GLS UNIVERSITY

Faculty of Computer Applications & Information Technology

Integrated MSc(IT)

1601606 DISSERTATION / MINI PROJECT
(Skill Enhancement Course)

Title Approval Form – Mini Project

A. Student's Details:

1. R.No: B22 Name : YASH VIRANG MEHTA Enrollment No:202001619010094

B. Project Details:

Mini Project Title:WAREHOUSE MANAGEMENT(Reordering Rule based on Warehouse Stock.)
Tools & Technologies: Front End :PYSCRIPT,VIEWJS,HTML5, CSS **Back End :DJANGO FRAMEWORK**

C. Project Description:

Purpose: A business owner sells some products to their customers. They purchase these products from their suppliers/vendors. They store these products at their own ware-house.

One of the important aspects of managing their business to control the stock levels of their products. The business owner's purpose is it maintain optimal stock levels and avoid understocking or overstocking their products and hence requires a reordering so-lution.

Detailed Description:

When a sales order comes to our system for some products and several quantities of those products The sales module checks the warehouse for stock avialability and confirms the order and the receipt going to be generated with product key value (key value help to find product in warehouse). When the order is dispatched, the stock levels of the respective products will be reduced by the ordered quantities.

On the other side, the business owner places a purchase order to their supplier from time to time for the products they sell. Based on the sales orders they receive from the cus-tomers, they choose which products to order, when to order them and how many quan-tities to order.

In order to ensure optimal stock, the business owner has set a reordering rule for each of the products. The system should enable the business owner to set the rules as follows:

When the stock of a specific product reaches a certain quantity (minimum quantity), the system should automatically create a purchase order to the supplier of that product for a certain quantity (maximum quantity).

When the supplier confirms the purchase order and dispatches the good, the business owner receives those products into their warehouse and accordingly updates the stock quantity of respective products in the system.

D. Functionalities:

The system should have the following features or functionalities:

- Manage product & product details (name, description, price, stock etc.)

- Manage warehouse & location
- Generate sales order & delivery order
- Generate purchase order & receipt
- Generate record of customers & vendors
- Assign specific vendors to products
- Maintain stock levels of products
- Managing of reordering rules

Tentative Project Module Names with Description:

Product Module :

- Management of products along with warehouse & location & quantity. o Products inventory & location.

When a sales order comes to our system for some products and several quantities of those products. The sales module checks the quantity and quantity and confirms the order. When the order is dispatched, the stock levels of the respective products will be reduced by the ordered quantities.

Sales module:

- Generate sales order & receipt o Sales order record
  - Bill generation

The sales module checks the quantity and confirms the order. Sales module also check the total quantity available in system if the total quantity is less than certain quantity (minimum quantity) than activate purchase module.

Purchase module:

- Generate purchase order & receipt o purchase order record
  - Bill generation

When the total quantity of specific product is less than certain quantity (minimum quantity) than vendor will notify and get purchase order , and the product is received than quantity will be added to that specific product .