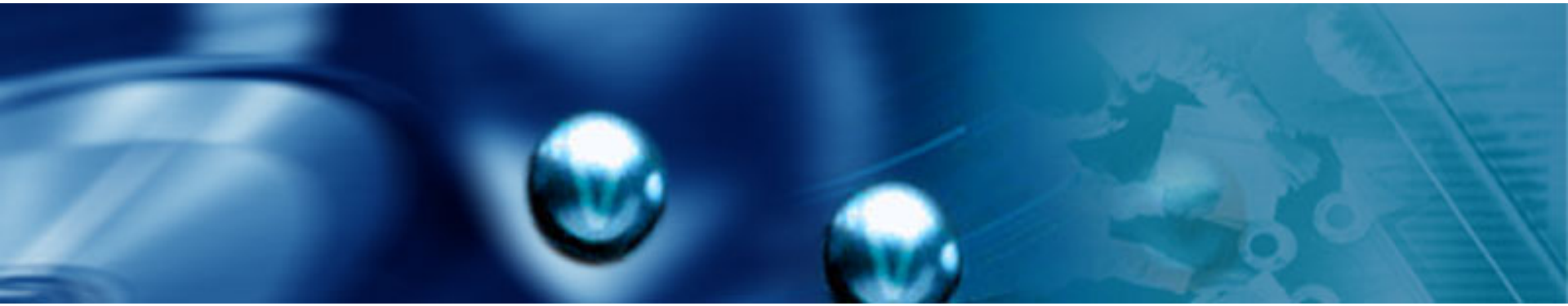
UI Improvement Plan by Analyzing User Requirements at NICU for OCS in Korea
- Focused on Laboratory Information System at Asan Medical Center in Seoul-



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Abstract

This study examines a way to improve UI by analyzing on-the-spot user's requirements, By making surveys and interviews with medical staffs at NICU and by my personal experience learned from using the Laboratory Information System while working at NICU for A general hospital Asan Medical Center in Korea.

This study analyzes user's requirements on Laboratory Information System and seeks to improve UI of Laboratory Information System. Accordingly, this study aims for the current NICU users to perform NICU businesses easy and convenient, by redesigning display screen and procedure on Laboratory Information System of OCS.

In addition, this study will further help achieve improvements of work environments for medical staffs and improvements of OCS efficiency.

Keywords[1]: OCS, User Interface, LIS, NICU

Introduction – (1)

Laboratory Information System from Order Communication System (OCS) is a computer system that is built for laboratory information processing.

Laboratory Information System exists as a sub system of hospital information system or exists as an independent system.

However, although it exists under the sub system of hospital information system, it has a high rate of use and has the largest volume of information in a hospital, except for image information.

Introduction – (2)

However, according to the previous studies, database construction and studies on OCS medication information are done and made, But database construction and studies on Laboratory Information System are rare.

In fact, Laboratory Information System is built based on clinical pathologic tests. However, it is believed that necessary measures need to be taken to reduce nurse's jobs according to doctor's order from a variety of actual clinical tests such as cranial nerve center test, radiation test, digestive organ center test, cardiac center test, nuclear medicine test, and respirator lab test.

Methods

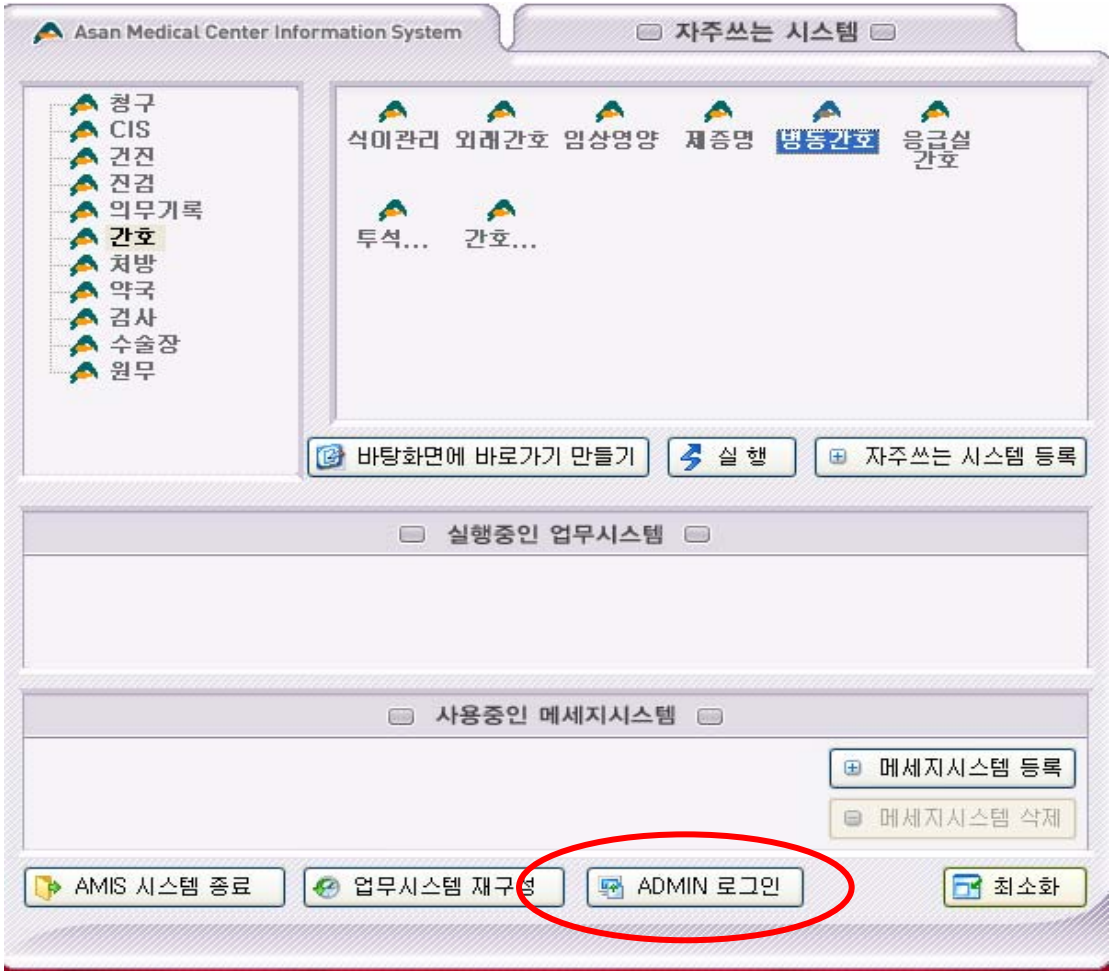
User Interface (UI) improvement plan is made reflecting user's requirements at NICU in a hospital, centered on Laboratory information system, in designing the actual display screen of OCS.

This study examines a way to improve UI by analyzing on-the-spot user's requirements, By making surveys and interviews with medical staffs at NICU and by my personal experience learned from using the Laboratory Information System while working at NICU for A general hospital Asan Medical Center in Korea.

Results - (1)

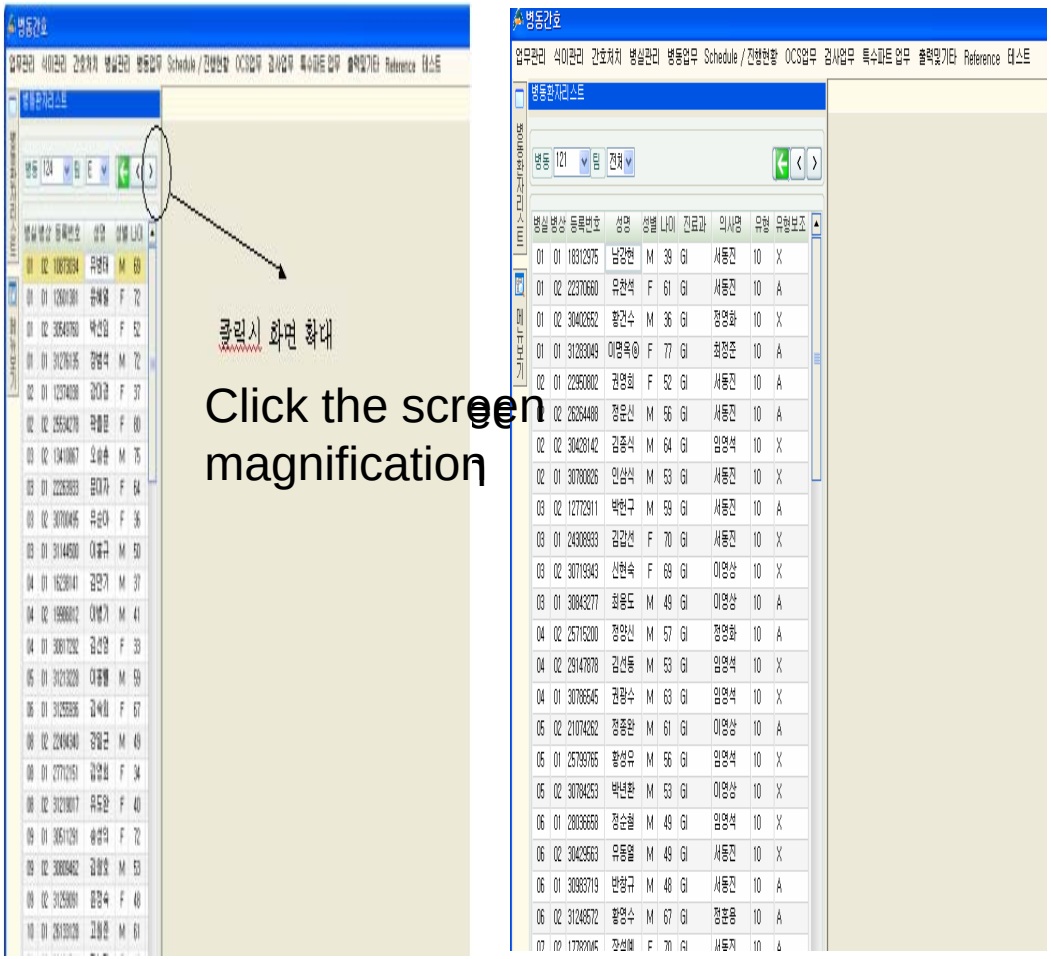
This study re-composed a next generation OCS User Interface plan based on NICU (Neonatal Intensive Care Unit) User' s requirements From investigation results analysis on Laboratory Information System and improved User Interface of Laboratory Information System

Results - (2)



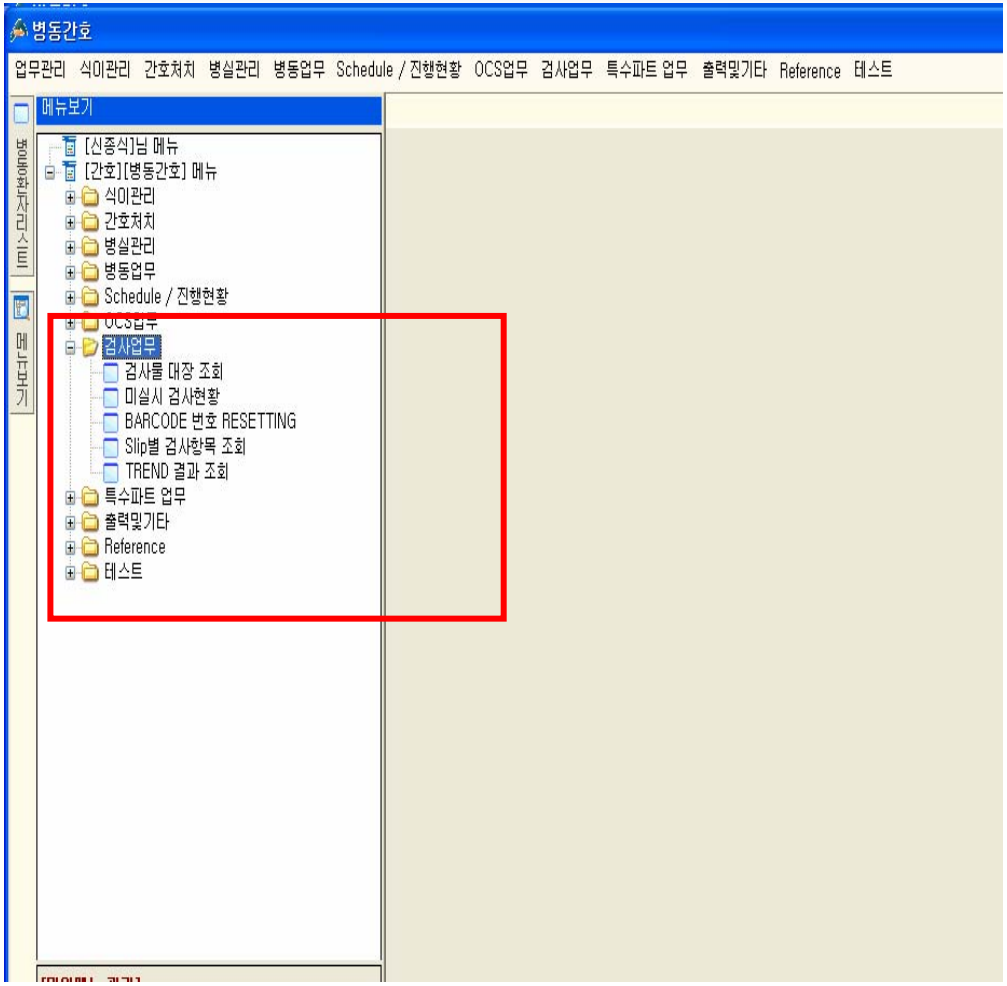
The next generation OCS program which is 2005 May opened project of the Seoul subject matter A general hospital the user to existing login did in multi branch program and it did information confirmation, but from next generation OCS all programs at one login to integrate the screen which it does at one and to the program which the user in that writes frequently and [to seem system registration which it writes frequently] to register only necessary program in order to come, it planned.

Results - (3)



From the interface position of User Interface the ward patient list comes to seem has the Sub menu from existing OCS program to do, it is not and to do it is inconvenient, from next generation OCS in the left side the ward patient list is fixed in Tab height type and menu and click it appears and to do it disappears. When click it does and the patient list is expanded and there is a possibility of seeing information which is detailed against the patient. From program of existing registration number of the hazard patient who sees different information tie Ping there is a day when it does by the hand but it means like that day will lose from next generation OCS program.

Results - (4)

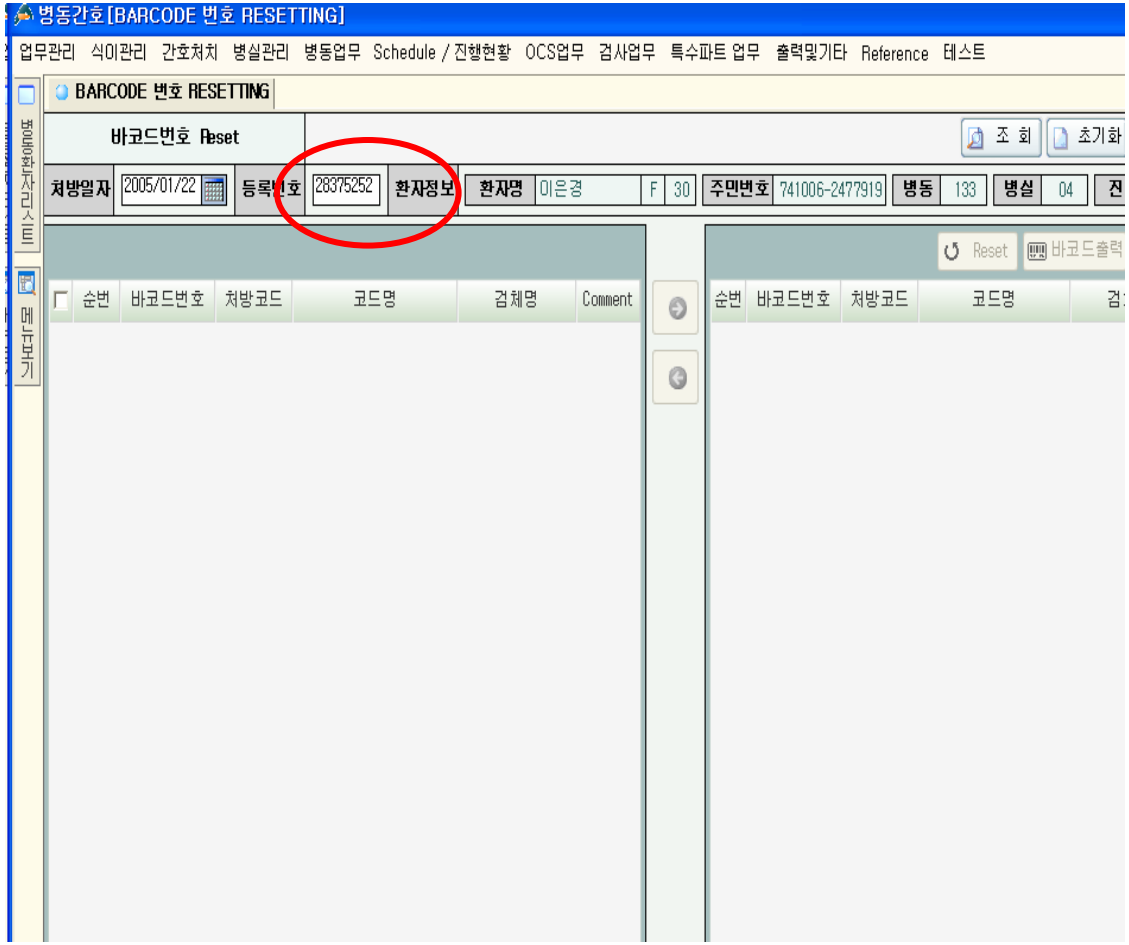


It considers that interface of User, the menu of Tab type it sees in that interface concept and the left side of User of width portion, it established, design it did that interface of User of length concept. User it will be able to select the interface which is convenient from that position in order, the menu which menu control chart oneself to do writes plentifully selection it will be able to manage in order.

Results - (5)

From laboratory Information System at the diagnosis test is named frequently with the L30, L32 , the possibility of seeing all items from more in order to be, Slip test item inquiry it planned the screen

Results - (6)



With program of existing differently by the hand tie Ping or it copied a patient registration number from the different place and it attached and a patient license number without and rightly percentage necessity ward patient list after click it had the possibility of coming in order to be, it planned.

Discussion and Conclusion

This study analyzes user's requirements on Laboratory Information System and seeks to improve UI of Laboratory Information System. Accordingly, this study aims for the current NICU users to perform NICU businesses easy and convenient, by redesigning display screen and procedure on Laboratory Information System of OCS. In addition, this study will further help achieve improvements of work environments for medical staffs and improvements of OCS efficiency.

Acknowledgement

Reference

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Acknowledgement

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