WEB BASED NURSING INFORMATION SYSTEM TO SUPPORT LEARNING

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ABSTRACT

Nursing Information System as an application to improve knowledge and quality in supporting nursing student learning at the health faculties of Indonesian partner universities. The integration of computer science and health sciences to support knowledge is a unique collaboration in supporting this activity. Describe a web-based nursing information system in supporting nursing student learning at the health faculty of Indonesian partner universities. The method used in writing this study is a literature review. Journals and articles related to technology nursing with the title according to the research. Web Based Nursing Information System to Support Nursing Student Learning at the Faculty of Health, Universitas Mitra Indonesia. Can be a solution in increasing knowledge for nursing students in learning on a website-based nursing information system.

Keywords: faculty of health; learning; nursing information systems; website technology

INTRODUCTION

Mitra Indonesia University is one of the universities located in Bandar Lampung, Lampung, precisely located at Jl. ZA. Natural Fence No. 7 Gedongmeneng Bandar Lampung, Lampung. UMITRA was founded in 1996 under the auspices of the Lampung UMITRA Foundation led by DR. H. Andi Surya and Chancellor of Universitas Mitra Indonesia, Dr. Ir. Hj. Armalia Reny Madrie AS.,MM . Mitra Indonesia University consists of 4 faculties, including the Faculty of Computer, Faculty of Business, Faculty of Health, Faculty of Law, and Postgraduate of Mitra Lampung. The Faculty of Computer has 5 majors including S1 Information Systems, S1 Informatics, S1 Information Technology, D3 Information Systems, D3 Information Technology. The Faculty of Health has 5 majors, namely S1 Nursing, S1 Public Health, S1 Nutrition, and NERS (NERS Profession), and Masters in Public Health (M.Kes.). The Faculty of Business has 5 majors, namely S1 Management,S1 Accounting, S1 Entrepreneurship, and D3 Industrial Management, and D3 Accounting. The Faculty of Law has 1 major, namely S1 Law. Meanwhile, they also open classes for Postgraduate Masters in Management (MM) this year.

Information technology (Abdul Kadir, 2003) provides major changes to data processing and documentation in all industrial sectors including health services. The use of computer-based information management systems in the field of medicine and health services has been started since 1950. A very important part of the health sector is nursing services because nurses are a large group that directly influences the quality of service received by patients. (Dhake, 2013). A Nursing Information System (SIK) is an integration of data, information, and knowledge to support patients and nurses in decision making across nurse roles and settings, using information structures, processes, and technology (Thompson, 2002). The nursing information system (SIK) also assists the clinical system in managing nursing data and its activities. (Dhake, 2013). In addition, it provides benefits in a hospital environment if managed properly, namely saving time in

documenting, recorded data will be safer and the risk of loss is much less than manual so that it can increase the effectiveness and efficiency of nursing staff (Dhake, 2013). Cheryl, 2007).

SIK generally has several programs that are used to carry out various clinical, educational, and management functions. Most SIKs have modules for patient classification, staffing, scheduling, personnel management, and report generation. SIK can also be used to make patient care more effective and economical. Usually used in clinical components including patient history and assessment, nursing plans and services, progress notes, patient education, and patient discharge planning. All of this can be done in the nursing office or with more advanced systems at the patient's bedside. (Swansburg & Swanburg, 2001)

A website is a collection of pages in a domain that contains various information so that it can be read and viewed by internet users through a search engine. Information that can be contained on a website generally contains an image, illustration, video, and text content for various purposes. Usually for the initial appearance of a website can be accessed through the main page (homepage) using a browser by writing the right URL. In a homepage, it also contains several derivative web pages that are linked to one another.

First, the function of the website is as a means to convey the latest and interesting information to be read by your customers or customers. Basically, the website can also be used as a means of education, learning, tutorials, tips & tricks, and much more. Examples of websites as a means of information are news search sites, company profile websites, and others. The type of content, can be in the form of video, text, and images. Have you ever read or opened a site that displays pages containing articles or reading material? If so, then that's what is called a blog. People who often create blogs are called bloggers. So the function of this second website is to create a blog, so the main goal is to get visitor traffic. And, optimizing blogs that have been published. In addition, it can also function as a means to improve the company's And the last function is as a medium to accommodate the process of buying and selling online or often referred to as e-commerce. By using an e-commerce website, you are able to bring in more consumers to buy goods or services through the website that has been provided. So basically, e-commerce here is only limited to intermediaries. Examples of websites that implement this function are

Tokopedia, Bukalapak, Amazon, Shopee, and other websites. Learning is a process of interaction between students and educators and learning resources in a learning environment. Learning is assistance provided by educators so that the process of acquiring knowledge and knowledge, mastering skills and character, and forming attitudes and beliefs in students can occur. In other words, learning is a process to help students learn well. One of the notions of learning put forward by Gagne (1977) is that learning is a set of external events designed to support several internal learning processes. Furthermore, Gagne (1985) put forward his theory more fully by saying that learning is intended to produce learning, external situations must be designed in such a way as to activate, support, and maintain the internal processes contained in each learning event.

METHODS
Descriptive research method with a quantitative approach. According to (Abdullah, V, 2012), explaining that descriptive research, namely, research conducted to determine the value of independent variables, either one or more (independent) variables without making comparisons, or connecting with other variables is called the research method. Descriptive research is research that

seeks to describe a symptom, event, event that is happening at the present time. For the quantitative approach, it is explained that the approach uses quantitative because it uses numbers, starting from data collection, interpretation of the data, as well as the appearance of the results based on this understanding, it can be concluded that descriptive research is carried out by seeking information related to existing symptoms, clearly explained goals to be achieved, plan how to approach them, and collect various kinds of data as material for making reports.

The shape of the prototype in Figure 1 is an early version of the stages of a software system that is used in presenting an overview of ideas, experiments from a design, looking for as many existing problems as possible and solving these problems. Systems with prototype models allow users to know what stages the system is made so that the system is able to operate properly.
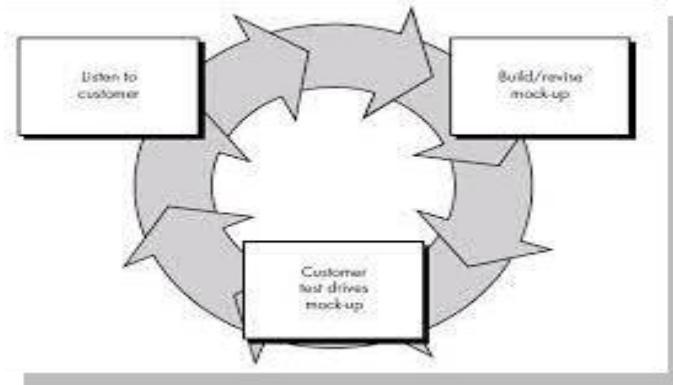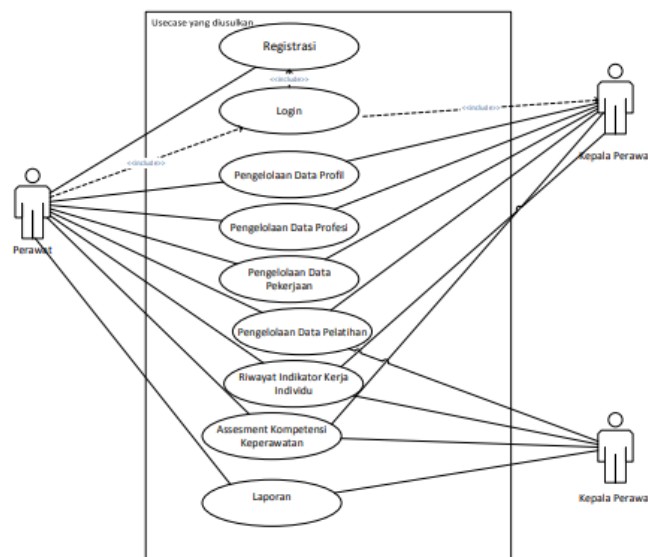

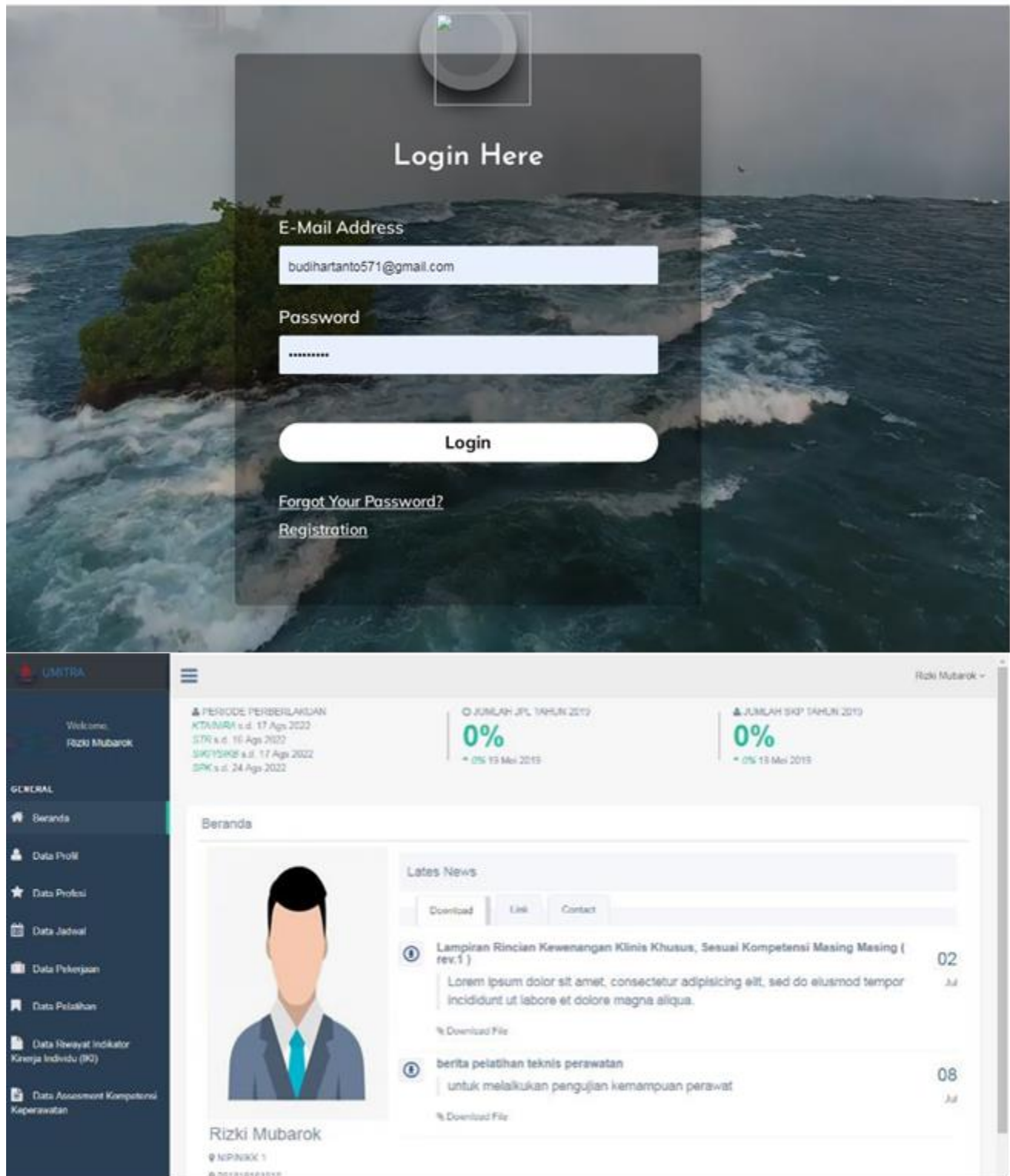Figure 1. The stages of a software system

The prototype method used in this study is intended to obtain a representation of the application modeling that will be made. The initial application design is in the form of a mockup which will then be evaluated by the user. After the mockup is evaluated by the user, the next stage is the mockup becomes a reference material for software developers to design applications.
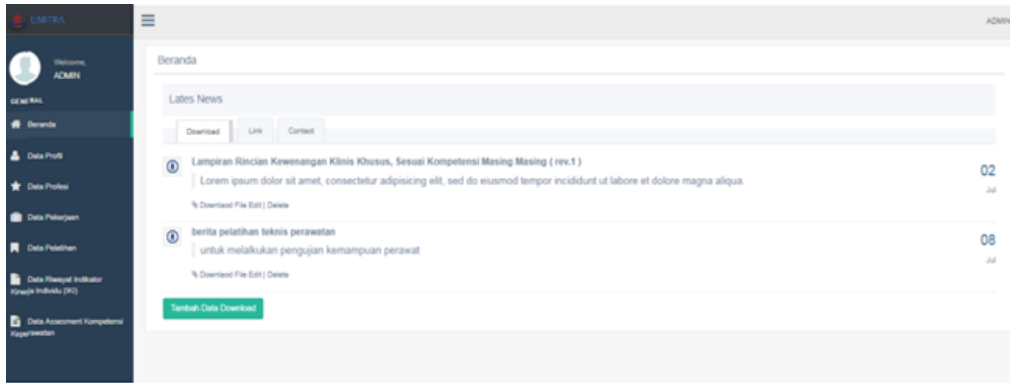

Picture 2. The next stage of testing using use case diagrams
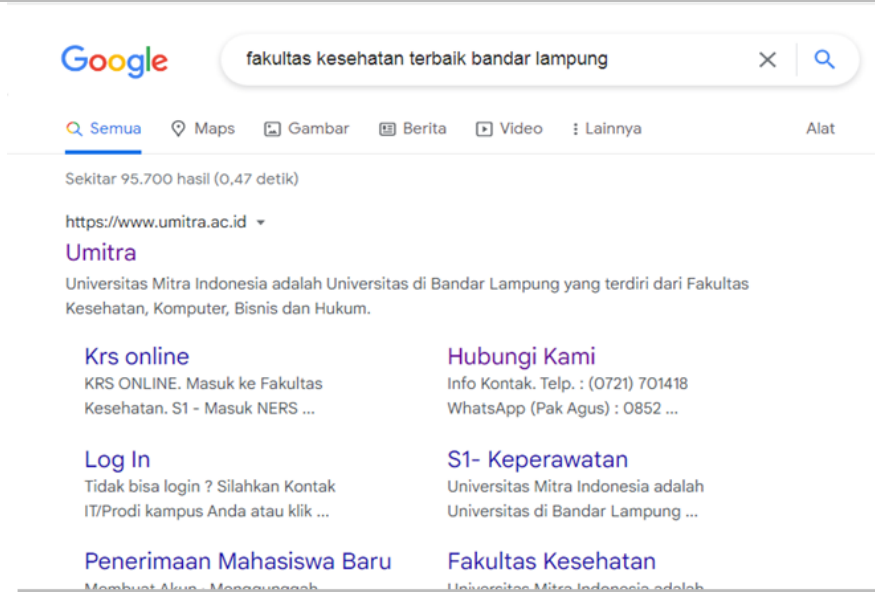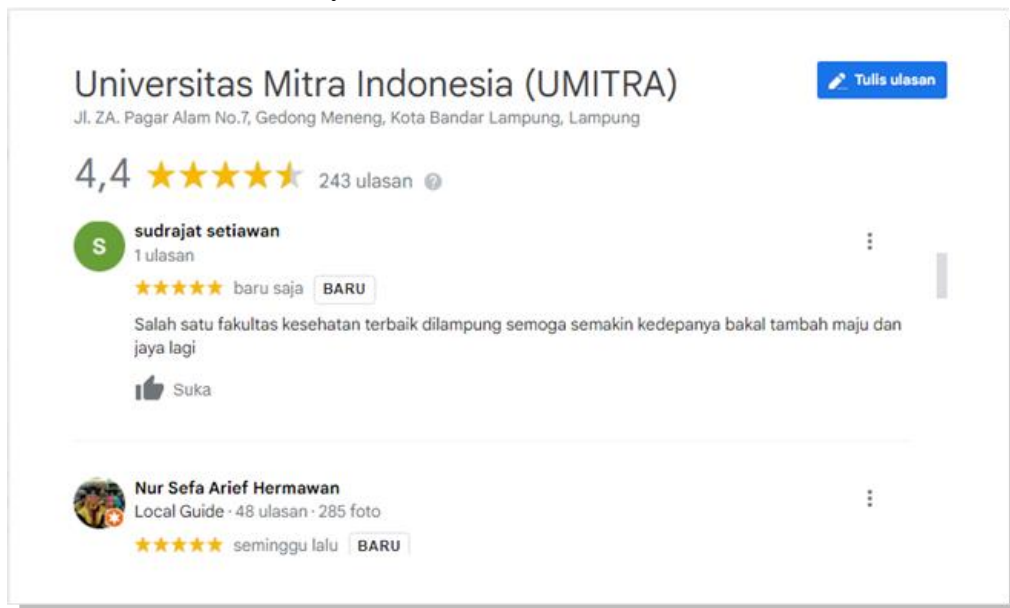
RESULTS

The image below shows the Login Page, Nurse Dashboard, Head Nurse & Admin, each of which has certain access and with this website it is hoped to discuss how to use information efficiently and effectively for nurses.

DISCUSSION

Some testimonials about the faculty of health

1. The nurse registration process and data processing which is now web-based can facilitate data access and data retrieval so that it can help speed up decision making for the head nurse
2. Scheduling of work activities which can now be viewed via the web by nurses and can be exchanged with other nurses who must record reasons.
3. Submissions for nurses can now be done via the web without having to fill in the submission data using paper media.
4. The process of increasing the level of nurses can now be done by accessing this website and the results can be seen.
5. There is media information on matters relating to nursing.

CONCLUSION

This information system is still possible to be developed so that in the future the results obtained will be even more optimal. Where along with the development of the current era which later must continue to be developed so that this information system can still be used continuously and add more about the scope of nurses and the management or system that runs.

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