

RSS Healthcare Quality Management In Cloud Computing papers

Azmishawkatabdulbaqi, Abdabrahimmosslah, Reyadhazim Mahdi

Dept. of Comp. Science College of Computer & InfoTech-University of Anbar

College of Islamic Science-University of Anbar

Dept. of Comp. Science. College of Science-University of Mustansiriyah

Corresponding Author' Azmishawkatabdulbaqi

-----ABSTRACT-----

Abstract - Rich Site Summary (RSS) is a design for handing regularly changing web content, which is utilized to publish activities that are regularly updated in a unified format. Several news sites, blogs and other online publishers publish their component as an RSS feed for beneficiaries. RSS solves all people problems for who regularly used the web. It permits the user to simply stay informed by recovering the latest sites content that gets the users interested. Users are time-saving by simply un visiting each site separately. This paper presented a suggested medical and healthcare RSS uses cloud computing.

KEYWORDS: *RSS service, Cloud Computing, Healthcare.*

Date of Submission: 16-05-2018

Date of acceptance: 31-05-2018

I INTRODUCTION

With increasing interest in new technology, healthcare applications are increased and emerged the need to use new technology gathering between the speed and save time. Claude computing technique used to provide a flexible and reliable tool for users to get them anywhere and anytime. The limited availability of applications, software and embedded tools, lead to a search for an alternative. In this paper, RSS technique is used within cloud computing technology in order to gain new, continuous information on the latest medical developments and medical treatment as well as medical reports for doctors and their patients with respect to the exchange of experiences between doctors around the world in order to quick solution of difficult pathological cases [1].

One of the main objectives of this framework is to promote a common understanding of the components of the health system and what are the strengths of these systems. It also expands health systems and services, such as addressing bottlenecks in a systematic and exemplary manner, driven by the required health outcomes, and provides a basis for supporting other countries to achieve system-wide sustainable development scope. To be most effective, this process must be country-led, based on priorities set out in comprehensive national health plans [2]

They contains two kinds of heath service: private service and non-private service. Health services are services provided to users and to the public, which is very clear, and more clearly than any other system. Health Services was created especially for health care organizations to provide specialized health needs of people who need this care [3].

Healthcare is the diagnosis, treatment, and disease prevention, injuries, and other human physical and mental impairments. The healthcare was introduced by specialists in medical health, dentistry, midwifery (obstetrics), medicine, nursing, optometry, pharmacy, psychology and other health professions. It is appointed to the work done by the providing primary care, secondary care, and healthcare, as well as in public health [4]

II MOTIVATION

In order to help doctors to obtain last updating of information on medical and healthcare field, a proposed model of RSS health care and connect this technique with cloud computing are present, in order to achieve doctors their optimal diagnosis with standard time.

III CATEGORIES OF HEALTHCARE:

Healthcare can be defined as below categories:

- 1) Primary care indicates to the healthcare professionals work who act as the first point of consultation for all patients within the healthcare system.
- 2) Secondary care indicates to the services of the healthcare that provided by the doctors and other professionals health who have not a patients contact [5].

IV. HEALTHCARE QUALITY MANAGEMENT

A. The Effectiveness of Healthcare: The effectiveness of health care refers to:

- a) To what degree was the target achievement?
- b) To any degree desired results have been achieved care.
- c) To what degree the strategy succeeded in achieving the set goals and reflect the extent of doing the work in the right way.

B. Efficient Service Provided: include:

- a) Provide better services of the healthcare necessary.
- b) Bypass the wrong services and recognize the services of strengths and weaknesses.
- c) Work to overcome the vulnerabilities of the nursing staff and via the evaluation of nursing operations.

C. Estimated Technique: include:

- a) The efficiency of administrators, department heads and their ability to supervise and training and work-related solution and the efficiency of cadres jointly help educational courses that are held in the hospital or outside problems.
- b) The ability to manage devices, medical equipment and other supplies in the department [6].

V. CLOUD COMPUTING BEHAVIOR

A. What is Cloud Computing?

Cloud computing is a distributed computing paradigm that focuses on providing a wide range of users with distributed access to scalable, virtualized hardware and/or software infrastructure over the internet [7]. This model (Fig.1) is enabled in anywhere, convenient, on-demand network access to share with computing networks resources such as, servers resources, storage resources, applications, and services resources, that can be immediately released with minimal management service provider interaction. The cloud computing model consists of 5- essential features, three service models, and four deployment models [8].

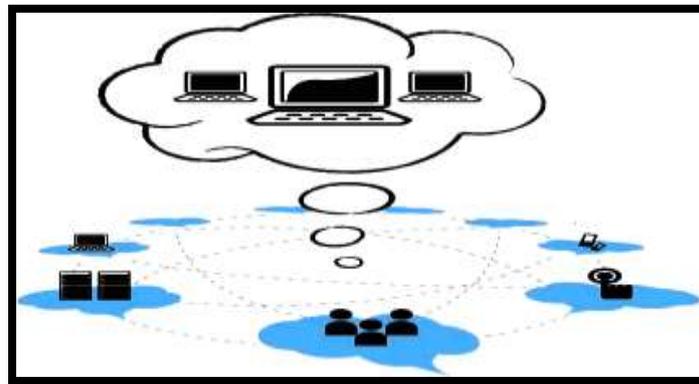


Fig. 1 General Form of Cloud Computing

B. Clouds Computing

There are several kinds of clouds can subscribe based on user requirements. If user home or owner of small business, probably use a public cloud service.

1. Public Cloud: can be accessed by any subscriber online and cloud space access.
2. Private Cloud: established to a private group or organization with limited access to just that group.
3. Community Cloud: shared between two or more organizations have same cloud requirements.
4. Hybrid Cloud: is a combination of two clouds or more, where the clouds are public, private, or community [9]

VI. BRIEF HISTORY OF RSS

Almost the RSS service appeared in 1999 with the development of Netscape Company and two Lippi Dan Dan Libby Ramanathan and Goh Ramanathan V. Guh. The first version of RSS in March 1999, and was named version RSS 0.9. In July 1999, Dan Libby has developed a new version RSS 0.91. In 2002, The New York Times has provided the RSS Feed in position; after that it became the Internet, browsers are adding this technology directly to their products. Today, we note that all known sites in the world with the services of the RSS.

VII. RSS SERVICE

RSS service (Rich Site Summary) or in general (Really Simple Syndication) is a service the latest news to follow up directly and without the need to visit the site, will provide the user RSS news Title Service, and

concise news text, and a link or link to the full story on the website text, in addition to a number of the existing comments (fig. 2).



Fig. 2 Different Samples of RSS Feed

The RSS is a new hotbed of Internet-based media that used to publish frequently updated works in a standardized format; The RSS represents a shift from mostly static content to dynamic, continually updated discussions. It is a way to publish content in files that can be read by programs called RSS reader or news aggregator (daily news, medical news, military news and other different news), and Literal translation.

We proposed this paper an opportunity to introduce an integrated telemedicine service starting from data collecting to information deliver during the cloud computing [10].

Many websites offer RSS feeds so that when a news article or a summary of an article is posted, it is also sent to your RSS Feed folder in Microsoft Outlook working under windows. There are two types of RSS readers:

(1) *On the Internet (Online)*: Feed reader on the Internet should be continued on the user's connection to the Web, and must use a web browser to access the feed reader and then read it. The benefit of this kind that helps the user to access from a computer connected to the Internet, if you are using many of the computers (office, home, mobile device, etc.).

(2) *On a desk (Offline)*: Feed reader Offline / desktop is a program on your computer, helps the user to update the feed when they are connected to the Internet and then be read later, whether or not connected to the Internet. The benefit of this type is to provide the amount of contact time either online or disadvantages they You cannot use multiple computers. RSS uses a family of standard web feed formats to publish frequently updated information: blog entries, news headlines, audio, and video. An RSS document (called "feed", "web feed", or "channel") includes full or summarized text, and metadata, like publishing date and author's name [11].

VIII. RSS FEED BENEFITS

Service RSS Feed shortens the user time to surf favorite sites watched continuously, instead of opening more than one site for photos, news or videos or other medical developments or follow-up of patients by doctors helps users of this service to get them in the window and one on the (computer, iPad and mobile) that supports this service within a few seconds, and also we can say it provides the user the cost of the Internet connection [12]. The principle RSS technology is based on the summary. If the user (doctor, teacher and engineer) watching the news and events, technology and reading daily newspapers more than one at the same time and watching Arab and international events, as well as the same develop follow through modern technology, it requires time and effort a great addition high cost. TheRSSStechnologyhas reducedthe time and effort, cost and contributed asmallservicethrough the provision ofa smallplatformfor the user ona towebsites andweb pagesand makean extraeffortand time. The benefits of RSS service can be summarized below [13]:

- 1) RSS service gives the users full access to many news sites that the user chose it, for example, Whenever the user visited a particular site, the RSS feed updates that location who visited him directly the latest news and developments.
- 2) RSS gives the user an immediate review of favorite sites that support the RSS service continuously.
- 3) RSS give webmasters a permanent and immediate contact with persons interested in their positions, allowing them to access the news quickly and on a large number of readers.
- 4) RSS permits a rapid browsing for news and updates.
- 5) With RSS, it is possible to distribute up-to-date web components from one web site to thousands to other around the world.
- 6) RSS permits user to syndicate site components.
- 7) RSS describes an informal way to share and view headlines and components.
- 8) RSS files can be updated automatically
- 9) RSS permits personalized views for various sites

On the other hand, the disadvantages of this technology are a few properties compared to their counterparts.

IX. XML RSS FEED

XML is a language intended to clarify a data in a meaningful way. The task of XML exceeds the language of HTML (language responsible for establishing and building web pages. XML can be understood by following details:

D. Data Storage

HTML view content of documents on the browsers. XML responsible for processing the document's contents of users. It's possible to store information in a separate file called XML file, and writing instruction of information display in the browser in another file is an HTML file. Here, ensure that any modification of information about the document, it will not require any modification in HTML as was the case previously.

E. Data Swapping and Data Sharing

XML language enables to exchange and share data. HTML cannot share and exchange data. Language has made important solutions to a conflict troubles formats of incompatible data because data XML is saved in plain text files that run without problems with various operating systems, various servers, various applications, and various browsers [14].

F. Data Display Methods

Most of applications are considered XML files are database due to its contain structured data and organization data, therefore, this application view data in different forms. This led programmers to databases complexities. Finally, XML is language allow to create tags, use these tags according to a clear structure are user selected [15].

X. MODEL IMPLEMENTATION

G. How RSS Feed Work

The information Send from the source through simple text files (XML Language) sent by the site publisher to feed a special server. The RSS feed server sends them to the subscriber screen. It usually takes 30 seconds to 30 minutes until the updates appear in the joint service [16].

H. RSS Feed Requirements

To take advantage of RSS feed service, the user needs a program help him to read information transmitted and displayed in order to access RSS service, this program is called an RSS Reader.

The RSS feed Reader program is used to update information periodically automatically, allows the user to get the RSS feed from different locations for the purpose of browsed. As well as the user needs to get to the RSS service visit the site using one of the popular browsers such as (Internet Explorer, Mozilla, Firefox, etc.). RSS Feed is written in XML language [17].

I. RSS Feed Reader Versions :

There are many versions available of an RSS Feed Reader. These versions can download via the internet easily. Next, some examples operating system based:

- Android: Feedly (On-Mobile).
- Feedly : IOS.
- Windows: (Feed Demon).
- Using a web browser: (My Yahoo Reader, google Reader).
- Macintosh: (Shrook, Read Kit) [18].

J. System Description

Previously, the user has visited many sites looking for a specific information. The RSS technology reduces all the ways to provide an integrated and easy technique enables the user to access all modern information they want directly during different sites. The relation between user and all the visited sites to get a specific information (formerly) is One-Many relation, this relation need more effort and more time to get what the user needs.

At present, the relation between user and all visited sites to get a specific information (previously) is Many-one relation, this relation does not need effort and time to get what user needs due to RSS technology looking instead for user in all sites to reduce the time and provide another modern information in all fields. The idea of connecting RSS technology with cloud computing is to help professionals in all fields to access required information at anywhere and everywhere with possibility of protecting information in the cloud. For example, the doctor can check his patient directly where the patient and the doctor at the same place. If the patient or the doctor traveled and both became at different places, the communication between the doctor and patient become a difficult due to long distance between doctor and patient. The cloud computing technology provides the possibility of follow-up the patient by another doctor through cloud computing, where the doctor sends periodic and ongoing reports to cloud computing to be followed up by other doctors down to get a successful treatment for the patient. The doctor looking for latest medical treatments about a particular disease. The doctor is sending information and treatment to the other doctor and patient. RSS technology is Many-one

relation (all the sites collect all specific with latest version of information storage on RSS), this relation helps the doctor to get treatment technology about a particular disease and send this treatment to the patient directly. Below, a complete description of RSS Healthcare cloud computing:

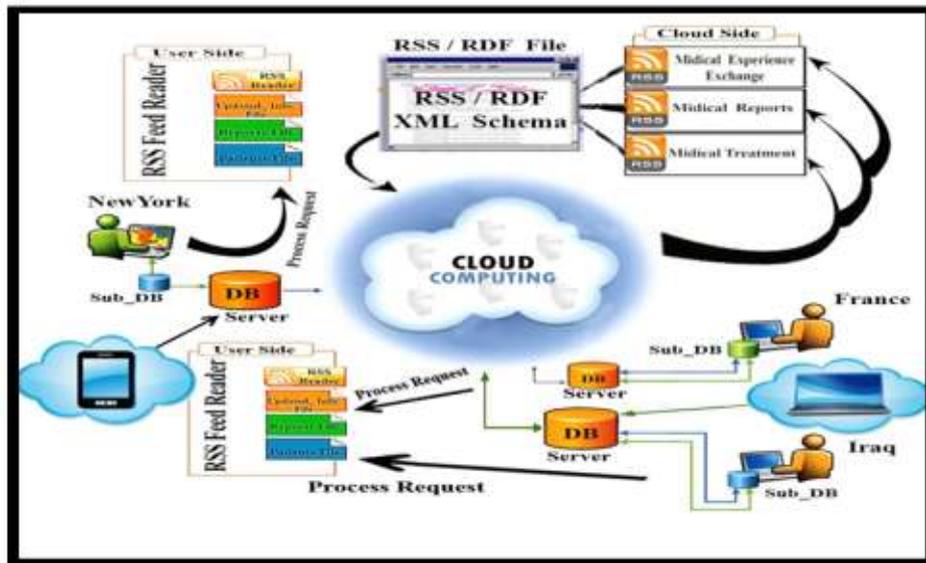


Fig. 2 A Complete Infrastructure of RSS Healthcare in Cloud Computing

XI. CONCLUSION

RSS feeds hold the latest classification decisions and upcoming releases added to the NCD (National Classification Database). The user can subscribe and automatically get updated with the latest classification decisions added to the NCD as soon as they are accessible. During this article, a conclude that RSS Feed can be considered as a:

- (1) **VIRTUAL LIBRARY:** RSS can consider as a bookstall (medical, surgery, medicament and healthcare) or newsstand, bringing all feed subscriptions together into one place.
- (2) **OPTIONAL:** due to users acquires all good things in human life (healthcare news headlines, medical news headlines, surgery news headlines, medicament news headlines).
- (3) **ESSENTIAL:** due to users can't read the feed without a feed reader installed over operating system user own it.
- (4) **SECURE and SAFE:** due to user have total control over feed reader and feeds, i.e., no spam, no selling of username and no viruses.
- (5) **SEPARATOR:** With RSS, user can separate between wanting information (desired) and unwanted information.
- (6) **CHANNELPATH:** With RSS, user can create own news channel, and publish it to the internet (i.e. increase more site traffic and visitors).
- (7) **FREE INFO. :** User can choose to view the news he want it (whatever), the interested news that are relevant to user work.
- (8) **HEADLINES DISPLAYING:** user can choose desired font size and appropriate header colors to fit in with the design of own user website.

REFERENCES

- [1]. H. Liu, V. Ramasubramanian, and E. Sirer. Client Behavior and Feed Characteristics of RSS, a Publish-Subscribe System for Web Micronews. In Proc. of ACM Internet Measurement Conference, Oct. 2005.
- [2]. Hsin-Lu Chang nad et al," Factors that Impact the Performance of e-Health Service Delivery System", International Joint Conference on Service Sciences © 2011 IEEE.
- [3]. J. Ruminski, T.Kocejko and et al," Multimodal platform for communication, training and health monitoring at home", Digital Object Identifier:104181/cstpervasivehealth, 2009.
- [4]. Gunter, T.D. and Terry, N.P. "The Emergence of National Electronic Health Record Architectures in the United States and Australia", Models, Costs, and Questions in J Med Internet Res7, 2005.
- [5]. "Health care system". Liverpoolha.org.uk. Retrieved, 2011-08-06.
- [6]. C. Henegar, C. Bousquet, A.L. Lillo-Le, P. Degoulet and M.C. Jaulent, "A knowledge based approach for automated signal generation in pharmacovigilance," Stud Health Technol Inform, 107: 626-630, 2004.
- [7]. Jansen, Wayne &Grance, Timothy. Guidelines on Security and Privacy in Public Cloud Computing. National Institute of Standards and Technology, 2011.
- [8]. Grossman, R. "The Case for Cloud Computing." ITPro 11, 2 (March/April 2009): 23-27.

- [9]. Jansen, Wayne &Grance, Timothy. Guidelines on Security and Privacy in Public Cloud Computing. National Institute of Standards and Technology, 2011.
- [10]. Libby, Dan (1999-07-10). "RSS 0.91 Spec, revision 3". Netscape item. Archived from the original on 2000-12-04. Retrieved 2007-02-14.
- [11]. Jump up ^ "Web feeds | RSS | The Guardian | guardian.co.uk", The Guardian, London, 2008, webpage: GuardianUK-webfeeds
- [12]. Richardson, W. (2005) RSS Quick Start Guide for Educators.
- [13]. Downes, S., Stephen's Web (2002); "An Introduction to RSS for Educational Designers".
- [14]. <http://groups.google.ca/group/k12.ed.tech/feed/msgs.xml>
- [15]. <http://groups.google.ca/group/k12.ed.socstudies/feed/msgs.xml>
- [16]. H. Liu, V. Ramasubramanian, and E. Sireer. Client Behavior and Feed Characteristics of RSS, a Publish-Subscribe System forWebMicronews. In Proc. of ACM Internet Measurement Conference, Oct. 2005.
- [17]. Feedburner, (2005); "How feeds will change the way content is distributed, valued and consumed".
- [18]. <http://www.slideshare.net/renzilde/rss-28400890>

Firs A. Authors M.Sc. AzmiShawkatAbdulbaki obtained his M.Sc. in Computer Science from University of Anbar. He is currently instructor of Computer Science ,in College of Computer ,University of Anbar ,IRAQ. His research interests are Artificial Neural Networks, Computer Networks, Image Processing, Software Engineering, Pattern Recognition and Genetic Algorithm.



Second B. Authors M.Sc. AbdAbrahamMosslih. and who was born in the Alaesawi village, Fallujah, in 1971. obtained his M.Sc. in Computer Science from College of Science University of Mustanseriah. Iraq Baghdad. He is currently instructor of College of Islamic,University of Anbar ,IRAQ. His research interests are Artificial Neural Networks, Computer Networks, Image Processing, Software Engineering, and Genetic Algorithm.



Third C. Authors M.Sc. ReyadhHazim Mahdiobtained his M.Sc. in Computer Science from University of utara / Malaysia. He is currently instructor of College of Science University of Mustanseriah IRAQ-BAGHDAD His research interests are Artificial Neural Networks, Computer Networks, Image Processing, and Software Engineering



Azmishawkatabdulbaqi." RSS Healthcare Quality Management In Cloud Computingpapers." The International Journal of Engineering and Science (IJES) 7.5 (2018): 29-34