**Pharmacy Management System**

Table of Contents

[Project Title: 2](#_Toc83248521)

[Aim of Project: 2](#_Toc83248522)

[Problem Statement: 2](#_Toc83248523)

[Limitations of Existing System 2](#_Toc83248524)

[Project Introduction 2](#_Toc83248525)

[Project Description 3](#_Toc83248526)

[Major Modules 3](#_Toc83248527)

[Super-User/Owner 3](#_Toc83248528)

[Admin/Employees 3](#_Toc83248529)

[User/Customers 3](#_Toc83248530)

[Minor Modules 4](#_Toc83248531)

[Inventory management: 4](#_Toc83248532)

[Product searching: 4](#_Toc83248533)

[Financial records management: 4](#_Toc83248534)

[Location-based suggestions: 4](#_Toc83248535)

[Price recommendations: 5](#_Toc83248536)

[Notifications: 5](#_Toc83248537)

[Reminder/Alerts: 5](#_Toc83248538)

[Order-tracking: 5](#_Toc83248539)

[Feedback: 5](#_Toc83248540)

[Live chat: 5](#_Toc83248541)

[FAQs: 5](#_Toc83248542)

[Automatic backup creations: 5](#_Toc83248543)

[Project Objectives 5](#_Toc83248544)

[Time Schedule/Gantt Chart: 6](#_Toc83248545)

# Project Title:

Pharmacy Management System

# Aim of Project:

The aim this project to automate small scale pharmacies by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same.

# Problem Statement:

There are various management systems in the market for stores and pharmacies but these systems are made for specific organizations. There is no generic management system which allow a smaller business to automate in a lower cost.

# Limitations of Existing System

There are various limitations of existing system which are mentioned below,

* Manual Organization of Store
* Paper-based record keeping
* Lack of Security for records
* Mistakes in financial calculations due to manual system
* Stores can’t keep their paper-based records for a long time
* Customers need to come physically for buying items
* Difficulty in reading complex hand-written prescriptions
* Time consumption in making receipts
* Manipulations in paper-based system can lead to frauds
* Time wastage in finding products from inventory

# Project Introduction

This project will create easiness for small scale pharmacies to manage their store and sell online to their customers. The system will be totally secure with password-protected facility and cloud based. It is basically an online platform which will have both facilities to manage online orders and in-store management. Whenever a new pharmacy will join this platform then a clone of this system will be provided to it with a subdomain to this project. Now any customer of this pharmacy can order online by using this subdomain. The pharmacy will have all admin rights and its customers will have user rights.

The customers or users of this system can directly visit the system’s domain and register themselves. If they know a specific pharmacy then they go to its specific subdomain, otherwise they can also find pharmacies on main app.

# Project Description

The system will have three major modules and various minor modules. If the pharmacy has single owner, then it will have no employee module.

## Major Modules

The major modules are super user (owner), admin (employees) and user (customers) panels.

### Super-User/Owner

The super-user is basically the owner of pharmacy who will purchase the subscription and will be allotted a subdomain on web-app. He will have following permissions

* The super user panel will supervise all the system including admins.
* He will have each and every permission in the system.
* He can access to all the records, admin activities and user activities.
* He can add new admin profiles in the system.
* He can choose which permissions for a admin.
* He can fix salaries of the employees.

### Admin/Employees

The admins are basically employees of pharmacy. An employee must have admin profile login credentials provided by superuser. A person may have more than one permission based on his/her employment role.

This module has following permissions.

* Inventory management
* Place and cancel order
* See consumer history on his store
* Respond to customer queries
* Check prescriptions manually
* Give custom discounts
* Order new stock manually
* Financial records management
* Contact with manufacturers.

### User/Customers

Finally, there are customer or users who can register themselves by visiting online web-app/mobile-app of this project. They have following permissions.

* A customer can access to available stock.
* Order desired stock by uploading a valid prescription.
* A user profile will keep record of all previous orders and spending.

The prescription will be approved by system automatically by system or by some admin manually and order will be confirmed and delivered.

## Minor Modules

These modules are given as follows.

Inventory management:It will keep record of all the new stock and sold stock. There will be option to add stock manually by:

* Writing quantity
* Brand name
* Generic name
* Manufacturer name
* Manufacturing date
* Expiry date
* Batch number
* Date and time of entry
* Date and time of sale
* Sold to customer name
* Purchase and sale price

When a certain quantity of stock left then by using AI the manufacturer will automatically receive new stock order.

Product searching:There will be a search bar in the top of software. Any user can use it to find required stock based on:

* Brand name
* Generic name
* Manufacturer name
* Manufacturing date
* Expiry date
* Batch number

Financial records management:It will keep record of all the financial matters like

* Total purchases
* Total sale
* Profit and loss
* Expenses
* Salaries
* Miscellaneous charges
* Sales of individual products as well as combined reports
* Generate a report of given time frame
* Track which product have more sale and which have not
* Directly connected with online banking APIs

Location-based suggestions:When a user/customer will login to his/her account. Then the software will automatically suggest nearest pharmacies based on his/her location via a popup. When clicked on anyone of these suggested pharmacies then he/she will be redirected to that store.

Price recommendations:When a user will go to a specific product page then in the end of that page. The system will recommend similar products with different prices from different pharmacies. The system will also be able to recommend different brands of same medicine with different prices.

Notifications:This module is specially designed for special tasks like:

* Alerting users on upcoming sales and discounts
* Updates
* Offers and other related events

The system will have a notification icon which will have a red dot when there is new notification. The user will also get notifications when he successfully places an order, when the order is delivered, when more delivery time is required, and finally to get feedback on his completed order.

Reminder/Alerts:This module is specially designed for alert tasks like:

* When an order is placed, an alert message is sent to relevant pharmacy.
* The order has to be fulfilled ASAP.
* Remain active until the order is placed.
* Send SMS/email alert to user about quick updates.

Order-tracking:This module is specially designed for special tasks like:

* Just like any courier service
* When pharmacy update an order detail, it generates a unique order ID.
* A user can use this unique id to track his parcel.
* Show tracking information in a user-friendly interface.

Feedback: This module is specially designed for special tasks like:

* Rating section of the respective pharmacy store
* Help new users/customers to take good decisions about buying medicines
* Showing old feedbacks of that respective pharmacy

Live chat:To allow users discuss their queries and problem live with a representative of a pharmacy.

FAQs:To answer frequently asked questions about the system and problems.

Automatic backup creations:To create a backup on local computers automatically after a set timeframe.

## Project Objectives

The objectives of this project are as follows:

* To grow small scale pharmacies.
* To eliminate paper-based manual system.
* To make finance records more secure.
* To reduce frauds due to manipulations in records.
* To reduce time-wastage in searching stock.
* To make sure correct drugs are sold according to a valid prescription.
* To generate automatic receipts and print them automatically if in store or send e-receipts to online customers.
* For providing convenience to customers in searching alternative products easily.
* For customers to make better decisions based on other’s feedbacks.

# Time Schedule/Gantt Chart:

