add

If minimum 1 item(s) bought
If minimum 1,000,000.00 LE spent (tax excluded)

Among:
☒ All

10.00% discount on your order

2.00% discount (Max 10,000.00 LE) on your order

Location Name

Gifts & Donations

Parent Location ?

Virtual Locations

ADDITIONAL INFORMATION

Location Type ? Inventory Loss

Is a Scrap Location? ? ☐

Is a Return Location? ? ☐

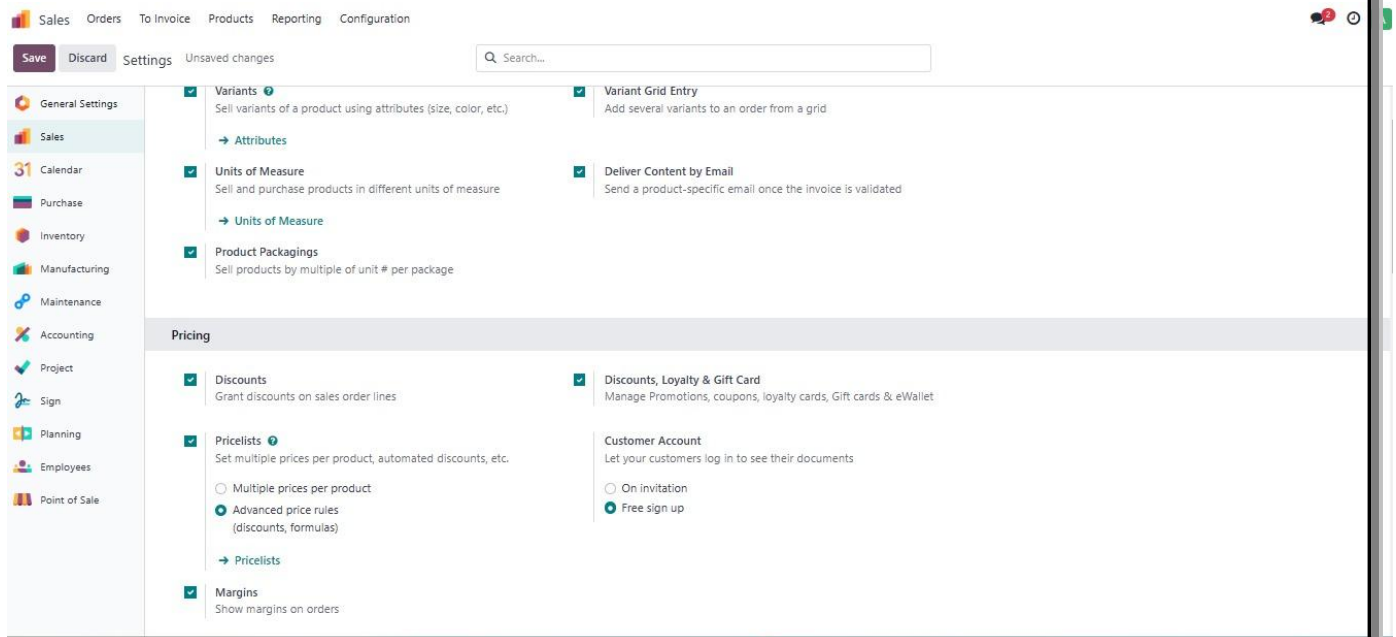
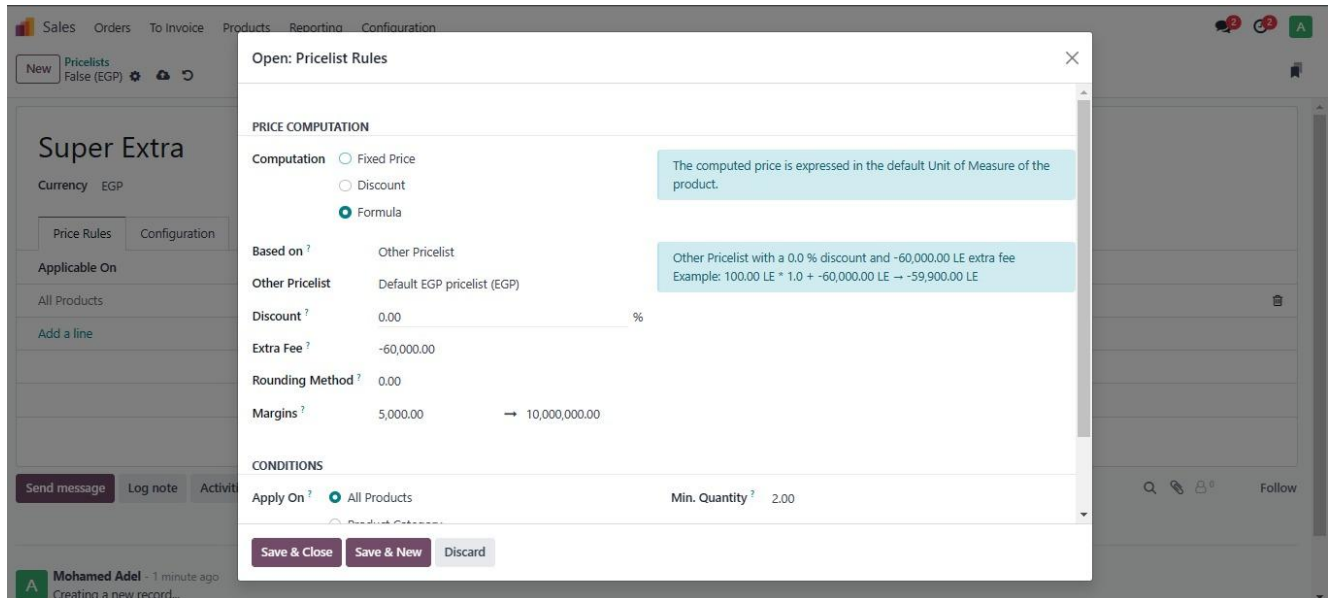
LOGISTICS

External note...

ACCOUNTING INFORMATION

Stock Valuation Account (Incoming) ? 400046 Gifts & Donations

Stock Valuation Account (Outgoing) ?



Manufacturing

Manufacturing Operations Products Reporting Configuration

Save Discard Settings

Search...

- General Settings
- Sales
- Calendar
- Purchase
- Inventory
- Manufacturing
- Maintenance
- Accounting
- Project
- Sign
- Planning
- Employees
- Point of Sale

Operations

- ☒ **Work Orders**
Process operations at specific work centers
[Print barcode commands](#)
→ Work Centers
☐ **Work Order Dependencies**
Set the order that work orders should be processed in.
Activate the feature within each BoM's Miscellaneous tab
- ☒ **Shop Floor**
Manage your manufacturing orders from the shop floor app
- ☐ **Barcode Scanner**
Process manufacturing orders from the barcode application
- ☐ **Unlock Manufacturing Orders**
Allow manufacturing users to modify quantities to consume, without the need for prior approval
- ☐ **Allocation Report for Manufacturing Orders**
View and allocate manufactured quantities
- ☒ **Subcontracting**
Subcontract the production of some products
- ☐ **Timer**
Show the timer on the work order screen
- ☒ **Quality**
Add quality checks to your work orders
☐ **Quality Worksheet**
Create customizable worksheets for your quality checks
- ☐ **By-Products**
Produce residual products (A + B -> C + D)

Planning

- ☒ **Master Production Schedule**
Plan manufacturing or purchase orders based on forecasts
- ☒ **Security Lead Time**
Schedule manufacturing orders earlier to avoid delays
2.00 days

Manufacturing Overview Operations Planning Products Reporting Configuration

Replenish Add a Product Master Production Schedule

Search...

1-2 / 2 < >

	Oct 11	Oct 12	Oct 13	Oct 14	Oct 15
<input type="checkbox"/> Hyundai elentra (blue) by Units - Main Warehouse (cairo)	0.00	-1.00	1.00	3.00	3.00
- Actual / Forecasted Demand	0.00 / 3.00	0.00 / 0.00	0.00 / 0.00	0.00 / 0.00	0.00 / 0.00
+ Suggested Replenishment Replenish	1 ≤ ... ≤ 2	2.00	2.00	0.00	0.00
= Forecasted Stock	⊖ 3	-1.00	1.00	3.00	3.00

New Work Centers
New

OEE 0.00% Lost 0.00 Hours Load 0.00 Minutes Performance 0% Maintenance 0

Work Center Name Hall 1

Code

Tag

Working Hours Standard 40 hours/week

Alternative Workcenters ?

General Information Specific Capacities Equipment Maintenance

PRODUCTION INFORMATION

Time Efficiency ? 95.00

%

Capacity ? 1.00

OEE Target ? 90.00

%

OPERATIONS

Allowed Employees ?

DESCRIPTION

COSTING INFORMATION

Cost per hour ? 126.00 per workcenter

50.00 per employee

Analytic Distribution

Setup Time 05:00 minutes

Cleanup Time 5 minutes

New Manufacturing Orders
WH-Ca/MO/00003

Transfers 2 Traceability Product Moves Overview

1 / 1

Scrap Unlock Maintenance Request Unbuild Print Labels

Draft Confirmed Done

MO Reference

☆ WH-Ca/MO/00003

Product Kia sportage (White)

Start Date ? 10/11/2024 20:31:14

Quantity 1.00 / 1.00

Units

To Produce

End ? 10/11/2024 20:34:37

Bill of Material ? Kia sportage

Responsible A Mohamed Adel

Lot/Serial Number 0000001

Components Work Orders Miscellaneous

Product	From	To Consume	Quantity	UoM	Consumed	
tires	WH-Ca/Pre-Production	4.00	4.00	Units	<input checked="" type="checkbox"/>	
motor	WH-Ca/Pre-Production	1.00	1.00	Units	<input checked="" type="checkbox"/>	
Brake discs	WH-Ca/Pre-Production	1.00	1.00	Units	<input checked="" type="checkbox"/>	
Chassis	WH-Ca/Pre-Production	1.00	1.00	Units	<input checked="" type="checkbox"/>	
Alternator	WH-Ca/Pre-Production	1.00	1.00	Units	<input checked="" type="checkbox"/>	

Others

CancelNew RequestIn ProgressRepairedScrap

Request

hall 2

Created By

A Mohamed Adel

For

Work Center

Work Center

hall 2

Request Date ?

10/11/2024

Maintenance Type

Corrective

Preventive

Manufacturing Order

Team

Internal Maintenance

Responsible

Mohamed Adel

Scheduled Date ?

10/14/2024 00:00:00

Duration ?

02:00 hours

Recurrent

Block Workcenter ?

Priority

Notes

Instructions

QCP00001

Title

check engine

Products ?

motor X

Product Categories ?

Operations

Main Warehouse (cairo: Pick X

Responsible

Mohamed Adel

Control per ?

Product

Control Frequency

All

Type ?

Pass - Fail

Team

Main Quality Team

Instructions

Message If Failure

Notes

Describe the quality check to do...

