

Advanced E – Care Pharmacy System

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Abstract

The pharmacy management system is built in order to replace manual based system to digital system. Here system is expected to be efficient, useful and affordable on implementing tasks that is order by the pharmacy manager.

It will help the pharmacist to connect the salt with the medicines and symptoms. This refers the pharmacy management system project highly minimize time and resource by which, searching the medicine and you can get the data in quickest time. And almost the resources are wise used since most actions are done on the pharmacy system. Some of the resources minimized include paper, manpower and related things. The other thing is for storing data's in secure way.

A summarized list of drugs dispensed to patient can be viewed for monitoring purposes. Also PMS will be able to generate report on the list of drugs dispensed in the polyclinic for a given time period. And there is a message alert for the user if the stock holding quantity reaches a low level. Thus, the pharmacist will need to replenish the drugs.

The system has another advanced features of tpa policy department that has been incorporated in the project that is usually not in normal working system . In this system we have tried to achieve a feature that lets the customer directly use its tpa policy U-id card no in the payment process which consults the company of the policy provider and if the approval of the payment comes through the company the customer or patient is not bound to pay.

Introduction

In order to exploit the ICT in health care system, E-care PHARMACY MANAGEMENT SYSTEM is being build. Pharmacy management system is robust, integrated technology. Pharmacy management system deals with the maintenance of drugs and consumables in the pharmacy unit. There is a message alert for the user if the stock holding quantity reaches a low level .The set-up of this pharmacy management system will ensure availability of sufficient quantity of drugs and consumable materials for the patient and it will also help the new pharmacist to get trained in his field. It helps in getting tie medicines in result of salts and symptoms input. The system has another advanced features of tpa policy department that has been incorporated in the project that is usually not in normal working system . In this system we

have tried to achieve a feature that lets the customer directly use its tpa policy uid card no in the payment process which consults the company of the policy provider and if the approval of the payment comes through the company the customer or pateint is not bound to pay.

Literature Survey

Halemid-

It is an indigenous leading hospital management system that has connected electronic health record and provides insight full action able and focus data and it automates day-to-day

Features

1. Case management
2. CRM and sales dashboard
3. Appointment management
4. Patient registration
5. Billing system
6. Accident and emergency care

Disadvantages

1. It requires technical guidance to use
2. It does not have inbuilt via-policy payment options as well as symptom analysis, salt based medicine search.
3. It is costly

Horizon ERP

It is a billing focus software with complete account and inventory module. It is fast in its working and reliable it is generally used by forms or businesses in pharmacies that deals with daily invoices and deals in a very large number. Typically used by distributors manufacturers retailers and sellers of medicine.

Features :-

1. Order tracking
2. Invoicing
3. Payment handling
4. Account, banking integration.

Disadvantages

1. It is focused more on building operations rather than whole hospital management.
2. It does not give features like appointment management, patient registration etc.
3. Inbuilt via-policy payment transfer options are not incorporated as well as symptom analysis salt Based medicine search.
4. It is also very expensive.

New LeafRX

It is a well-built Pharmacy software that helps automate the major businesses in pharmacy management. Encompasses operations, financial ,reporting and inventory. Help spending less time at the server.

Features :-

1. E-prescribing
2. Inventory management
3. Pill imaging, automatic refilling.

Disadvantages

1. Does not have features of order tracking, banking integration, patient registration, appointment management.
2. It has no incorporated features of symptom analysis, salt based medicine search, and inbuilt policy payment options.

Reasearch Gap

E-Pharmacy or E-prescribing and billing management softwares are new to the world but have developed tremendously for the last decade. The MMA act included this to offer a set of uniform standards for appropriate implementation and use. In 2009 Medicare rolled out and incentive program for the ones that was successful using any pharmacy software. But overtime a lot of drawbacks have also been revealed through proper analysis. Dropdown menus ,screen design and automatic filling functions have been seen as an originator of errors and hence it becomes a threat to the Patient Safety as well . Delay in time of arrival of a prescriptions can be the reason of patients discontent as the patient will arrive at the pharmacy before the order has been placed. Moreover when e-prescriptions are transmitted not at once there are delays that have a direct impact on the workflow of the pharmacy system, further if many are sent together then transmittal creates potential tensions in the workplace and may be the reason of distorted transmittal of prescriptions or transmitted to different unwanted destinations. Finally unclear or

unpredictable prescription requires pharmacy personnels to contact the provider for the right information, hence delaying the workflow.

Lack of formal training in such systems have also come out as an another reason of the failure to use such heavily design software programs.

Moreover the other limitations are the cost included with use, startup, maintenance ,and transaction fees although large companies negotiate on lower transaction fees but still undertake such fees. A lot of current system also have not incorporated various features which has been very necessary to provide greater customer satisfaction i.e. symptom analysis of medicines ,salt based search of medicines ,stock management and alternative payment methods through TPA UID nos.

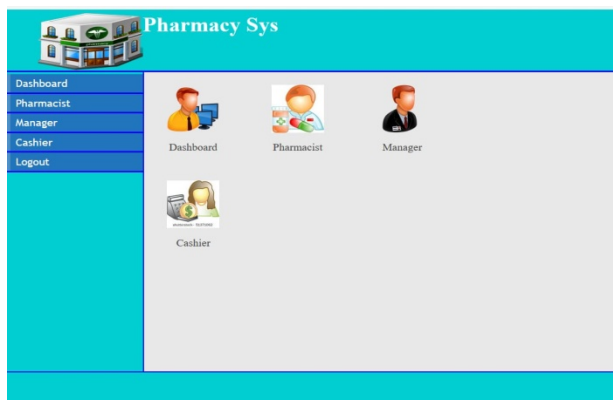
IMPLEMENTATION AND DESIGN

In this project MySQL is used to create database and tables are normalized up to 3NF. The description of table used in the project is given below

- **LOGIN MODULE** - In the application login is the main page where the users can login with their credentials and update the path they are dealing with. In this module the individual will login with their credentials.



- **ADMIN DASHBOARD** - In this module the admin can view and update the pharmacist manager or cashier working in the pharmacy .He can view the credentials and add new staff.He can even manage stock of medicine .



MANAGER DASHBOARD - In the module the manager can perform his task by using the following features.

View invoices- he/she can view the total amount of payment held till day, month, etc.

View prescription- He/she can view all prescription.

Manage stock- He/she can perform all the same task as performed by pharmacist in stock. He can add or view stock containing name of drug, category,description, status ,date ,etc.



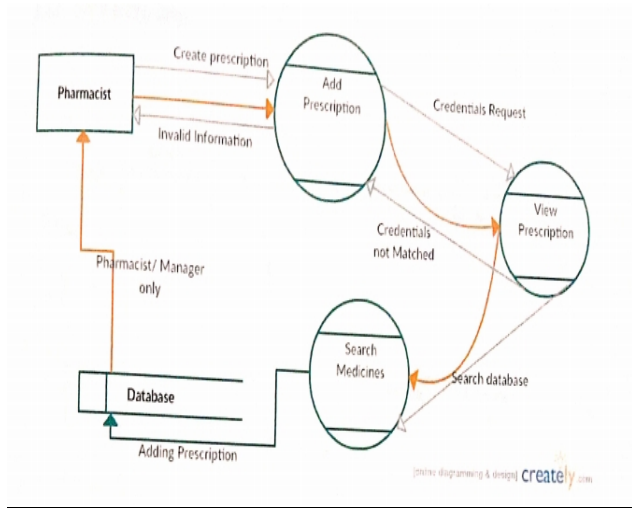
PHARMACIST STOCK – He/she can view and add medicines. Add medicines containing drug name, category, description, manufacturing company, supplier, quantity, unit cost.

PRESCRIPTION - He she can create a new prescription for customers.the prescription contains name of medicines quality, name, phone number, address, customer ID, age, strength of medicine, dose per day.

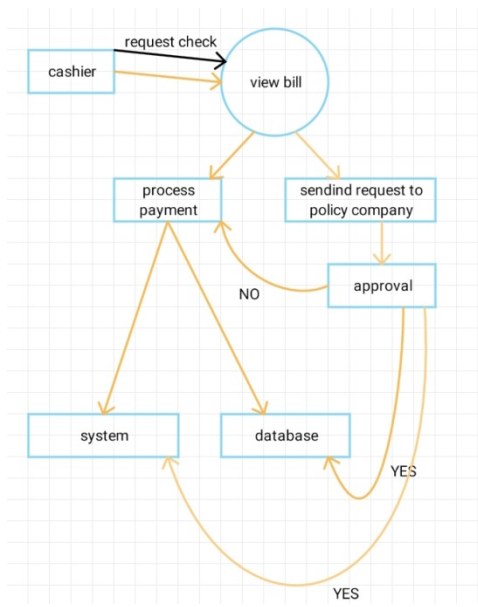
CASHIER DASHBOARD - In the module the pharmacist can perform his task by using following features .

DATA DIAGRAM

DATA FLOW DIAGRAM



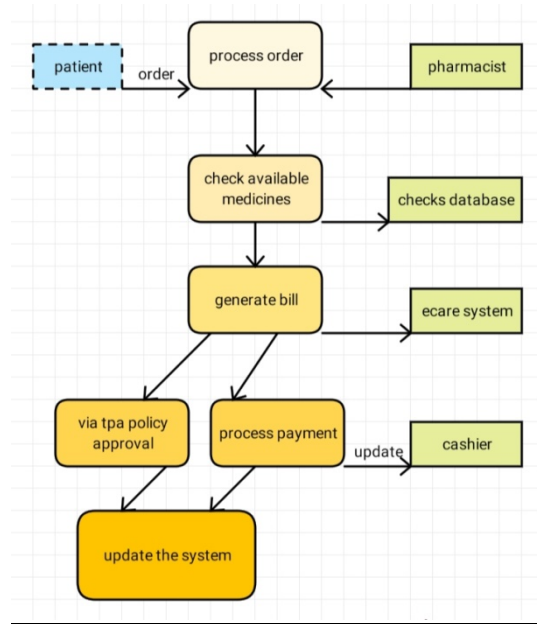
DFD OF ADMINISTRATOR



DFD OF CASHIER

DFD OF PHARMACIST

USE CASE DIAGRAM



RESULT

pharmacy management system provides functions on identify medication usages instructions, minimize human error in medication safety, facilitate accessibility of drugs information and information management among employees providing optimal drugs Movement in pharmacy unit, enable reports with in significantly short period of time, despite simultaneous usage of database for the purpose stated above.

Since we added an additional feature of tpa policy. . In this system we have tried to achieve a feature that lets the customer directly use its tpa policy U-id card no in the payment process which consults the company of the policy provider and if the approval of the payment comes through the company the customer or patient is not bound to pay.

CONCLUSION

With the development of offer specific and potent synthetic drugs, the emphasis of pharmacist's responsibility has moved substantially towards the utilization of scientific knowledge in the proper use of modern medicines and protection of public against danger's that are inherent in their use.

Pharmacist are employed in regulatory control and drug management, community pharmacy, hospital pharmacy, the pharmaceutical industry, academic activities, training of other health workers, and research. In all these fields, their aim is to ensure optimum drug therapy, both by contributing to preparation, supply and control of medicines and associated products, and by providing information and advice to those who prescribe or use pharmaceutical products.

FUTURE SCOPE

The pharmacy management system provides functions on identify medication usages instruction, minimize human errors in medication safety, facilitated accessibility of drugs information and information management among employees, providing optimal drugs movement in pharmacy unit, enables report with in significantly short period of time.

The system will solve the problem of the current system by minimizing time wastage and reduce resources which simply changed manual based system to computerized system.

There are functions done by the system such as: store the necessary information of drugs, prepare bill for medicine, give week report, easily searching of medicine, working in two languages, update, delete and save data of medicine.

The scope of this project is limited to the activities of a pharmaceutical store which includes the improving health outcomes, reduce hospital and long-term care admissions, enhance access and care in the state and surrounding communities and ensuring best use of resource, the use of a computer based management system for improving the efficiency of a pharmacy is needed and it is an essential part of any modern continuously evolving society.

The system will not be able to handle drug prescription drug to drug interaction. The system will not be able to handle contradiction and polypharmacy in a prescription, this implies that these services will be manually completed by the pharmacist. The project can be made even faster in case the file size is larger by using for the optimised and bottom for searching and viewing records. Mechanism can be devised such that after reading the system and after visiting certain webpages it can provide the weight of the management system automatically. The management system can be evolved dynamically by adding new concept and relations while visiting web pages. The project can be easily made online by using internet and using www for the files to search data. New feature can be added in the product to add more refined searching algorithm.

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