



Search

Return to Search Results

My Tools ▼

Search History

Marked List

NCBI



Save to EndNote online

Add to Marked List

3 of 9

## User Interface Design in Medical Distributed Web Applications

By: [Serban, A](#) (Serban, Alexandru)<sup>[1,2]</sup>; [Crisan-Vida, M](#) (Crisan-Vida, Mihaela)<sup>[2]</sup>; [Mada, L](#) (Mada, Leonard)<sup>[3]</sup>; [Stoicu-Tivadar, L](#) (Stoicu-Tivadar, Lacramioara)<sup>[2]</sup>

Edited by: [Schreier, G](#); [Ammenwerth, E](#); [Horbst, A](#); [Hayn, D](#)

### HEALTH INFORMATICS MEETS EHEALTH

**Book Series:** Studies in Health Technology and Informatics

**Volume:** 223 **Pages:** 223-229

**DOI:** 10.3233/978-1-61499-645-3-223

**Published:** 2016

### Conference

**Conference:** 10th eHealth Conference on Predictive Modeling in Healthcare - From Prediction to Prevention

**Location:** Vienna, AUSTRIA

**Date:** MAY 24-25, 2016

### Abstract

User interfaces are important to facilitate easy learning and operating with an IT application especially in the medical world. An easy to use interface has to be simple and to customize the user needs and mode of operation. The technology in the background is an important tool to accomplish this. The present work aims to creating a web interface using specific technology (HTML table design combined with CSS3) to provide an optimized responsive interface for a complex web application. In the first phase, the current icMED web medical application layout is analyzed, and its structure is designed using specific tools, on source files. In the second phase, a new graphic adaptable interface to different mobile terminals is proposed, (using HTML table design (TD) and CSS3 method) that uses no source files, just lines of code for layout design, improving the interaction in terms of speed and simplicity. For a complex medical software application a new prototype layout was designed and developed using HTML tables. The method uses a CSS code with only CSS classes applied to one or multiple HTML table elements, instead of CSS styles that can be applied to just one DIV tag at once. The technique has the advantage of a simplified CSS code, and a better adaptability to different media resolutions compared to DIV-CSS style method. The presented work is a proof that adaptive web interfaces can be developed just using and combining different types of design methods and technologies, using HTML table design, resulting in a simpler to learn and use interface, suitable for healthcare services.

### Keywords

**Author Keywords:** [User interface design](#); [web interface design](#); [application analysis](#); [HTML](#)

### Author Information

**Reprint Address:** Serban, A (reprint author)

+ Univ Politehn Timisoara, Piata Victoriei 2, Timisoara, Romania.

#### Addresses:

[ 1 ] Univ Med & Pharm Victor Babes Timisoara, Dept Med Informat, Timisoara, Romania

+ [ 2 ] Univ Politehn Timisoara, Dept Automat & Appl Informat, Timisoara, Romania

[ 3 ] Syonic SRL, Timisoara, Romania

**E-mail Addresses:** [alex.serban81@yahoo.com](mailto:alex.serban81@yahoo.com)

### Publisher

IOS PRESS, NIEUWE HEMWEG 6B, 1013 BG AMSTERDAM, NETHERLANDS

## Citation Network

0 Times Cited

8 Cited References

[View Related Records](#)

[View Citation Map](#)

[Create Citation Alert](#)

(data from Web of Science™ Core Collection)

### All Times Cited Counts

0 in All Databases

0 in Web of Science Core Collection

0 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

### Usage Count

Last 180 Days: 1

Since 2013: 1

[Learn more](#)

**This record is from:**  
**Web of Science™ Core Collection**

### Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

Categories / Classification

Research Areas: Health Care Sciences & Services; Medical Informatics  
Web of Science Categories: Health Care Sciences & Services; Medical Informatics

Document Information

Document Type: Proceedings Paper  
Language: English  
Accession Number: WOS:000385791400030  
PubMed ID: 27139407  
ISBN: 978-1-61499-645-3; 978-1-61499-644-6  
ISSN: 0926-9630

Other Information

IDS Number: BF9OR  
Cited References in Web of Science Core Collection: 8  
Times Cited in Web of Science Core Collection: 0