INSTITUTE FOR ADVANCED
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Documentation On

"MEDICAL STORE MANAGEMENT SYSTEM"

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Project Guide

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1. Introduction

In day today life medical field is having great importance. Every day we found crowd at the medical store. The seller alone has to do duty of providing not only the appropriate medicines but also in time. In traditional systems medical shop records were handled by pen and paper. So it become very difficult to handle the stock because of this many times customer not get the medicines on time because of unavailability of those medicines.

This project is used mainly for medical stores to maintain the details of medical store such as stock, medicines and staff information. This medical shop management software is so designed as to ease the work load of medical shop professionals. The main feature includes add, update, delete medicines, staff and also control stock and give stock alert message.

Document Purpose

The main objective of the Medical Store Management System is to manage the details of Medical Shop, Stocks, Medicines and Staff. It manages all the information about Medical Shop, Medicine, Staff. This Medical Store Management System is developed to provide the following services:

Enhance Business Processes:

To be able manage medicine stocks so that customer will not go with empty hand. All the required medicines will be available in shop for sales.

Minimum Stock Message:

This system's key functionality is that it helps in generating message when there is less stock available.

Problem Statement

Existing system for a society is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. It is hard to manage all the medical shop details with pen and paper. It gets really hard to maintain the records and then keep track of past records. Hence this system is proposed to overcome the flaws of the existing system and giving power to the medical shop owner so that he/she will be able to manage the medical shop data easily.

Project Scope

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- Medial Shops: This includes study on how the daily work actually is being done, process involved and opportunity that exist for improvement.
- J2EE Technology used for the development of the application.
- Shop owner as well as the society's staff will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the admin to add, delete, update owners.
- The owner will add staffs.
- The staff can add and track medicines stock.

Overall Description

Project Perspective:

2.1.1 Existing system function:

Existing system for a medical store management system is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. For keeping medicines record manually it took lots of time. For updating details also require lots of time.

III. PROPOSED SYSTEM

Project functionality:

Medical Store Management System provides the features for admin, owner and staff. It include several functionalities describes as below:

Administrator Manager:

The admin will able to add different shops also update and delete shops. He/She can also see the details of shops.

Owner Management:

It provides facility to add, update, delete and view the staff who are working for their shop. We can view their details and also update it.

Staff Management:

The staff can add, update, delete medicines. Keep track of medicines stock.

Generating Alert Message:

Staff will get message if medicine stock contain less medicines than specified limit.

Benefits of Medical Store Management System

- This medical store management solution is fully functional and flexible.
- It is very easy to use.
- This medical management system helps to manage the stocks of medicines.
- This system gives the minimum stock alert message.

Users and Characteristics:

Admin :

- Add shop.
- Delete shop
- Update shop
- View details of medical shop
- View list of shops.

Staff :

- Add medicines
- Delete medicines
- Update medicines
- View medicine details
- Can see stock alert message

Owner :

- Add staff
- Update staff details
- Delete staff

Operating Environment:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 8GB

OS: Windows 8.1, Linux 6

Database: Oracle 11g

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 2GB

OS: Windows 7, Linux

Design and Implementation Constraints:

- The application will use JavaScript, JQuery and CSS as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Society Management system is a web-based application, internet connection must be established.
- The Medical Store Management System will be used on PCs and will function via internet or intranet in any web browser.

Specific Requirement

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. Then they need to go to login page. This page asks the users a email and a password.
- After being authenticated by correct email and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 7, Linux

Web Browser:
The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the medical store information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

System Design

Use Case Diagram

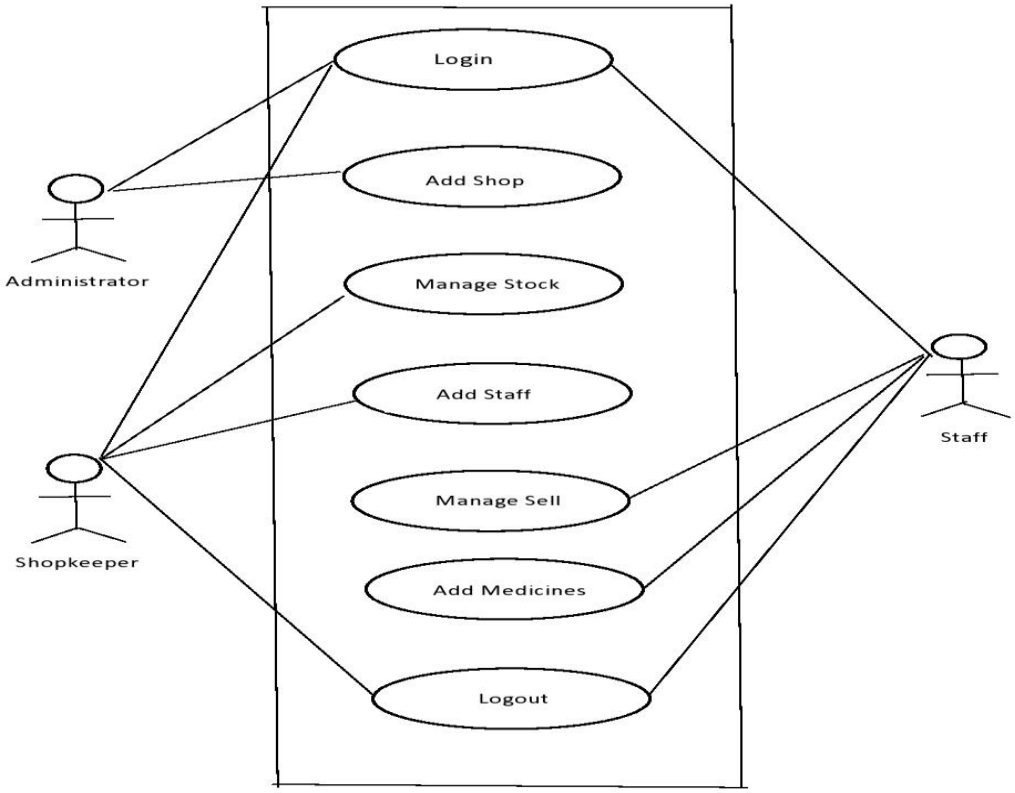

Figure 10: Use Case Diagram

ER Diagram

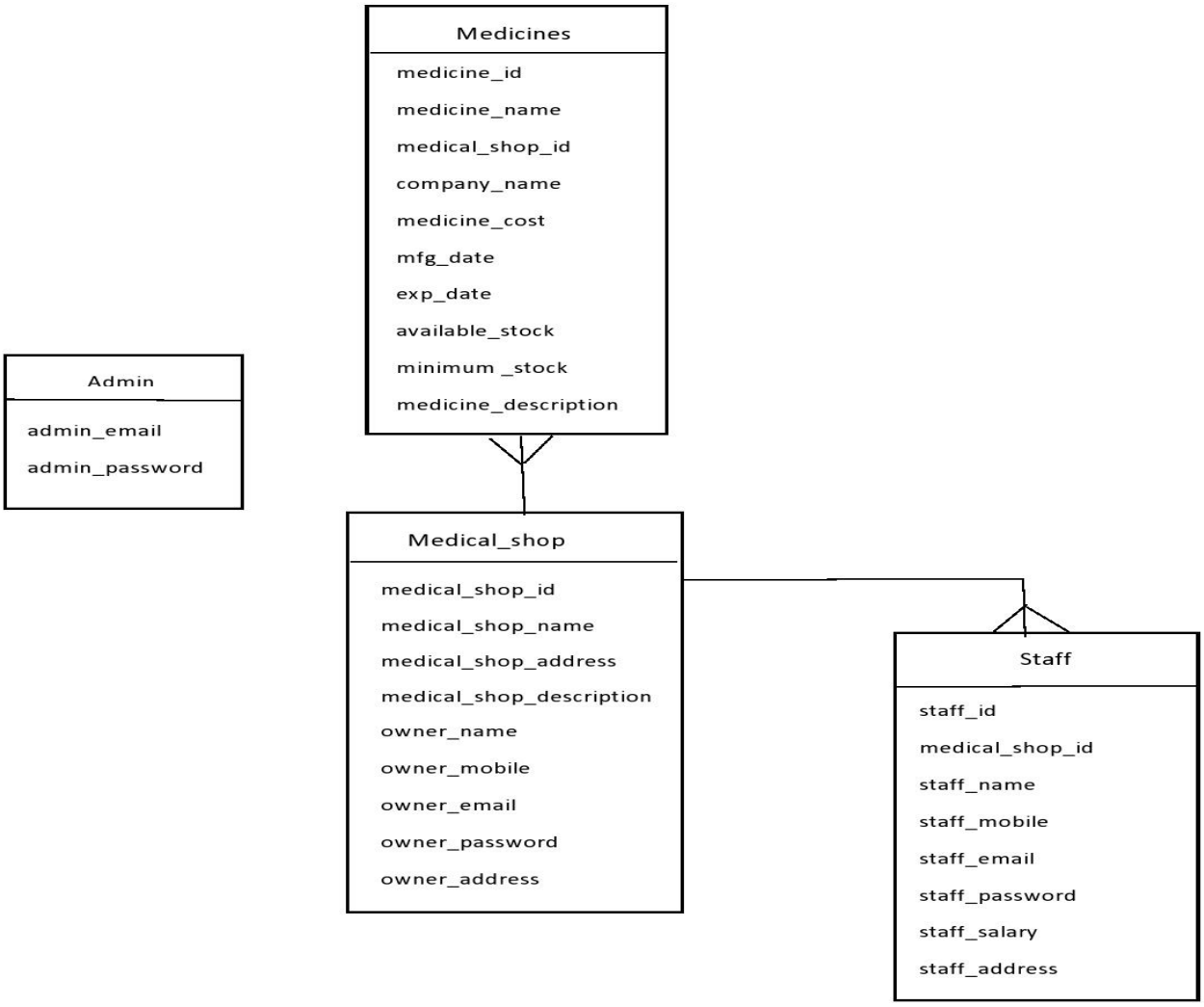

Figure. ER-Diagram

Table Structure

Medical shop :

Field	Type	Null	Key	Default	Extra
medical_shop_id	int(11)	NO	PRI	NULL	Auto_increment
medical_shop_address	varchar(50)	YES		NULL	
medical_shop_description	varchar(50)	YES		NULL	
medical_shop_name	varchar(40)	YES	UNI	NULL	
owner_address	varchar(50)	YES		NULL	
owner_email	varchar(30)	YES	UNI	NULL	
owner_mobile	varchar(10)	YES		NULL	
owner_name	varchar(50)	YES		NULL	
owner_password	varchar(20)	YES	UNI	NULL	

Medicines:

Field	Type	Null	Key	Default	Extra
medicine_id	int(11)	NO	PRI	NULL	Auto_increment
available_stock	int(11)	NO		NULL	
company_name	varchar(100)	YES	UNI	NULL	
exp_date	date	YES		NULL	
medicine_cost	double	YES		NULL	
medicine_description	varchar(100)	YES		NULL	
medicine_name	varchar(100)	YES		NULL	
mfg_date	date	YES		NULL	
minimum_stock	int(11)	NO		NULL	
medical_shop_id	int(11)	NO	MUL	NULL	

Staff:

Field	Type	Null	Key	Default	Extra
staff_id	int(11)	NO	PRI	NULL	Auto_increment
staff_address	varchar(50)	YES		NULL	
staff_email	varchar(30)	YES	UNI	NULL	
staff_mobile	varchar(10)	YES		NULL	
staff_name	varchar(50)	YES		NULL	
staff_password	varchar(20)	YES	UNI	NULL	
staff_salary	double	YES		NULL	
medical_shop_id	int(11)	NO	MUL	NULL	

Administrator:

Field	Type	Null	Key	Default	Extra
administrator_id	int(11)	NO	PRI	NULL	Auto_increment
administrator_email	varchar(30)	YES	UNI	NULL	
administrator_mobile	varchar(10)	YES		NULL	
administrator_name	varchar(50)	YES		NULL	
administrator_password	varchar(20)	YES	UNI	NULL	

Conclusion

Medical Store Management system allows user to perform stock management, medicines management, staff management. User get the information about stocks early. So user cannot face problem for handling stocks. So Medical Store Management software is very needy for Medical Store. This software help them to maintain daily records in computer.

Future Scope

This project can be enhanced further by adding billing functionality so staff need not to update medicines stock filling manual data in form. The software is flexible enough to be modified and implemented as per future requirements. Also bin future it can be enhanced by adding message and email alerts.

7.0 References

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[2] Mahatme MS, Dakhale GN, Hiware SK, Shinde AT, Salve AM Department of Pharmacology, Indira Gandhi Government Medical College, Nagpur, Maharashtra, India "Medical Store Management: An Integrated Economic Analysis of a Tertiary Care Hospital in Central India" JYP.

[3] MS Mahatme, GN Dakhale, SK Hiware, AT Shinde, and AM Salve "Medical Store Management :An Integrated Economic Analysis of a Tertiary Care Hospital in Central India J Young Pharm. 2021 Apr-Jun; 4(2):114-118.

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