



DATABASE THEORY ASSIGNMENT #01

NAME : **SUDAIS KHAN**

REG NO# **042**

SECTION : **BSE 3B**

SEMESTER : **3rd**

SUBMITTED TO **MR. WASEEM KHAN**

Question: Select the project of your choice and explain the points mentioned below according to your project?

PHARMACY MANAGEMENT SYSTEM

1.Explain Scope of your project?

Pharmacy management system is a management system that is designed to improve accuracy and to enhance safety and efficiency in the pharmaceutical store. It is a computer based system which helps the Pharmacist to improve inventory management, cost, medical safety etc.

The system allows the user to enter a manufacturing and expiry date for a particular product or drug during opening stock and sales transaction. The system will also give report showing the list of products expiry after a specified date before the product eventually expires. It also involves manual entry upon arrival of new batches of drugs and upon drug movement out of the pharmacy for a certain period, e.g. every month, the pharmacist may want to generate report for the movement of drugs in and out of the pharmacy, getting information about the drugs e.g. expiry date, date purchased, number of drug type left, location of a drug in the pharmacy.

At present, manual system is being utilized in the pharmacy. It requires the pharmacist to manually monitor each drug that is available in the pharmacy. This usually leads to mistakes as the workload of the pharmacist increases.

2. Why there is need to create a database for the project?

Ans: The main aim are the design and implementation of a pharmaceutical inventory database management system. The system was implemented by creating a database containing information about the stored medicines in the inventory, customers making transactions with the pharmaceutical trading company (which owns the inventory), medical suppliers, employees, payments, etc. The proposed system should help in manage inventory operations which include adding/updating employees' information, preparing sale and purchase invoices, generating reports, adding/updating customers and suppliers, tracking customer payments and checking expired medicines in order to be disposed. The system can be used to facilitate smooth workflow of sale and purchase operations and bring the advantages of having the most efficient control with minimal efforts.

3.What are benefit that you are expecting to get after implementing database in your project?

1. **Cost-effectiveness.** With the diversified set of automatic technologies, pharmacy software significantly decreases the number of extra working hours from your specialists. However, this is a long-term advantage that needs a substantial short-term investment first.
2. **Less paperwork.** Online pharmacy capabilities let you forget about the need to cope with numerous documents. Steadily, you can switch to an entire eCommerce module that enables executing completely contactless sales where the drugs are delivered to the doorstep of your clients directly.
3. **Internal integration of processes.** With pharmacy management software, you can synchronize the work between departments and stakeholders, including the back-office, sales teams, offline data flows, and many other processes.
4. **Improved client experience.** Starting from tracking the order history, you can offer pharmaceutical products to your customers more accurately. Furthermore, pharmacy management systems can link the information from insurance agencies and patient history from medical institutions. This data can boost your sales by connecting your drugs to the relevant client base category.
5. **Better inventory management.** The specialty pharmacy management software provides an easy-to-use interface to enhance resource allocation. This way, you can enjoy better control over your stock with more accurate invoicing and financial management. You can feel the improvements starting from order tracking by collecting data from other agencies, providing multi-location support, and reporting on what's going on in your store that can be updated anytime.

6. **Effective sales.** Each pharmaceutical product has its own record in the pharmacy management systems, including the available amount, typical client profile, and promotions available. All this information can help your salesmen do their job better and contribute to your business strategy efficiently.
7. **Elaborating your business strategy.** Outline your goals and expectations from the software. Define the weakest points that will become your top priority, be that inventory management or poor customer experience. Don't try to fix everything at once: create a plan and make each plan concentrated on one area only.
8. **Collect internal information.** Check the business strategy with your stakeholders to elaborate your insights and get the broader picture of your strengths and weaknesses. Collect everything in a separate document.
9. **Choose and hire a vendor.** Hire the development team that possesses the needed set of hard and soft skills you're comfortable with. Check the portfolio, tech stack, and communication quality before making a final choice.
10. **Pick a ready-made solution or start building a customized solution.** If your business needs match the functionality of the existing software, you can start its integration right away. Alternatively, the development team will create a custom service that unites the technologies needed. The choice is yours, depending on the budget, deadline, and expectations from the service.