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"Digital Medicine Expiry Tracker"

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Abstract
Nowadays medicine plays more important role in our day to day life. Utilization of medicine before they expired become mandatory. In our society large amount of medicine are expired, So Make use of medicine becomes essential before they expire. The main intend is to circulate the medicine to government, private hospitals to minimum prize and it is also helpful for normal users to search for the particular medicine which is not available in nearby medical. It also search the medicine Age-group wise so it is very helpful. It also aims to find out the medicine which are expired soon. Minimum amount of Discount are provided to the consumer who are in search of medicine .This application is not only useful for medicals but also for normal users.

Keywords:
HTML, CSS, XML, Medical

I. INTRODUCTION

In this paper the portal has 3 login first is admin login the admin is the authorized person .The admin have rights to approve the authorized medicals only and also view and delete the particular medical if there is any kind of mis-behaviour by the medical then it should be deleted by admin and the second login is for the medical and there is registration for the medical after that login done if the admin is allowed then only medical should be add the medicine details like Name, Brand name, quantity, prize, discount etc are included .The medical have rights to perform different operations like view medicine, delete medicine, update the records etc done all these operations with the help of database. With the use of java compareTo() function, It compares system date to medicine expiry date and display the medicine which are yet to be expire. The third login is for users it include normal people, hospital, clinic etc, for user there is sign-up page and after that it will ask for registration after that user search medicine as per their need and save the money for user. Our project also have a filter facility to search medicine age-groupwise, and offers are included too.

II. APPLICATION SYSTEM ARCHITECTURE

In this system there are Three modules to integrate the system

Module:

- User
- Admin
- Medical

Admin Module:

In this module admin is responsible to add the authorized medicals only.

Medical Module:

First medical registration is done further login is done if admin allow them . Medicine details should be uploaded by the medical. After that medicine details like (Brand name, quantity ,manufacturing date, expiry date. and discount)are taken as input to perform operation like view medicine, update medicine ,delete medicine etc.

User Module:
User can be a normal person, hospitals, clinics, etc,If user is new then go for Registration/sign-up otherwise user can login. User may search the availability of the particular medicine. It shows the location of Medical where the searched medicine is available.
A filter facility option like search medicine age-group-wise.

III.LITATURE SURVAY:
1.Ishu Tomar, "A smart expiry date remainder system for medicine":
In this paper, an expiry date reminder system is proposed which will notify the users about the expiry dates of the medicines, along with few additional details via wireless communication. It also aims to help the pharmacists to keep track of what medicines are going to be expired soon. (2021) [1].

2.RohitSathye, "Mandar Surve,Medicine Delivering Smart Autonomous Vehicle":
In this paper, we have focused on the aspect of medicine delivery in a particular ward or a room of the hospital assuming that there are four beds in that particular room. Thus, a tracking system is complete for the medicine intake. Hence, the patient is connected with his relatives, doctor, nurse, etc. (2020) [2].

3.R. T. Yugue, A. C. A. Maximiano, "Innovation on Expired Patent Medicines in the Brazilian Pharmaceutical Industry":
According to this paper, our purpose was to identify factors that influence the investment in innovation on patent-expired medicines (PEM) by pharmaceutical laboratories installed in Brazil. We also identified that one of the main difficulties is related to the required professional capabilities for producing the innovations. A case of success is presented as an example of investment in incremental innovation on PEM in Brazil. (2018) [3].

4.En Peng," Expired Medicine Product Management System": The use of an expired product may cause harm to its designated target. If the product is for human consumption, e.g., medicine, the result can be fatal. While most people can check the expiration date easily before using the product, it is very difficult for a visually impaired or a totally blind person to do so independently. (2012) [4]..

IV. EXISTING SYSTEM
The existing medical Store system is time consuming and requires more man power to function well. Secondly the scope of offline medical store is limited to local area and is available for fixed timing. All the data management involving product availability, searching, are done manually which indeed are very time consuming. Existing system is very complicated to keep the track of all registers and handle them manually. As well as this work is time consuming & also expensive in this system report work may be not accurate and not fastest. To avoid all these limitations and make the working more accurately the system needs to be computerized. There are some Drawbacks of the existing system:

- •Time consuming
- •More expensive
- •Searching problem
- •Maintains problem of all registers
- •Less accuracy

V. PROPOSED SYSTEM
The proposed system of Digital Medicine Expiry Tracker web application there are basically three modules mainly Admin module, Medical Module and User module.

- •Admin have rights to add medical names and medical person in application under different categories.
- •In user module user can access information of different medicines provided by medical under different categories in Panel itself.
- •Proposed system is a software web application which avoids more manual hours that need to spend in record keeping and generating reports.
- •This web application keeps the data in a centralized way which is available to all the users simultaneously.

VI. PROJECT CONCEPT & WORKING
The proposed system will completely revolutionize the medical industry. Searching of medicine and medicine stock can be maintained by a single click. The medicine placed can be easily tracked at any time. We can search easily any record.
The system is user friendly and anyone having computer knowledge can handle it easily. Maintaining stock, Supplier information, Customer information are easy.
In this system, Admin has the official powers to control the flow of the data from one part of the system to the other. He has the power to manipulate the access of the users to the data.
System allows the admin to add medicals, view all medicals or delete the medicals. After admin approval medicals can login in this system.
System allows the Medical to add the medicines with medicine details. (Name, Brand Name, Expiry Date, Discount, Quantity). System allows the medicals to update the record of the existing medicines. allows the medicals to delete the record of the existing medicines. To check manufacturing, expiry date, number of medicines, price for each item. Then the staff will update the medicine stock will be kept in database

User can Register. After registration one will log within the system because the operator of the system either on the behalf of the user. System allows the users to search the nearby expired medicine with medicine details. System allows the users to search the medicines with the availability with Medicine Details.
In this system there are three modules to integrate the system.

1.Admin Module

•Admin need to login by providing the login credentials to access the below given admin modules.
•Approve Medical
•View al Medical
•Delete Medical

2.User Module (Normal People, Hospital, Clinic):

•Register
•Login
•Search nearby expired medicine:
a. Show Medicine Details,
b. Rates
c. Discount
d. Location
e Contact Details.

3. Medicals:

•Register
•All details
a. Location
b. Login (After Admin Approval)
•Add Medicine
a. Name
b. Brand Name
c. Quantity
d. Expiry Date
e. Discount
•View Medicine
•Delete Medicine
•Update Medicine
• Update expired Medicine price & Discount

Database-MySQL: We use Database because Databases let us work with large amounts of data efficiently. They make updating data easy and reliable, and they help to ensure accuracy. They offer security features to control access to information, and they help us avoid redundancy. A database is a structure that stores information in an organized, consistent, reliable, and searchable way.
Front-end-XML: is used to describe data. The XML standard is a flexible way to create information formats and electronically share structured data via the public internet, as well as via corporate networks

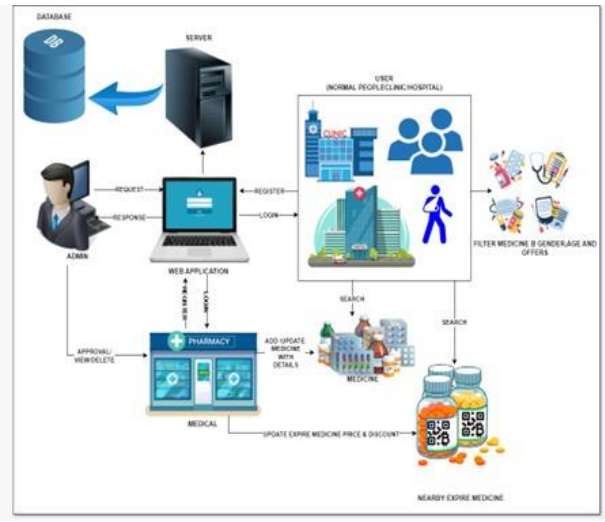

Fig1.2 System architecture

The figure 1.2 says that the proposed system will completely revolutionize the medical industry. Searching of medicine and medicine stock can be maintained by a single click. The medicine placed can be easily tracked at any time. In this system, Admin has the official powers to control the flow of the data from one part of the system to the other. Admin need to login by providing the login credentials to access the below given admin modules. System allows the admin to add medicals, view all medicals or delete the medicals. After admin approval medicals can login in this system. System allows the Medical to add the medicines with medicine details. (Name, Brand Name, Expiry Date, Discount, Quantity).

Area of Project:

Web development

Features:

a) Easy to handle
b) Easy to Access
c) User-friendly

VIII. DESIGN CONCEPT

The proposed system Digital Medicine Expiry Tracker is a web application there are basically three modules mainly Admin module, Medical module and User module. Admin have rights to add only authorized medicals in application. Medical module adds details of medicine such as, Mfg. date , Expiry Date ,Register number ,Price ,Discount, etc. In medical module it can also see the medicine which are nearby expiry and which are not expired yet in two different tabs. In user module user can see the details of medicine under different categories like, nearby expiry, age-group-wise, nearby available, discount, etc. Proposed system is a web based application which avoids more manual hours that need to spend in record keeping of medicine. This application keeps the data in a centralized way which is available to all the users simultaneously.

The following modules are designed for the application:

1. **Login and Registration:**

This phase involves login & registration for medicals. Medical can login only if admin gives permission. Already existing medicals can login but if it is new then they have to register first.

2. **Admin Module**

In admin module, It will checked for authorized medicals and give permission for login.

3. **User Module**

User can view medicines according to the specific categories like age-group-wise, nearby available, discount, nearby expire, etc.

4. **Medical Module:**

It will maintain the record of medicine as per individual medical. Also view the medicine that are nearby expiry

VII. BLOCK DIAGRAM:

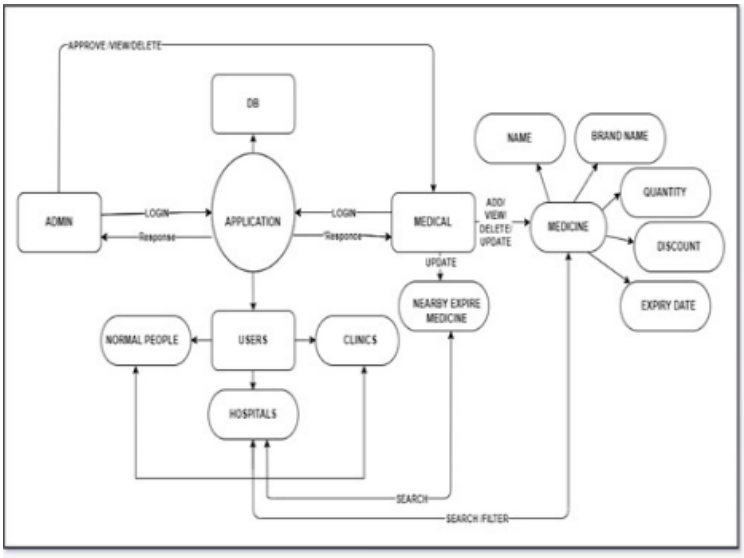

Fig-1.1 Block diagram of Implement system

IX. ADVANTAGE OF THIS PROJECT:

1. Proper utilization of medicine before they expire
2. Convenient for user to know exact location of medical.
3. Access to authorized medicals only so security is maintained.

X. LIMITATION OF PROJECT:

1.If delay to update record of the medicine that are expire soon then we have to face wastage of medicine.

2.Requires Internet connection

XI.APPLICATIONS:

1. This system can be used by normal users, hospitals ,clinics
2. It also useful for Wellness forever and pharmaceutical medical.

XI. EXPERIMENTAL RESULT

"The digital medicine expiry tracker" is the best application for the medicals because chemist face a lot of problem if generic medicine are expired since there is no replacement for it ,and also a problem like a customer demand for costly medicine but at the time of purchasing customer is not ready to buy that particular medicine .In such a case the chemist is in trouble so with help of our application chemist upload the stock of the medicine before they expire so medicine can sell out easily .It also helpful at user side if the coast of medicine is high means is not affordable to user then the discount facility is also helpful for the user. In short the application experiment is helpful at both side means user also fulfil the requirements of medicine at discount price and chemist also sell their own stock which is at nearby to expire.

XIV.FUTURE SCOPE

1.The scope of this application is vast because it includes a database. Database have capability to maintain large amount of data in effective manner, so medicine data will be secure and easily maintain.

2.In Future It is very helpful to search a particular medicine details like age-group-wise, date-wise and discount-wise, due to that easily bifurcation of medicine is done so it is time saving technique.

3.The Medicals have options to upload the medicine data like Near by expire medicine and not to be nearby so it very easy to manage medicine data.

VI. CONCLUSION

We proposed a much helpful application not only for normal users but also for hospitals. The application provides simple and effective distribution technique to manages the records of the medicine which is nearby to expiry and circulate to needed hospitals is main objective of our system, so basically the medicine yet to expire soon instead of disposing them proper utilization of medicine is necessary .

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