# Technical Proposal: Odoo System Implementation for Clothing Manufacturing Company (Group 2)

## Team Members:


1. Mohamed Elsayed Ebrahim Abdelaziz
2. Shaymaa Mohamed Elsayed Deyab
3. Maha Majed Abd Elrahman Naoum
4. Aya Abdel-Aziz Abdel-Aal Zaki
5. Ahmed Ragai Korany Mohamed
6. Ayman Zain Eldeen Shaker Zaineldeen


## Table of Contents:

# 1. Executive Summary:

This document outlines a technical proposal for the implementation of Odoo v18.00 to manage the operations of a clothing manufacturing company. The primary objective is to address the challenges of fragmented data, inefficient operational processes, and difficulties in data analysis. By integrating key business functions – including Purchasing, Inventory, Manufacturing, Sales, Customer Service, Accounting and Data Analysis – into a unified Odoo system, the company will benefit from improved data accuracy, enhanced operational efficiency, better decision-making through comprehensive reporting, and streamlined communication across branches

# 2. Project Overview:

Objective: Implementing the Odoo system in managing a clothing manufacturing company to achieve the following:

integrate data analysis and operational processes.

Identify existing operational obstacles and implement appropriate Odoo solutions to optimize the management of the company's resources.

Saving time and make work easier, Provide detailed and continuous reports, enabling managers to make informed and timely decisions.

# 3.Scope of Work:

implementation and configuration of : Purchase - Inventory – Manufacturing – Sales Modules.

Data Analysis and report generation capabilities.

# 4.Expected Outcomes:

Establish a unified, integrated, and highly secure system for all critical business data.

Enable easy and efficient access to and analysis of consolidated data.

Achieve accurate tracking of inventory levels, simplified management of stock, and efficient handling of damages and shortages.

Streamline manufacturing operations and integrate associated purchasing processes within a flexible system.

## 5.Problem Statement:

## The company currently faces challenges due to:

lack of integration of customer and supplier data.

Difficulty in accurately tracking inventory, managing damages, and maintaining optimal stock levels.

Inefficient management due to the use of multiple, non-integrated, and disconnected data systems.

Slow and time-consuming operational processes under the existing management system.

Difficulties in performing comprehensive data analysis for informed decision-making.

## 6.Proposed Solution:

The implementation of Odoo v18.00 will provide a comprehensive and integrated solution to address the identified problems.

Technologies Used: Odoo v18.00.

System Architecture: The implementation will involve:

Centralizing all business data into a single Odoo database.

Configuring and customizing the selected Odoo modules (Purchasing, Inventory, Manufacturing, Sales, accounting) to align with the company's specific operational workflows.

Developing custom reports and dashboards for effective data analysis and decision-making.

Establishing secure access controls and user roles for employee groups.

Thorough testing and user training to ensure successful adoption and utilization of the Odoo system.

## 7.Resources Needed:

Odoo v18 (Paid Version - appropriate license based on user count and required modules).

Server infrastructure to host the Odoo instance (on-premise or cloud-based, to be determined based on requirements).

Microsoft Office Suite (for documentation and potential data migration ).

Mind mapping program (for process analysis and visualization).

Internal Project Team from the clothing manufacturing company.

## Definitions, Acronyms, and Abbreviations

**ERP** Enterprise Resource Planning

**DB:** It refers to a database, which is an organized collection of data stored electronically. Odoo relies on a database to store its information.

**Odoo :**A suite of open-source business management software applications.

## 8.Project Timeline:

**The following is a preliminary timeline. A detailed project plan with specific tasks and durations during the project initiation phase:**

| | |
|---|---|
| **Phase 1: Initiation & Planning 1 Week** | Project kickoff meeting, detailed requirement gathering, process analysis, project plan development, team assignment, environment setup. |
| **Phase 2: Design & Configuration 1 Week** | Odoo system configuration based on requirements, module customization, workflow design, user role definition |
| **Phase 3: Development & Integration 1 Week** | Custom module development (if required), integration with other systems (if applicable), data migration strategy and execution. |
| **Phase 4: Company Data Uploading & QA 1 Week** | Uploading the Company Data<br>In Addition to explain methods for users<br>Then answer the question of users |
| **Phase 5: Deployment & Go-Live 1-2 Weeks** | Final system deployment, user training, go-live support. |
| **Phase 6: Post-Go-Live Support Ongoing** | System monitoring, issue resolution, ongoing support and maintenance, potential further optimization |

## 9.Project cost:

| Duration | Rate hourly | Cost |
|---|---|---|
| **Week1** | **500 * 4** | **2000** |
| **Week2** | **500 * 4** | **2000** |
| **Week3** | **500 * 4** | **2000** |
| **Week4** | **500 * 4** | **2000** |
| **Week5-6** | **500 * 8** | **8000** |

**Total Project cost: 16000 Egyptian pound**

## 10. Payment Terms:

Initial Payment: 30% of the total project cost upon contract signing.

Milestone Payments: 50% of the total project cost, distributed across key deliverables (e.g., design completion, customization ).

Final Payment: 20% of the total project cost upon successful deployment and go-live.

## 11. Scope:

**Implementation and configuration** of the following Odoo v18 modules:

**Purchasing:** Managing supplier relationships, purchase requests, purchase orders, and vendor bills.

**Inventory:** Managing stock levels, warehouse operations, stock movements, inventory adjustments, and handling damages/losses.

**Manufacturing:** Managing Bills of Materials (BOMs), production orders, work centers, and manufacturing processes.

**Sales:** Managing customer relationships, quotations, sales orders, pricing, and sales teams (including wholesale, private, and retail).

**Data Analysis:** of reporting tools and dashboards within Odoo to provide insights into key business metrics across all implemented modules.

**User training** on the implemented Odoo modules.

**Go-live** support and initial post-go-live assistance.

## Out-of-Scope Items:

Integration with third-party systems beyond the standard Odoo functionalities

Detailed customization of reporting beyond the standard Odoo reporting

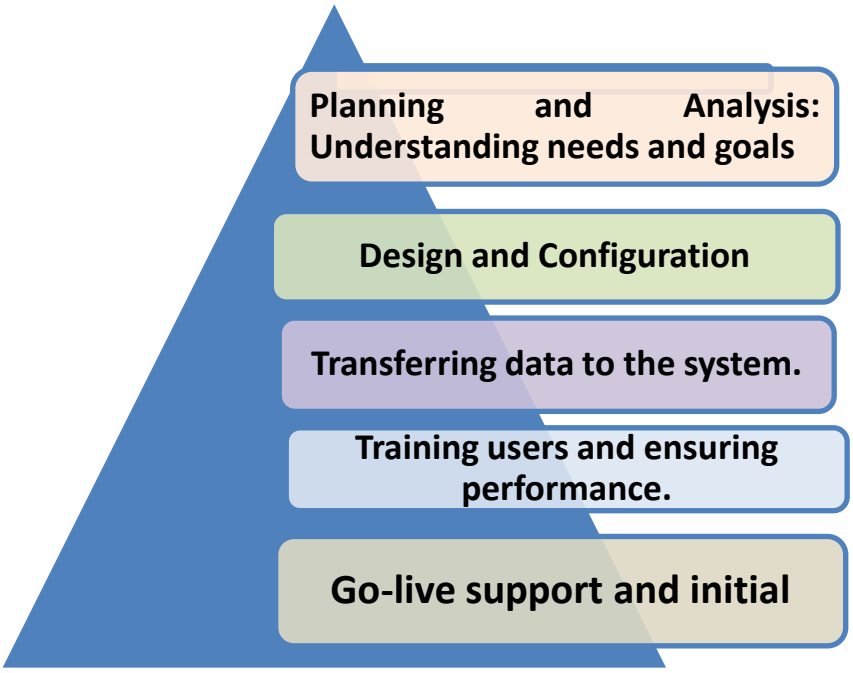
Hardware procurement and setup.

Network infrastructure setup or modifications.

Legal or compliance consulting.

Ongoing support and maintenance beyond the initial post-go-live period (a separate support agreement can be established).

## 12.Workflow steps:




## 7. Stakeholders

Company Management  Project Sponsor, interested in overall efficiency, cost reduction, and improved decision-making.  Final project approval, budget allocation, providing strategic direction.

Production Department  End-users of the Manufacturing and Inventory modules, concerned with efficient production planning and stock management.  Providing detailed requirements for the Manufacturing and Inventory modules, participating in testing and training.

Sales Department End-users of the Sales and CRM modules, focused on managing customer interactions and sales processes. Providing detailed requirements for the Sales and CRM modules, participating in testing and training.

Purchasing Department End-users of the Purchasing and Inventory modules, responsible for procurement and supplier management. Providing detailed requirements for the Purchasing and Inventory modules, participating in testing and training.

IT Department (if applicable) Responsible for the company's IT infrastructure and may be involved in system maintenance. Providing technical support for the Odoo implementation, ensuring system compatibility and security.

Odoo Implementation Team

# 13. User Stories and Use Cases

## User Stories:

a Production Manager wants to easily create and manage Manufacturing Orders so that I can track production progress and material consumption.

a Sales Representative, want to create quotations and sales orders quickly and efficiently so that I can close deals faster.

Warehouse Manager, wanst to receive notifications for low stock levels so that I can ensure timely replenishment and avoid stockouts.

As a Purchaser, wants to generate purchase orders based on sales demand and low stock levels so that I can maintain optimal inventory.

a Company Manager, wants to generate reports on sales performance, inventory levels, and production costs so that I can make informed business decisions.

## Use Cases:

Create a New Purchase Order: A user in the Purchasing department creates a purchase order for raw materials, specifying the supplier, items, quantities, and delivery date.

Process a Sales Order: A user in the Sales department receives a customer order, creates a sales order in the system, checks inventory availability, and initiates the delivery process.

Track Production of Finished Goods: A user in the Production department creates a manufacturing order, assigns materials, tracks work order progress, and records the completion of finished goods.

Manage Inventory Levels: The system automatically updates inventory levels upon receiving goods, completing production, and fulfilling sales orders. Users can view current stock levels, perform stock adjustments, and generate inventory reports.

.