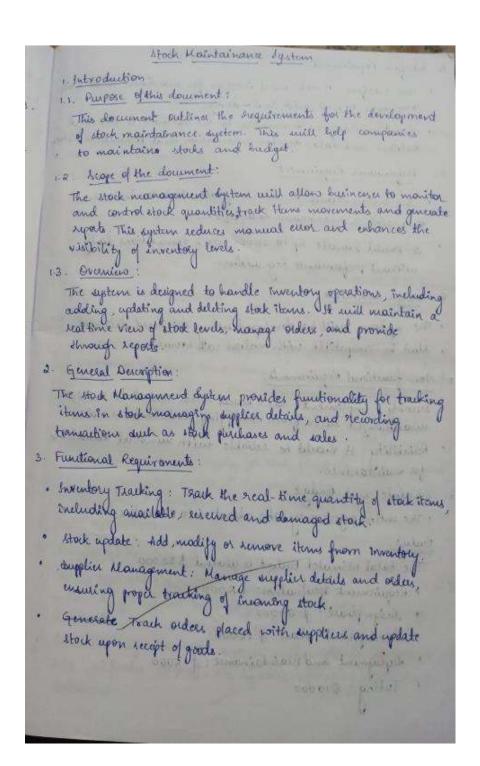
## STOCK MAINTENANCE SYSTEM

# SOFTWARE REQUIREMENTS SPECIFICATION



a therface Requirement: · there Interface: A web-based enterface for morehouse and there managers to view add and manage stock. · Database interface: A connection to the database to store and notrieve stock data, supplier information and transaction history 5. Performance Requirement: . The system should be able to update stock levels in real time with a maximum delay of 1 sec. . It should handle up to 10000 stock transactions daily without performance degradation. 6. Sessign Constraints: · The system will be developed using SQL based database. . Must be compatible with modern with browner. Non-functional Requirements: · security: implement ade based access control to sestivict unauthorized weers from modifying stock leids of orders. · Reliability: It should be reliable with minimal downtime for moentanance. Schedule and Budget: · The entire project may take about 6 to 8 months. Budget: The total utiniated Budget is around \$ 55000 · Requirement specification: \$ 2000 · dusque phase: \$ 20000 · Development phase \$ 12000 Deployment and maintainance: \$ 5000 Tuting: \$10000

### UML DIAGRAMS

### **CLASS DIAGRAM**

#### STOCK MAINTENEANCE SYSTEM - CLASS DIAGRAM Customer Supplier +supplierID: String {unique} +customerID: String {unique} +name: String +name: String +contact: Integer[1..10] +company: String +contact: Integer[1..10] +address: String +supplyProduct(product: Product, quantity: Integer): void +generateProduct(productID: String, name: String, price: Double): Product +updateDetails(newName: String, newContact: Integer, newCompany: String): void +manageOrders(order: Order): void +createOrder(product: Product, quantity: Integer): Order +cancelOrder(orderID: String): void +updateDetails(newName: String, newContact: Integer, newAddress: String): void 0.. 1..\* +CustomerOrders +Interactions 0 . Order InventoryManager +orderID: String {unique} +managerID: String {unique} +name: String +date: String +totalAmount: Double +contact: Integer[1..10] +suppliedProducts +status: OrderStatus +email: String +placeOrder(product: Product, quantity: Integer): void +monitorStock(product: Product): String +generateReport(startDate: String, endDate: String): String +reorderProduct(product: Product, quantity: Integer): void +updateInventory(product: Product, quantity: Integer): void +cancelOrder(): void +confirmOrder(): void +trackOrder(): String 0..\* «enumeration» Product +orderedProducts OrderStatus +productID: String {unique} (from Order) +name: String +quantity: Integer[0..\*] Pending Confirmed +price: Double +productID Cancelled +updateStock(newQuantity: Integer): void +checkAvailability(): Boolean +setPrice(newPrice: Double): void Delivered +managedProducts +reStock(amount: Integer): void

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	M304 STOCK MAINTENANCE SYSTEM				
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