



A Framework for Intensive Patient-Oriented Health Wiki: A Responsible Web-Based Reference for Looking up Health Problems

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Introduction: Technology alters habits and thus leads to a change in life style. Today, Information and Communication Technologies (ICT) and, subsequently, Internet play a crucial role in this regard. Now, for instance, many people seek the answers for their questions through search engines and websites, and one of the most important types of questions they may have is those concerning their diseases and health conditions.

Quality and Validity of Data & Information on the Web: High volumes of data available on the Web, on one hand, and the fact that anyone having access to the internet can increase these data, on the other hand, have led to a rather chaotic cyber atmosphere. Not only do these facts question the reliability and validity of these data, but they also call for the need to manage such vital information more properly [1]. For instance, when the search for the information about cancer on Google was probed, only one of the ten results on the first page was from a reliable source in this regard and the rest were of less quality and reliability.

Web 2.0 is a set of economic, social, and technology trends that collectively form the basis for the next generation of the Internet—a more mature, distinctive medium characterized by user participation, openness, and network effects [2].

Framework of Health Wiki for Farsi language Web: (Intensiveness and Patient-orientedness) The purpose of this study is to design a Web-based responsible source only for the people tending to search for information on the Web and not for medical students and doctors seeking educational information. Considering the importance of validity and reliability of the health-related information, the primary purpose of this study is not to create a complete wiki but to set up its structure under the country's Medical Council. In this project, all the doctors who are done with their general practice will be defined as the people who can enter the system and add or edit information on it. However, once the structure and primary information are shaped and created, the system will be gradually changed to a complete wiki, in which all visitors, i.e. non-specialists and patients, can have the opportunity to edit the information and add their experiences about a particular disease to the pages, provided that they are approved by the system administrators.

Advantages of such a system

- ✓The opinions of all the specialists in the field can be enjoyed.
- ✓Since it is concentrated, it avoids scattered data and information.
- ✓It helps develop a better relationship between physicians and patients.
- ✓It is a reliable source for looking up health-related questions.
- ✓By focusing on the information that patients require, it promotes patient-oriented medicine.
- ✓By getting feedback from the users who have had a kind of experience about a particular disease, it can enrich the information.

A **Wiki** is a Web application the content of which is collaboratively added, updated, and organized by its users. A wiki's content is editable through a Web page interface. The site's users create the content, define the relationships, and establish the links between the site's Web pages [3].

Search for Cancer in Persian language (سرطان)

This table illustrates the issues which are looked up along with the word (سرطان)

Table I		
No.	Term	Exact Phrase in Persian
1	Breast Cancer	سرطان سینه
2	Cancer Symptoms	علائم سرطان
3	Leukemia	سرطان خون
4	Cancer Treatment	درمان سرطان
5	Bowel Cancer	سرطان روده
6	Stomach Cancer	سرطان معده
7	Uterine Cancer	سرطان رحم
8	Cancer Disease	بیماری سرطان

This table demonstrates the search for which words along with (سرطان) is increasing

Table II		
No.	Term	Exact Phrase in Persian
1	Cancer Symptoms	علائم سرطان
2	Cancer Disease	بیماری سرطان
3	Cancer Treatment	درمان سرطان
4	Bowel Cancer	سرطان روده
5	Stomach Cancer	سرطان معده
6	Prostate Cancer	سرطان پروستات
7	Breast Cancer	سرطان سینه
8	Skin Cancer	سرطان پوست



References

- [1] Tao Li, Min Li "An Investigation and Analysis of Information Overload in Manager's Work" iBusiness, 2011, 3, 49-52
 [2] Musser, John and O'Reilly, Tim., "Web 2.0. Principles and Best Practices", O'Reilly Media Inc., 2007 [Online] Available: http://www.oreilly.com/catalog/web2report/chapter/web20_report_excerpt.pdf
 [3] Mitchell, Scott "Easy Wiki Hosting, Scott Hanselman's blog, and Snagging Screens" MSDN Magazine Vol. 23, CMP Media Inc., 2008 [Online] Available: <http://msdn.microsoft.com/en-us/magazine/cc720874.aspx>