SRS Document

For

Medical Supply Management

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1. Introduction

1.1 Purpose

The purpose of this document is to specify the requirements for the Medical Supply Management Database Management System (DBMS). It details the functional and non-functional requirements, system features, and design

1.2 Scope

The DBMS project on Medical Supply Management aims to manage information on various medical warehouses. The information mainly includes inventory of the warehouse and its various buyers. This project achieves information storage and retrieval without any discrepancies

1.3 References

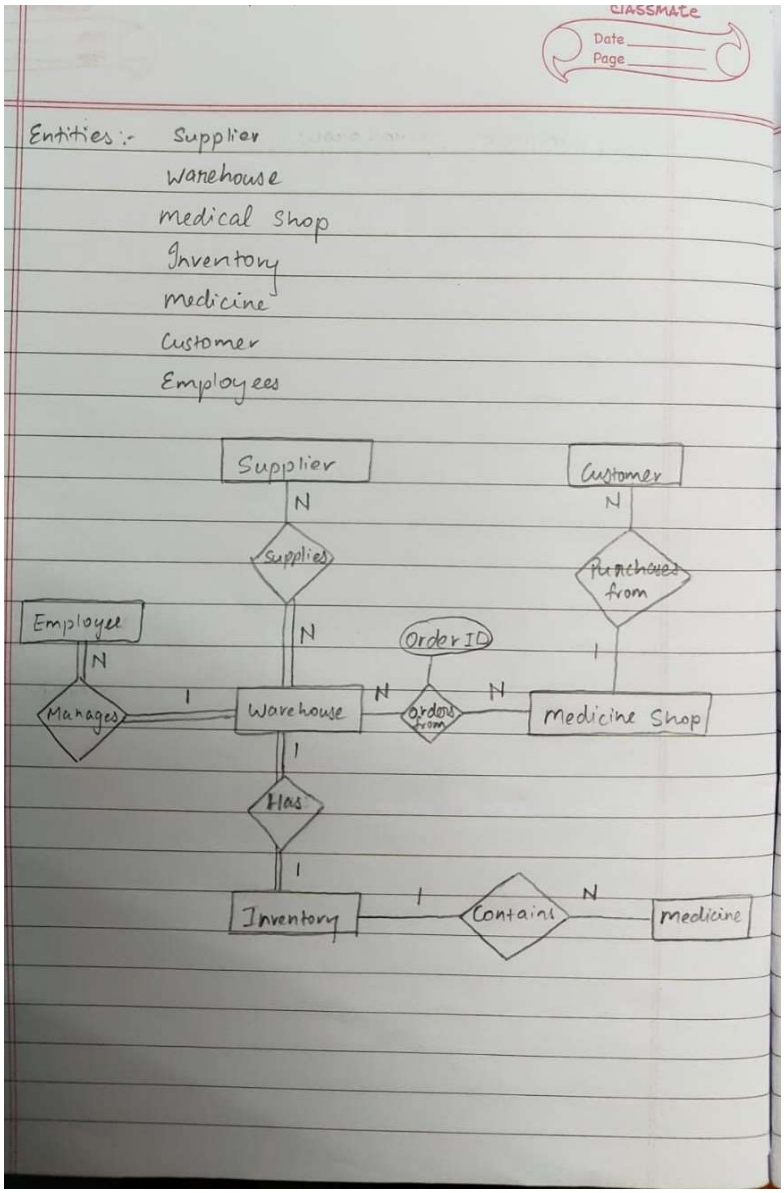
- IEEE Standard for Software Requirements Specifications
- Database design best practices

2. Overall Description

2.1 Product Perspective

This product is designed to be used to manage the inventory of a warehouse for medicines. It also aims to make other entities such as supplier manage the inventory for an improved management system

2.2 Product Diagram



2.3 Product Functions

- Inventory Management: Medicines can be added, removed or updated.
- Reports: A report of medicines bought by various clients(shops,hospitals etc)
- Supplier: A new feature is that trusted suppliers can add to the inventory without any admin intervention
- Alerts: They are produced and sent to suppliers when the stock is low

2.4 User Classes and Characteristics

- Admin Users: Warehouse manager and trusted suppliers, the manager of the warehouse can add, delete and update medicines in inventory whereas suppliers can only add medicines to inventory
- General Users: Clients(pharmacies,hospitals… etc) can make orders and only read the database of medicines available in the warehouse

2.5 Design and Implementation Constraints

- All databases are done using MySQL

2.6 Assumptions and Dependencies

- AS-01: User must be connected to the internet at all times while using the app(used to update the inventory immediately)
- DE-01: Admin Users and General Users must have some level of expertise

3. Specific Requirements

3.1 User Interface

- A webpage is provided where admin users can perform CRUD (Create, Read, Update, Delete) operations to update the inventory
- The system shall allow clients to order medicines and also view their order history
- Admin users will also get alerts when the quantity for a medicine is low

3.2 Functional Requirements

- Inventory Management
    - Admin users can add, delete and update the attributes of each medicine
    - The system will also display medicines with very low stock (if needed)
- Reports
    - Clients can view the stock levels of each medicine in the warehouse and their order history
- Supplier
    - Suppliers have an important role, where they can add to the inventory without any intervention from the admin
- Alerts
    - When stock level is low and clients make requests for that medicine alerts are sent to the warehouse to indicate the stock level
- Clients
    - All clients are required to present a certificate when registering to buy medicines

3.3 Non-Functional Requirements

- The project makes sure all updates done to in the user interface are updated in the database also to prevent any discrepancies
- All clients are required to register in the webpage, so that no medicines are sold to unauthorised clients

4. Conclusion

The project aims to make inventory management simpler and accessible to people with all levels of expertise. This also helps in making information storage and retrieval much more safer and without any errors as compared to the manual pen and paper method of storing data.