

# THE NEAREST MEDICAL SHOP WHERE THE MEDICINE IS ACCESSIBLE USING NodeJS, ReactJS, MongoDB & Material UI

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**Abstract:** The project was designed to make the Internet as easy as possible. In today's world, the Internet is becoming more and more essential. The project aims to make it as simple as possible for users to use in the medical field. It is also designed to help the users navigate through the various features of the medical shop. The main objective of the Web App is to help the users find the correct medicine for their needs. We will use the data collected by the medical shop to make informed decisions regarding the availability of medicines. This Web App will allow the users to access the data from the medical shop easily. One can also order medicines online if one cannot visit a medical shop.

**Keywords:** NodeJS, ReactJS, ExpressJS, MongoDB Database, Material UI

## I. INTRODUCTION

Today, web applications are playing a massive role in our lives. They are helping us to accomplish various tasks and activities, and they can reduce our human effort. Numerous conferences and reports talk about the potential of web applications.

Usually, one goes to a medical store to buy medicines immediately. However, there are many times when the medicine is not available at the store. One has to visit several medical stores to find the right medicine.

The only way to get the medicine is to go to the medical store most of the time. This is a very inefficient and time-consuming process, preventing the patient from getting the proper medicine. To help ease the process of medicine procurement, an online Web-App Med locator has been created.

A search box will provide the user with a list of medicines that they can look for. The system will then check the medicine availability at the nearby medical store. Once the medicine availability is checked, the map shows the location of the medical store where the medicine is available.

The database used by the system is maintained to store the details about the various items that the user will need to complete their search.

### 1.1 Aims and Objectives:

#### ➤ Online Medical Search:

With the help of the search box provided, users can search for medicines online available in their nearby location. It will start giving suggestions as soon as you type the name of a medicine. If the suggestion doesn't come up, you can still search for medicine by entering a proper name.

#### ➤ Modification of data:

Data will regularly be modified in the database. Availability is the main focus of our project. So, our system will fetch the data about the availability of the medicines in medical stores and will be modified in real-time.

#### ➤ Medical Store Locator:

As soon as the user enters the name of the medicine, our application will locate all the nearby medical stores of the user where the entered medicine is available. Maps are used to find the medical store.

#### ➤ Ordering of medicine:

Users can order some standard medicine from our web application. Users can order items by clicking add to cart after going to cart, users order it to their address.

#### ➤ Doctor consultancy:

Users can consult a doctor where they can detail the doctor and user get the contact details, and his /her expertise.

## II. LITERATURE SURVEY

### MEDICAL SHOP MANAGEMENT SYSTEM MEDMAPS:

In paper [1], R. Nishanthi and A.Thirugsamnanabandhamurthy proposes a framework to assist clinical experts with buying medications on the web. The undertaking's principal objective is to foster a web-based application that will assist clients with

working on their day-to-day routines. This application will permit them to deal with different errands connected with the deals and acquisition of medications. The venture's fundamental thought is to mechanize the administration of the clinical store by fostering an application that will permit the clients to look for and purchase the medications from the store. The framework will be completely robotized, and it will permit the clients to deal with their different undertakings connected with the deals and acquisition of meds. It will likewise give a virtual exhibit of different kinds of medication.

### **MOBILE APPLICATION FOR FINDING, MANAGING, AND COMMERCIALIZING PHARMACY**

In paper [2] Nurfarahin Natasya Binti Hamid, Toni Anwar, the most common way of finding medical stores isn't quite so natural as viewing any different stores, mainly to find the medical store that is selling the specific clinical item or the meds that clients are attempting to find. The outcome will be a tedious misuse of cash, assuming they needed to drive all away to some unacceptable medical store. That is where the possibility of this MedMaps: Mobile Application for finding, Managing, and commercializing medical stores is produced from. This application likewise gives medical stores a stage to popularize their store and advance their items. Regarding the public clients, they will likewise deal with their pill utilization consumption by setting a caution that will continuously remind them when to consume the tablets.

### **USING NODE.JS TO BUILD HIGH SPEED AND SCALABLE BACKEND DATABASE SERVER**

In Paper [3], The main thing with a web server is its capacity to deal with different solicitations and client meetings productively. This has a ton to do with the programming language used to compose backend scripts. Node.js is a server-side stage mostly utilized for ongoing applications due to its occasion-driven engineering and non-blocking I/O. Node.js is viewed as multiple times quicker in I/O tasks than servers that utilize string-driven design. Program execution in various strings requires more memory and calculation. This paper presents the system utilizing node.js to make a profoundly versatile and high-speed backend data set the server for web designers additionally as application designers. Node.js is a great instrument if you would like some very live association and ongoing outcomes. It is prepared to rapidly convey information to/from a web server. It likewise exhibits the utilization of MySQL data sets, for example, Mongo dB in the proposed project work over other customary data sets like MySQL. Consequently, execution of server-side prearranging dialects like PHP and Python were taken into thought while contrasting Node.js.

### **BCRYPT AND BLOWFISH ALGORITHM TO ENCRYPT PASSWORDS**

A few applications send passwords over decoded associations, making them defenseless to capture attempts. To take advantage of this weakness, an aggressor should be appropriately situated to focus on the casualty's organization traffic. This sort of situation typically happens when a client (clients) speaks with the server over a shaky public association Wi-Fi, or an enterprise organization or home network that is imparted to a compromised PC. Thus, putting away passwords in plaintext should never be a choice. All things considered, we might want to supply a one-way street to security by hashing passwords. Notwithstanding, we likewise investigated that hashing alone isn't adequate to alleviate more included assaults like rainbow tables. An improved answer for store passwords is to include salt in the hashing system: adding extra irregular information to the contribution of a hashing capacity that makes every secret word hash one of a kind. The ideal verification stage would incorporate hashing and salting, consistently. Bcrypt was planned and created by Niels Provos and David Mazières upheld the Blowfish figure. bcrypt in which, b for Blowfish and sepulcher for the name of the hashing work used by the UNIX secret phrase framework. Blowfish is a symmetric encryption calculation created by Bruce Schneier to supplant Data Encryption Standard (DES). Blowfish is a 16-round Feistel figure. Its block size is 64-cycle also, and key sizes range from 32 to 448 pieces.

## **III. PROPOSED SYSTEM**

Our venture is essentially an internet-based medical store finder. It is a web application that will take medication names as info and, question the [www.healthos.co](http://www.healthos.co) API which will bring drugs back with their depictions. These names will be displayed to clients furthermore, clients can choose one medication. The chosen medication will be searched through an information base and will give to different medical stores which will have that medication. The medical store can see the graphical report of search scores of various meds.

The following are the future scope for the project:

- **Emergency Delivery:**

In case of an emergency when the user orders the medicine, the delivery partner will be able to deliver the medicine in minimal time.

- **Support Assistant:**

We can add the section of support assistant in which the problems regarding the website will resolve by the support assistant, If a medical store owner or user faces any problem in payment, or stock update, one can contact for human interaction.

- **E-mail Alert:**

When a user or medical store registers on the platform, then an email will be as a unique login id and your hashed password will be stored in a database. But sometimes it may happen that you don't remember the password, our system provides a link to reset the password to a registered email id. Thus, one can easily recover their account and change the password.

#### FLOW CHART

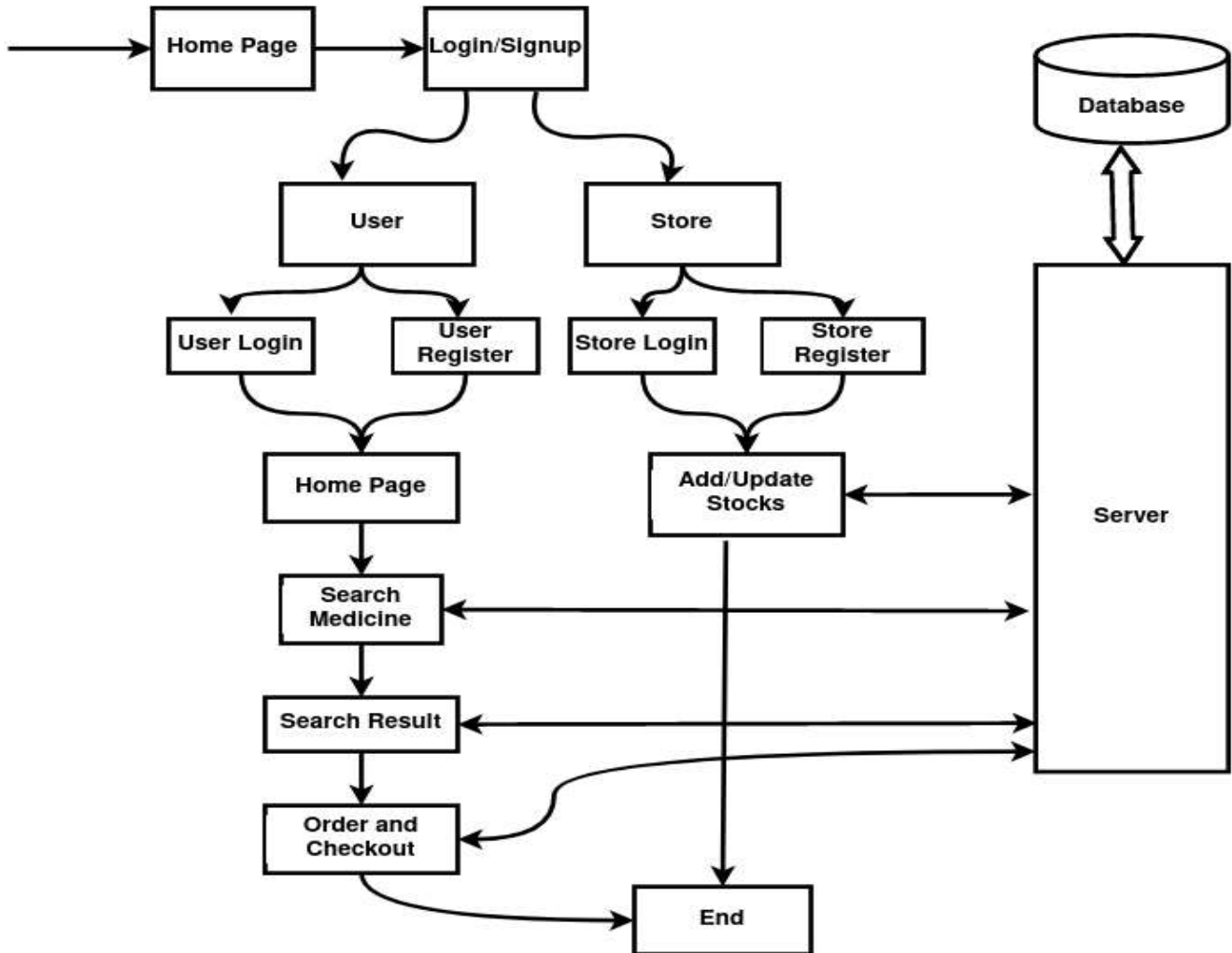


Fig. 3.1 Application Flow Diagram

#### IV. HARDWARE AND SOFTWARE REQUIREMENTS:

##### SOFTWARE REQUIRED

- **Operating System:** Linux, Ubuntu, Mac, Windows XP,7, 8, 8.1, 10
- **Front End :** ReactJS, HTML, CSS, Bootstrap
- **Back End :** NodeJS, MongoDB

##### HARDWARE REQUIRED

- **Processor:** Pentium IV or Above
- **RAM:** 2GB or above
- **Hard Disk:** 50GB or above
- **Input Devices:** Keyboard, Mouse
- **Output Devices:** Monitor

#### V. METHODOLOGY

- At the point when a client looks through any medication in the Med locator platform, then, at that point, results from the Med locator stage will be displayed to clients in the input dropdown.

- If the client chooses any medicine from the dropdown, the following outcome page will contain every one of the medical stores which will have that medication in their stock.

- On the off chance that information on medication is absent in the dropdown rundown of medicine then the client can straightforwardly look through the medication by squeezing enter and the stage will show each medication matching the name of that medication. Presently, clients can choose the medication as indicated by the medication proportion and producer. In the wake of choosing a medication, the next page will contain every one of the medical stores which will have that medication in their stock.
- Users can click any medical store and see the map from their location medical stores.

## VI. CONCLUSION

The system shows the user the medicine available in the nearby medical store thus making the job easy for the user. Even the stores can maintain their logs which is one of the best things. Reports are maintained for the medical store thus making them available with the analysis. The system can be further modified for a large dataset and thus can be used in real time.



Fig.6.1 searching for medicine on the Med locator Platform



Fig. 6.2 list of medicines that match with input medicine

## REFERENCES

1. Nilesh kumar Maurya, Pratik Jadhav, Krishnoprasad Das, "Medical Store Locator", International Research Journal of Engineering and Technology (IRJET) – Volume: 7, Issue: 04- April-2020.
2. R. Nishanthi III MCA, prof. A. Thirugnanasambandhamurthy, "Deterministic Online Medicine Purchasing for Geo Located Shops", Adhiparasakthi Engineering College, Melmaruvathur published in (IJLTET),2016
3. Nurfarahin Natasya Binti Hamid, Toni Anwar, "The MedMaps apps: Mobile application for finding, managing and commercialize pharmacy", Department of Computer Science, Faculty of Computing, University Technology Malaysia, Skudai, Johor, 2017
4. S. L. Bangare, S. Gupta, M. Dalal, A. Inamdar, "Using Node.js to Build High Speed and Scalable Backend Database Server", Department of Information Technology, (IJRAT) Special Issue National Conference "NCPCI-2016".
5. Lidong Wang, Chery and Ann Alexander, "Medical Applications and Healthcare Based on Cloud Computing" International Journal of Cloud Computing and Services Science (IJCLOSER), ISSN: 2089-3337, Vol.2, No.4, August 2014, pp. 217-225.
6. Lidong Wang, Chery and Ann Alexander, "Medical Applications and Healthcare Based on Cloud Computing" International Journal of Cloud Computing and Services Science (IJ CLOSER), ISSN: 2089-3337, Vol.2, No.4, August 2014, pp. 217-225.
7. S. Nirmala Sugirtha Rajini and E. Mercy Beulah, "Cloud-Based Architecture For Healthcare System", Asian Journal of Microbiology, Biotechnology & Environmental Sciences, Vol 18, No. 4, pp. 1017-1018, 2016
8. H. Jemal, Z. Kechaou, M. Ben Ayed and A. M. Alimi, "Cloud computing and mobile devices based system for healthcare application," 2015 IEEE International Symposium on Technology and Society (ISTAS), Dublin, 2015, pp. 1-5
9. V. Casola, A. Castiglione, K. R. Choo, and C. Esposito, "Healthcare-Related Data in the Cloud: Challenges and Opportunities," in IEEE Cloud Computing, vol. 3, no. 6, pp. 10-14, 2016.
10. A. Nirabi and S. A. Hameed, "Mobile Cloud Computing For Emergency Healthcare Model: Framework," 2018 7th International Conference on Computer and Communication Engineering (ICCCCE), Kuala Lumpur, 2018, pp. 375-379.