Generic Medicine System Using ML

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Abstract : The Medicine Generic App is a cutting-edge mobile application designed to empower users with information about generic medications. With the ever-increasing cost of healthcare and prescription drugs, this app serves as a valuable tool to help consumers make informed decisions about their medication choices. The Medicine Generic App aims to promote generic drug usage, reduce healthcare costs, and improve medication management for users. By offering comprehensive information and price transparency, this app empowers individuals to make informed decisions about their healthcare, ultimately leading to better health outcomes and cost savings. This abstract summarizes the key features and benefits of the Medicine Generic App, highlighting its potential to positively impact healthcare consumers and promote the use of cost-effective generic medication.

Keywords: Healthcloud, security, privacy, cloud computing, Machine Learning Model, Virtual networking.

The preface of colorful technologies has redounded to colorful tremendous changes in all aspects of mortal life. One similar field which has been developing the most is the healthcare sector. Not only the private, but also the government has started taking measures in perfecting their champaign care services and give them at free or low cost to the people. But, the entire development process is being hindered by colorful obstacles. Consider the illustration of the COVID epidemic which literally created a strain on the healthcare sector, where numerous people had to lose their lives just because of the lack of drugs or deficit of oxygen beds in the hospitals. One similar reason behind this entire script was the absence of an effective system for managing services by the government. Also, this redounded to rise in colorful malpractices like drug hoarding and black marketing. Medicine hoarding is the practice wherein a particular drug is grazed which results to hyping up in price. Although general drugs bring much lower than the ingrained drugs, the malpractice redounded to rise in demand and deficit of drugs in the request. Taking advantage of the adding demand, drug black marketing rose up wherein common people paid up to 10 times advanced the original price of drugs. These events not only redounded to fiscal loss but also to loss of innocent mortal lives The operation of Cloud Computing technology can prove to be helpful in icing that similar events could be avoided. As the name says, the Cloud Grounded Generic Medicine System uses the mentioned technology for handling drug force to government hospitals by the government registered suppliers and can also be used for handling colorful healthcare related services and insure no interruptions or interference do in the public healthcare sector. The paper explains about the how the system can help annihilate related malpractices and give effective and systematized results to the druggies. This section II gives a brief idea about the being systems being in use, section III discusses about the working of the system, section IV and V addresses about the methodologies being used and about the perpetration of the system independently and eventually the attained result and conclusion drawn from the below mentioned points.

I. RELATED WORK

To understand about the being systems being in used, colorful point checks and literature checks were conducted which gave a brief idea about the styles used to manage the public health care sector. Depending on colorful factors, variations in ways was largely observed in the being technologies around the world. The first case study discusses about the methodology used by Sarvajanic Aspatal, a government sanitarium positioned in pastoral Karnataka. The vill is located long hauls down from the main megacity and has lower viscosity of population. The below government sanitarium uses the traditional system of storing details about cases and drugs in registers or files. The data is substantially handwritten and is stored in special apartments or cupboards. A person is appointed by the sanitarium whose responsibility is to manage the data and also recoup the lines or registers from the room. But, the above traditional system is suitable only for regions which have veritably lower population viscosity. Also, cases of lines missing were observed and pitfalls of vandalization in data can not be avoided. Second case study is about the Micropro Software used by drug suppliers or original agency in Maharashtra, India. The software is relatively useful for storing purchase related data and also reacquiring it at the same time. It's substantially used by the suppliers who have a turn- over of around 3 to 4 lakh Rupees. Also, the stored data can be used during duty returns, GST, medication of balance wastes and chancing out average deals or turn over. The system, still deals only in storing data and is n't at each involved in drug force operation. For drugs, a salesman is involved whose absence can hamper the entire sale process; performing to incurring in fiscal loss. Third case is the exploration study of ePharmacare system erected using Design Science Research by Luís Velez Lapão , Miguel Mira da Silva and João Gregório of University of Lisbon, Portugal. The system was used for habitual complaint operation, which was common back also. The system set up out that the druggists spent their 50 of the time interacting with the cases and the system ever succeeded in reducing costs and also helped in complaint control. still, developing and enforcing similar online services requires trained and motivated professionals and further exploration and redefining is needed in perfecting the effectiveness of the system. The fourth case study is about thee- Aushadhi system used by Government of

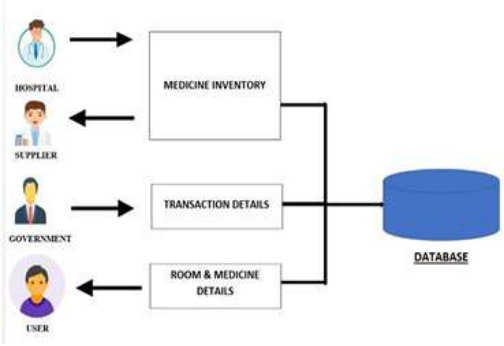
Rajasthan which is a complete web grounded operation used for managing distribution of medicines, surgicals and sutures to colorful quarter medicine storages, medical sodalities, hospitals where the medicines are issued to separate case. Under the action of" National Health Mission – Free Drug Service", it has reached around 15 countries and is still going on. Although, the system may have been successful in managing drug force, it lacks translucency in the entire process and is confined to certain druggies only. Also, common people can not know about drug vacuity in a particular sanitarium which makes the system a bit suspicious.

II. PROPOSED SYSTEM

As mentioned in Section II, the below being systems or methodologies were being in use, although they demanded in some way or the other. The proposed Cloud Grounded Generic Medicine System manages to exclude all the downsides of the being systems. Data security with the help of pall is achieved which eliminates the debit of traditional system of storing data in pastoral areas. The system also makes it easy for government hospitals to buy general drugs and check stock details. The system is relatively easy to use and shows advanced effectiveness with the help of Cloud Computing Technology as compared to other approach. Also, the common person will be suitable to search available apartments or any general drug in a particular sanitarium which is way briskly than rather applying under Right To Information Act; which might take weeks or indeed months. The Cloud Grounded Generic Medicine System consists of 4 modules videlicet the Government Panel, the Supplier Panel, the Hospital Panel and the stoner Panel. Each panel except the stoner Panel has a specific username and word access only after which the concerned functionary will be suitable to pierce the system. Once the stoner logs in to the Government Panel, the government stoner will have access to features like tracking druggies who penetrated the system, the deals taking place between the government hospitals and suppliers, list of registered government hospitals, authorized suppliers and government officers using the system. This data will be generated in form of reports which would help government in decision- making process. Also, the government will be suitable to read feedbacks and resolve issues regarding the health care sector. Not only government will be suitable to view data but also will be suitable to register new hospitals and suppliers. The authorized supplier logs in with the credentials, the supplier will be suitable to add new drug into their force which will further go for trade. The supplier will be suitable to check sale history done with the sanitarium and manage stock details by streamlining stock details or deleting one. The authorized supplier thereby has a major task in the system to insure that no sanitarium is deprived of general drugs and hence regulate the vacuity of general drugs. The system proves to be relatively useful for government hospitals as the system succeeds in establishing contact with the authorized suppliers; wherein direct purchase of needed general drugs will be done. The sanitarium will have payment options of paying online or offline and bill will be generated independently. The bill hence will remain saved in the original device which will be easy to recoup. Not only purchase of drugs, hospitals will be suitable to add apartments and also register new cases and allocate vacant apartments to the cases. The stoner section is one similar unique which makes the system effective than other being systems. Then, stoner will be suitable to get details regarding vacuity of apartments in a particular government sanitarium or whether a particular essential general drug is available or not. The stoner will also be suitable to complain to government directly in case if they face any bad experience or observe poor quality in the services handed by the government sanitarium. With this, the pall computing grounded system aims to reduce burden by proving to be an effective result. The following armature helps in easy understanding of the working of the system. As shown, the icons represent the actors who'll have access to system videlicet the Sanitarium, supplier, the government director and the common person i.e. the stoner. The Hospital will be suitable to buy general drug from suppliers which will be stored by them in the form of" force" or available stock. The force block is the general representation of deals taking place between suppliers and Sanitarium. All the sale related details will be examined by government director; also hospitals and suppliers will be suitable to pierce their once deals done. The stoner will be suitable to search and know about available drugs and room details of a particular government sanitarium; all this huge quantum of data will be stored and handled by the database; which plays a veritably pivotal part in data operation and give effective and quick results to the specified actor.

III. METHODOLOGY

he following architecture helps in easy understanding of the working of the system. As shown, the icons represent the actors who will have access to system namely the Hospital, supplier, the government administrator and the common person i.e. the user. The Hospital will be able to purchase generic medicine from suppliers which will be stored by them in the form of "inventory" or available stock. The Inventory block is the general representation of transactions taking place between suppliers and Hospital. All the transaction related details will be examined by government administrator; also hospitals and suppliers will be able to access their past transactions done. The user will be able to search and know about available medicines and room details of a particular



government hospital; all this huge amount of data will be stored and handled by the database; which plays a very crucial role in data management and provide efficient and quick results to the specified actor.

IV. IMPLEMENTATION

For successful perpetration of the system, certain prequisites are needed to be fulfilled. To design interactive and stoner-friendly interfaces, a suitable textbook editor and knowledge of web technologies like HTML, CSS, JavaScript and introductory understanding of AJAX is needed; whereas for backend, knowledge of database languages like MySQL is needed and in order to establish connectivity of webpages with the database, one can use fabrics or any language like PHP, Java etc. The system has been enforced using following way 1. Designing of webpages This is the first step wherein webpages are designed as per the features which will be handed to all druggies by the system. The design should be stoner-friendly in a way similar that common people without any specific training would also be suitable to use the system and hence save their time of travelling to the concerned sanitarium or office and enquire for details which they need the most. 2. Designing and Connection of Database Once the webpages and database designing is done, with the help of fabrics or any suitable language, connection of webpages with the database can be established. 3. Collection and Storage of Data For any stoner, be it government, sanitarium, supplier or any common person, certain information is demanded to be collected which will help them allow access the system and also the data can be used for logical or security purposes. 4. furnishing Credentials for penetrating the System As the system will correspond of large and nonpublic data, there may be threat of abuse of data. So, in order to insure that data does n't get stolen, certain druggies will be handed credentials so that not only the concerned stoner's data gets secured but also the system remains . 5. Designing of Use Cases To ensure that the system achieves the desired goals, certain use cases can be designed which can explain relationship between the user and system and depict the high-level overview of relationships between use cases. 6. Testing and fixing errors: Once the system is built, it is essential to find out whether the system satisfies all the expected output as per the designed use case and in case of any errors or bugs found during the process, proper debugging is required to be done in order to avoid any inconvenience during the usage of system.

V. RESULT

Using cloud computing technology and other related technologies which will be used for implementation, output would be generated as per request made by any to system. For government, results will be generated in form of tabular reports which can be used for decision-making process or to find out areas where health care services can be improved. The hospital section will be able to purchase generic medicines from authorized, registered suppliers and bills will also be generated which will be the proof of transaction being completed. Registered suppliers will be able to update stock and add new medicines in their inventory and for common users, details will be available which will help achieve the system's aim of transparency.

Figure 1. App Interface

These is app interface form where user or admin are able to login through credentials. User and admin can login with Id and password if forget the details they can login again through email.

Figure 2. Admin Login

Admin login page allows us to create account with the email id and password and also get the option of forget password.

Figure 3. Patient Login

Figure 4. Hospital Adding

Here the admin can add the information for adding the doctor and hospital. Various details of doctor are added like number ,address,speciality and time for availability. Various details of hospital are added like number ,address,medicine and time for availability.

Figure 5. medicine details

These is patient login interface from where user can login through email id and password. If user is new he can register as new user.

Figure 6. prediction

Disease Prediction is a Machine Learning based system which primarily works according to the symptoms given by a user. The disease is predicted using algorithms and comparison of the datasets with the symptoms provided by the user.

VI. CONCLUSION

The Cloud Based Generic Medicine System comes to be an efficient alternative to the currently existing systems being in use. The system aims to eradicate illegal hoarding of medicines and black marketing by ensuring transparency in the entire system processes. The main intention of the system is to ensure that no person would be ever deprived of medicine or any other services provided by the public healthcare sector and contribute to development of the public sector and the nation.

VII . REFERENCE

1.International Journal of Computer Applications (0975–8887) Volume 118–No. 9, May 2015
2. Akash Borate, Ketan Bhapkar, Darpan Sharma. ” Android Based Fuzzy Inference System to Control the Fan Speed”. Journal of Harmonized Research in Engineering 2(1), pp. 69-74, 2014
3.https://play.google.com/store/apps/category/MEDICAL Accessed on April 25, 2015
4. Amit M. Farkade, Sneha R. Kaware. ” The Android-A Widely Growing Mobile Operating System With its Mobile based Applications”. International Journal of Computer Science and Mobile Applications, Vol. 3, Issue. 1, pp. 39-45, January 2015
5. Moncrieff S., Venkatesh S., West G.” A Framework for the design of privacy preserving pervasive healthcare”, Pro ceedings of the IEEE International Conference on Multimedia and Expo (ICME), 2009.