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Mechanism for Prescribing Drug in Hospitals and its Substitute Availability in Nearby Hospitals of Area / City

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Abstract: Mechanism for prescribing drug in hospitals and its substitute availability in nearby hospitals of area / city. It has many benefits for those prescribing and dispensing medicines, and also for the maintenance of medical records. Generic substitution of brand prescription is an accepted practice in many parts of the world and mainly done for the economic purpose. This project can be implemented on the basis of application in which the medicines can be bought by the patients in low prices having same contents as that of medicine prescribed by doctors. This system can bring a lot of change in the medical field. Being in the 21st century it has become very necessary to hold up with the latest technologies. As far as medical services are concerned, Use of generic medicine lacks at a point. Since, the use of branded medicine is at large scale it becomes difficult for some people to use them. It is beneficial for people to use generic medicines as it is highly cost effective. Many of the people cannot afford the medicines prescribed by doctor because it is expensive. It is the matter of fact that many of deaths occur due to unaffordable medicines.

Keywords: Generic medicines, Health System, Substitution, Symptoms

I. INTRODUCTION

Today the world is verge on Global Warming. Huge amount of changes in the environment is due to climate change and extreme weather events are increasing the risk of health threats, such as dengue fever. Every citizen in this country visits a doctor or hospital in his lifetime for different health-related reasons. In order to treat the patient, doctors prescribe drug which may be generic or unique which is purchased from a medical shop. It is often seen that patient has to visit several medical shops to fetch the prescribed medicine as he is unaware of different options for a drug available to him. Findings showed how prescription drugs plays vital role in saving lives, keeping people healthy and improving quality of life, and that rapidly rising cost place an economic burden on consumers, employers and public programs. Doctor gets commission for prescribing drugs of pharmacy companies. They also have tie ups with certain medical shop, so they get shares for recommending that shop and prescribing drugs of a particular brand, which is available in their shops. Generic drugs are mostly government supply, so prescribing and selling them doesn't provide any extra income to doctors or Pharmacist.

The concept of online search is not widely accepted in our country. As there are some people who do not trust on online shopping for medicines. But this will change a view on such topics. The website shows the medicines with its contents and also the substitutes of the same medicines. No significant difference was observed in reported adverse effects between generic and branded drug users. The use of substitute medicines, compared to their branded counterparts, has the potential to substantially reduce out-of-pocket expenditure on drugs for patient with chronic diseases. Generic substitute of brand prescription is an accepted practice in many parts of the world, and this is often done for economic reasons. This application can be newer value-based method for controlling drugs spending uses alternative payment models. This convention can bring a lot of change in digital world. The world is heading towards advanced technology and digital aspects. Therefore the mode we provide the source digitally the more we contribute for digital India. It will be easier to search medicine and its composition at home, people doesn't need to go to stores to search for their respective medicines

Objectives: The main objectives of this system are listed below as follows:

- 1. To search medicines by its contents.
- 2. To provide user the similar medicine that matches the contents.
- 3. To suggest the user if he/she is suffering from any kind of disease.
- 4. In addition, this will also guide the user with generated route towards the medical.



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II. LITERATURE SURVEY

Existing System:

There are plenty of websites that will guide you through the medicines and the delivery options but here this website will eventually guide the user or the management toward the medicine by searching for it and this will also suggests the other medicines that are interrelated with each other by its contents. The websites that are over the air will not sub strum the user in the basis of symptoms, where they don't actually provide the location and map guidance. Where they are just delivery sites.

Proposed System:

Now talking about this website this actually helps the user to search the medicine with the interrelated contents and will also show the path where the medicine is available. And if the user is going through any disease this website is capable of showing the results as per generated by the questions, the algorithm will ask offering some symptoms options and then further guide the use with the concluded solution. This website is implemented in the form of web application with web view. Whereas the entire database will be stored separately, over the air if we grind this website for launching.

III. SYSTEM REQUIREMENTS

• **EXI ASP .NET and .NET Framework:** ASP.NET is the successor of Microsoft ASP (Active Server Pages), but it is developed to be more powerful than ASP. It can be used to build dynamic websites and web-based distributed applications, respond to data submitted by the user from the HTML form, and access to the data or database, then return the results to the browser. ASP.NET is a development platform provided by .NET Framework and features a completely object-oriented programming model, which includes an event-driven, control-based architecture that encourages code encapsulation and reuse.

• **SQL 2016 SERVER DATABASE:** Microsoft SQL Server is a database management and analysis system for e-commerce, line-of-business, and data warehousing solutions, it is a powerful and easy-to-operate back-end database management system, increasingly favored by the majority of data-base users [5]. Plenty of development tools are provided with SQL Server inter-face. SQL means relational database management system, originally developed by three companies, Microsoft, Sybase and Ashton-Tate jointly. The first version was OS/2, launched in 1988. After the release of Windows NT, Microsoft and Sybase SQL Server developers parted ways, Microsoft moved SQL Server to Windows NT system, and focused on the development and promotion of SQL Server Windows NT version.

• **ADO .NET:** The .NET Framework possesses its own data access technology. ADO.NET is a programming model to create a standard system oriented for distributed data sharing based applications. It is an extension of the ADO (ActiveX Data Objects) technology and development, and superior to ADO technology in interoperability, maintainability, programmability and performance. ADO.NET contains many classes. Programmers use these classes to get the data. ADO.NET is most commonly used by programmers to access and modify the data stored in relational database systems (RDBMS), though it can also access data in non-relational sources.





Fig 1.2: Diagram of REGISTRATION DETAILS

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Fig 1.1: Flow Diagram of MEDISYS system.

The data flow diagram is used to depict the logical model of the system, and describes an integral module of the system and the relationship of each part, and the flow of in-formation and data conversion. Firstly, through the product management function in the background system, the administrator saves product information into databases. Then, when a customer is registered as a site member, he/she can select and buy goods. After the completion of the selection, choice of payment method and shipping method, members submit an order. Lastly, administrators deals with every new order issued by the user.

V. FUTURE SCOPE

This project can also be added to smart card attendance system so that the controller gets the detail of absentee of a faculty and also can send message to doctor about the absence of faculty and alert another faculty to take position of that absented faculty. This flow control mechanism can be modified and can also be used in other fields such as chemical mixing.

The devices used in our project can be replaced by any alternative or better mechanism can be used for pressing and the proposed work can be interfaced with keypad for better results. In future, the system can be extended to a distributed wireless network system. The flow control mechanism proposed can be modified and used in other various fields. Furthermore, with the development of embedded hardware, more complex embedded coding can be done. The sending and receiving speed of a security alert message is high, so this can be used to give more kinds of applications in the future.

VI. CONCLUSION

The project mentioned Mechanism for prescribing drug in hospitals and its substitute availability in nearby hospitals of area/city is now implemented successfully. The system has been developed no errors and at the same time it is more efficient and less time consuming. The purpose of this project was to develop a website for purchasing medicines from the medical and also search for its content. This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html & CSS, usage of responsive templates, and management of database using MS SQL Server. The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We've learned how to test the features that are in our project. This project is now completely ready which can be further implemented in any of the nearby medicals or pharmaceuticals selling medicines by simple modifications.



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