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**Section: 6**



**grand pharm pharmacy**

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# **Introduction**

## Project Overview

The pharmacy database project aims to create a comprehensive database system for managing the operations of GrandFarm Pharmacy. The system will cover aspects such as medicine inventory management, customer information, prescription handling, and sales tracking.

## Project Scope

The scope of the project encompasses the design and implementation of a robust and scalable database system tailored for GrandFarm Pharmacy. The system will facilitate efficient management of medicines, prescriptions, customers, suppliers, and sales.

# Client Information

## Client Background

Grand Farm Pharmacy is a retail pharmacy business with a goal to modernize its operations through the implementation of a centralized database system. The client aims to enhance inventory management, streamline prescription handling, and improve overall customer service.

## Client Objectives

* Improve inventory management to optimize stock levels and reduce shortages.
* Enhance customer service by maintaining accurate customer and prescription records.
* Facilitate sales tracking and reporting for better business decision-making.

# Project Features and Functionalities

## Core Features

* **Medicine Management:**
  + Add, update, and remove medicines from the inventory.
  + Track medicine details such as name, manufacturer, expiry date, unit price, and quantity in stock.
* **Supplier Management:**
  + Record information about medicine suppliers.
  + Establish a link between suppliers and medicines.
* **Customer Management:**
  + Maintain customer details and prescription history.
  + Record customer information like name, address, contact number, and email.
* **Prescription Handling:**
  + Record and manage prescription information.
  + Link prescriptions to specific customers and include details such as prescribing doctor and issue date.
* **Sales Tracking:**
  + Monitor sales transactions.
  + Generate sales invoices and track total amounts.
* **Inventory Management:**
  + Track medicine quantities, purchases, and sales.
  + Implement alerts for low stock levels.

## Additional Features (if applicable)

* **User Authentication:**
  + Control access to the system through user authentication.
  + Define roles for staff members (e.g., admin, pharmacist).
* **Reporting:**
  + Generate reports on sales, inventory, and other relevant metrics.
  + Provide insights into business performance.

# Technology Stack

## Database Management System (DBMS)

The project will use MySQL as the primary database management system due to its reliability, scalability, and widespread use in similar applications.

## Programming Language

The system will be developed using Java for its versatility and extensive support for database interactions.

# Constraints and Assumptions

## Constraints

* The project will operate within the specified budget and timeline.
* The team assumes that the pharmacy staff will actively participate in providing necessary data for initial system setup.

## Assumptions

* Users at Grand Farm Pharmacy will have basic computer literacy.
* Adequate hardware and network infrastructure will be available to support the system.

# Conclusion

This Software Requirements Document outlines the scope, objectives, features, and technology stack for the pharmacy database project at Grand Farm Pharmacy. The successful implementation of this system is expected to optimize pharmacy operations and contribute to improved business performance.