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Healthcare Services with Third Vendor Consultation on Web.

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ABSTRACT

In recent days the healthcare services are consulted through web, hence the efficient consulting framework is required to optimize the system. The regular or familiar healthcare issues can be consulted through online by the doctors with the patients. Sometimes if you come across with the same type of problems, you can able to consult the doctors about your health problems or for the nearest ones and follow their prescriptions, but it is not advisable for better healthcare services. So, the doctor with patient will be connected through the third vendor consultation using web with less cost. Using this web application, patients will be able to fill the online form in few seconds before entering to the virtual office room. It will also enable you to upload your lab results such as x-ray copies, health history etc which can be viewed by your referred doctors. Hence in this paper we are proposing a new framework for patient and doctor with third vendor consulting services on web for healthcare community.

Keywords: Healthcare, X-ray, Virtual office, Patient, Doctor

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INTRODUCTION

In older days we consult doctors for simple issues like fever, headache, dehydration, etc. If patient goes to hospital also they need to wait for more time. To overcome this, the healthcare management will help us to consult the patient through online. The patient can also consult the doctor by fixing time in to it. This web application is also used to upload the patient's results as X-ray(CT scan, MRI scan) and health history. By this, the doctor can view the patient's results.

This web application is much authenticated through patient id. The patient, doctor, third vendor have their own user id and password into it. Where the patient' problems can be viewed by the doctor and also the third vendor. With the help of the third vendor only we can able to communicate to the patient and the doctor.

The patient need to fill all the details which appears on the web page once they login. Based on that only, the doctor can able to consult that patient. The patient's and doctor's id is stored in the database. Based on the database only we can able to get the data of the patient and also the doctor [1]. After registering in web also the patient can able to cancel the order also. The hospitals & health care providers, service to help us to accelerate the market growth while lowering technology costs and capital expenditure.

A Brief overview of Healthcare Services

The Division of Healthcare Services provides access and oversight to the full range of appropriate health care services to all eligible hospitals [2]. These services include but are not limited to hospitals, physicians, pharmacy, dental, vision, durable medical equipment, and transportation.

Types of healthcare services

There are various types of healthcare services are existing, they are Dental health services, Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) services, HIV/AIDS care, American Indian health services, Pregnant care, Fever and Dehydration.

Dental Healthcare Services

Those with routine dental checkups may view it as a way of maintaining good oral health, but there are others who only consider it in emergency situations. Then there are those who simply seek access to it for quick fixes or professional advice. It's viewed in different ways, depending on the situation, but its main purpose is to optimize oral care for a healthier family [3].

Medicaid Dental Coverage

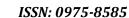
It is a type ofoptional service for adults; dental care is required for most Medicaid eligible individuals under age of twenty one, as a component of the early and periodic screening, diagnostic and treatment benefit.

National Maternal and Child Oral Health Resource Centre

It supports the health professional program administrators, educators, policymakers, and others with the goal of improving oral health services for infants, children, adolescents, and their families [4].

EPSDT services

The Early and Periodic Screening, Diagnostic and Treatment benefit provides comprehensive and preventive health care services for children under age the twenty one, who are enrolled in Medicaid. EPSDT is key to ensuring that children and adolescents receive appropriate preventive, dental, mental health, and developmental, and specialty services.





EPSDT - The Association of third vendor administrators of the Interstate Compact on Adoption and Medical Assistance Provides factsheets regarding EPSDT for professionals and parents. Links to the Medicaid site regarding EPSDT overview, benefits, and State agency responsibilities are also listed.

EPSDT & Title V Collaboration to Improve Child Health - The health resources and services third vendor, Maternal and Child Health Offers information about how EPSDT works with public health, families, managed care organizations, pediatricians, and other health providers [5].

Medicaid Early and Periodic Screening, Diagnostic, and Treatment Benefit - It Centres for Medicare and Medicaid Services Offers information on the Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) service, Medicaid's comprehensive and preventive child health program for individuals under age 21. EPSDT includes periodic screening, vision, dental, and hearing services.

American Indian Health services

AmericanIndian health servicescommitted to empowering our community delivering accessible, socially responsive, and culturally appropriate health care. We are proud to serve people of all ethnicities through our framework of the traditional circle of physical, social, emotional and spiritual well-being [6]. Our clients are cared for in an atmosphere that respects individuality and confidentiality. Please come by and visit our clinic to see how our services may best fit the needs of you and your family. It provides information on Federal health services available to American Indians and Alaska Natives.

The Healthcare for HIV/AIDS

This type of healthcare service provides an impact of AIDS, social media tools, information on Federal resources, and links to other organizations providing information and resources related to the HIV/AIDS epidemic.

HIV/AIDS Bureau - The Ryan White CARE Act provides health care for people with HIV by filling gaps in care faced by those with low-incomes and little or no insurance. HRSA's HIV/AIDS Bureau third vendor administrate the program through hundreds of grantees, who serve 571,000 people each year [7].

National Abandoned Infants Assistance Resource Centre - Works to enhance the quality of social and health services delivered to infants and young children affected by drugs or HIV as well as to their parents and caregivers by providing training, technical assistance, research, resources, and information to the professionals who serve these children and families.

The Program Archive on Sexuality, Health & Adolescence (PASHA) Socio Metrics -A collection of promising teen pregnancy and STD /HIV /AIDS prevention programs assist prevention practitioners around the country by identifying and facilitating access to effective prevention programs.

Pregnant care

Pregnant care is the care you receive from a health care provider, such as a doctor or midwife, during pregnancy. During prenatal care visits, your health care provider will make sure you and the developing fetes are healthy and strong. These regular checkups are your chance to learn how to manage the discomforts of pregnancy, have any testing you may need, learn warning signs, and ask any questions you may have.

A Healthy Start: Begin before Baby's Born - Maternal and Child Health Bureau, U. S. Department of Health and Human Services Information on the importance of prenatal care and how to find services.

Healthy Start, Grow Smart - A 12-pamphlet series on infant health care and child development, one for new borns and one for each of the first 12 months. Pamphlets, available in English or Spanish, are provided to mothers who are receiving Medicaid benefits when their babies are born.



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National Healthy Mothers, Healthy Babies Coalition - Provides quality information on prenatal and infant care to health care professionals, parents, and policymakers. The website includes information on the text baby campaign.

Fever

Rising body temperatures apparently are capable of killing off many disease- producing organisms. For that reason, low fevers should normally go untreated, although you may need to see your doctor to be sure if the fever is accompanied by any other troubling symptoms. As fevers range to 104 F and above, however, there can be unwanted consequences, particularly for children. These can include delirium and convulsions. A fever of this sort demands immediate home treatment and then medical attention. Home treatment possibilities include the use of aspirin or, in children, non-aspirin pain-killers such as acetaminophen, cool baths, or sponging to reduce the fever while seeking medical help. Fever may occur with almost any type of infection of illness. The temperature is measured with a thermometer.

Dehydration

Dehydration is most often caused by excessive sweating, vomiting, or diarrhea, water loss is usually accompanied by a deficiency of electrolytes. The man aim of the paper is to health care of the patient in low cost through online web.

Healthcare Applications

The top web application that is used in the healthcare services are Doctor on Demand, Health Tap, Hello MD, Live Health Online, Microsoft Health Vault, Pill Pack, etc

Doctor on Demand

Doctor on Demand lets you see a doctor for a video consultation, have that doctor writes you a prescription, or just get your questions answered. New to Doctor on Demand is the ability to see a psychologist and have a lactation consultation. Board-certified physicians can treat non-emergency medical issues such as cold and flu symptoms, urinary tract infections, upper respiratory infections, allergies, sports injuries, back pain, heart burn, as well as many paediatric issues. They can also refill existing prescriptions or prescribed medication related for travel.

Health Tap

Health Tap is an app and website that lets you have a virtual medical appointment with a doctor, or just get your questions answered. It's up to you and your needs. For live consultations, you can see your own personal doctors, the same ones you see now, when you ask them to join Health Tap.

Hello MD

When you need to see the best expert, such as a neurologist or a radiologist, for a very specific condition, Hello MD connects you with the right certified doctor or surgeon. An appointment, usually set up within 24 hours, can then take place in the online platform via video call.

Live Health Online

Live Health Online is another telemedicine service that lets you see a doctor via video call and even get a prescription written based on that virtual visit in states where it's allowed. One key differentiator with Live Health Online is that the service accepts some insurance plans, so you may owe the same co-pay as if you went into the doctor's office.



Microsoft Health vault

Microsoft Health Vault is an online service and mobile app where you can keep your own medical records safe and up-to-date, and share them securely with healthcare professionals and people you trust. It's been around for years, with a dedicated following, including many people with chronic conditions who need to track daily health metrics, such as blood pressure, glucose, and oxygen saturation. You can input your data manually or have it done automatically by connecting Health Vault to a long list of medical device, fitness trackers, Wi-Fi bathroom scales, and other apps. It's an extremely valuable resource for both individuals and families.

Pill Pack

Pill Pack is a prescription-by-mail service that puts your medications into date-and-time stamped single packets that come out of a dispenser in the order you should take them. Each packet is also labelled with the name and dosage of each medication and any additional instructions, such as "take with food." Pill Pack works with your healthcare provider to get your prescriptions automatically refilled four weeks before your supply runs out. You can also add in self-prescribed vitamins and supplements, such as fish oil and multivitamins.

Healthcare Services with Third Vendor Consultation on Web

In this section we are going to suggest a new framework for patient, doctor and third vendor. The process of having the third vendor is to consult the patient. It provides clinical consulting and professional management services in nursing, nutrition, quality of life care (social services and recreational therapy), rehabilitation, medication therapy management and pharmacy systems, environmental health, and spiritual care. Offering professional support and guidance. It provide the patient and doctor interaction in the web.

Under manual system you have got to first wait in line to require appointment for the doctors and look ahead to it slow to own meet with them and discuss on your health issues. As you've got to produce your data and different reports again and {again | over and over} at completely different places reminiscent of the drugs store that is again a burden of carrying documents. You've got to be gift physically at the doctor's cabin. Patients have to be bound to visit on another day of once some hours to require their health reports that involves further care person with patients anytime. beneath manual system, the sole accepted payment technique is by money and if patients thanks to some reasons aren't having money on time might face difficulties and ineffective induce treatment.

To make a reallyon-line system to own meet with on-line doctors, all manual method has been machine-driven through this technique. Patient has to be compelled to fill on-linetype by that id and watchword created and sends to their email and upon accepted information, automatic login to patient panel. Through this panel, patients willchoose the doctors and have appointment with them on their time from their own place. Patients can get all their reports and medication prescriptions in their inbox by notification indication simplyonce appointment session. There's no would likeof money and a secure payment entrance has been accustomed pay the specified fees exploitation their account or debit or MasterCard.

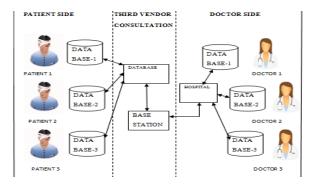


Figure 1. A New Framework for Patient, Doctor with Third Vendor Consultation on Web





Patient's side

This process will being with the patient side where they will open the web browser from that they login into the Healthcare web application in that the patient are provided with their own user id and password. Once the patient open in the web application the patient will click on the patient login option then it opens another window in that there will be user's id and password into it. After entering all the formalities then next window will open in that patient need to give the problem in dialogue box which is provided. After that the data is send to the third vendor were the third vendor will contact to the doctor, it is shown in the figure 1.

Doctor's side

The process will be same as the patient. In the place of patient we go for doctor. Where the doctor have their own id and password into it. After login into the doctor id he can able to see how many patient have registered for the health care process after that he will give the solution for the individual patient. In this way the doctor can consult the doctor for small problems. In this process the patient can also fix the timing to visit the doctor. Where this will help the patient not need to wait for more time in hospital. If the timing is not available for that patient they need to book the timing for given respective timing. In this way the doctor will consult the patient in good manner.

Third vendor Consultation

This is the main process of having the communication between the doctor and the patient. Once the data is sent from the patient the data is first sent to the third vendor from the third vendor the data is connected to the doctor database where he can able to solve the problems and give the prescriptions to the patients. These are the works that can be done in the third vendor side.

CONCLUSION

The healthcare services today grown in large number of multi-speciality hospitals with lot of emergency care. Eventhough the some improvement required to consult the healthcare expert by the patients. So this paper can bring an idea to create web based consultancy services through ease of cost. This service can make use of economic conditions with rural background and immediate services with mobile and desktop based services. The efficiency of this consultancy services for the healthcare can make a bridge between any community of patients without the location of their living. Hence this framework can help in future researchers to upgrade by implementing on mobile cloud architecture to reach the communication any part of the country.

REFERENCES

- [1] A. Wijewickrama And S. Takakuwa, "Outpatient Appointment Scheduling In A Multi Facility System," 2008 Winter Simulation Conference, Austin, Tx, 2008, Pp. 1562-1571.
- [2] M.S.Saravanan, Shafiya Banu, "Building Private Cloud Infrastructure and Related Issues for Healthcare System", Published in International Journal of Applied Engineering Research by Research India Publications, India, Vol.10, Issue.4, March'2015, pp.3040-3045, ISSN:0973-4562.
- [3] N.T.J. Bailey, "A Study Of Queues And Appointment Systems In Hospital Out-Patient Departments With Special Reference To Waiting-Times", Journal Of The Royal Statistical Society, Vol. 14, Pp. 185-199, 1952
- [4] N. Yeon, T. Lee And H. Jang, "Outpatients Appointment Scheduling With Multi-Doctor Sharing Resources," Simulation Conference (Wsc), Proceedings Of The 2010 *Winter*, Baltimore, Md, 2010, Pp. 2218-2229.
- [5] Stathis Marinas, Panayiotis Nikolopoulos, Sotiris Pavlopoulos "A Web-Based Patient Record And Appointment Management System "ServingHumanity, Advancing Technology Oct 12-16,99,Pp.1222.
- [6] S.B.Choudhari, Chaitanya Kusurkar, RuchaSonje, ParagMahajan, JoannaVaz" Android Application For Doctors Appointment", Vol.2, Issue 1, January2014, International Journal of Innovative Research In Computer And Communication Engineering, pp.2472-2474.



ISSN: 0975-8585

[7] NaziaS, EktaSarda "Online Appointment Scheduling System For Hospitals—An Analytical Study", Vol. 4 Issue 1 August 2014, International Journal of Innovations In Engineering And Technology (Ijiet), Pp.21-27.