Development of a Web-Based Thesis Title Submission Information System: A Case Study at the Muhammadiyah University of Palembang

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ABSTRACT

The rapid growth of the world of computers has a major impact on the world of information and telecommunications. This also triggers the rapid development of information technology to provide convenience and convenience to support humans in their efforts to complete their work. The current thesis guidance system is generally manual, in which students interact and meet face to face with the supervisor in a certain time and space. In the process, students are guided by a supervisor appointed by the head of the study program. However, the problem that often arises is that students and lecturers cannot meet due to a time discrepancy between the two parties and ignorance of the supervising lecturer's schedule. In addition, to overcome some of these weaknesses, an Online Application Final Guidance was designed. This study aims to develop a web-based information system that can facilitate students in submitting thesis titles and assisting lecturers in evaluating and determining titles.

I.   Introduction

Guidance is help or assistance that given to an individual or group of individuals to avoid or overcome the difficulties in his life, so that the individual or a group of individuals that can achieve the welfare of his life [1].

Final Project is a written result of the implementation of a research, which made for solving certain problems by using the same rules applies in the field of science.

Computer is an electronic system for manipulating data quickly and precisely and designed and organized so that automatically receives and stores input data, processes it, and produce output under the supervision of a step-by-step instruction program (operating system) stored in its storage (stored) program) [2].

A website is a collection of linked web pages and their files nterrelated. The web consists of a page or pages, and a collection of pages that called the homepage. Homepage is at the top, with pages linked below. Usually every page under the homepage alled child pages, which contain hyperlinks to other pages on the web.

Static Web is a website where the information contained in it is not can be updated through the website application but must change the script which is in it. While the Dynamic Web is a website where information contained in it can be updated through the website application.

Is a web page that is always updated, usually there is a backend page (administrator page) used to add or change content. The dynamic web requires a database to store. Dynamic website has a two-way flow of information, namely from users and owners, so that updates can be done by users and also website owners.

II.   Method

Based on the observations made, students are guided by a supervising lecturer, students who want to do final project guidance must schedule a meeting first with the supervisor, then students come to campus to meet the supervisor at the right time has been determined by bringing the report you want to consult.

The Waterfall method is a systematic and sequential information system development model, the Waterfall method has the following stages:

1) Requirements analysis and definition System services, constraints, and objectives are defined by the results

of consultation with users which are then defined in detail and serve as system specifications.
2) System and software design, The system design stage allocates system requirements both hardware and software by forming the overall system architecture. Software design involves identifying and delineating the basic system abstractions of software and their relationships.
3) Implementation and unit testing At this stage, the software design is realized as a series of programs or program units. Testing involves verifying that each unit meets its specifications.
4) Integration and system testing, the individual units of the program or programs are combined and tested as a complete system to ensure whether they meet the software requirements or not. After testing, the software can be sent to the customer.
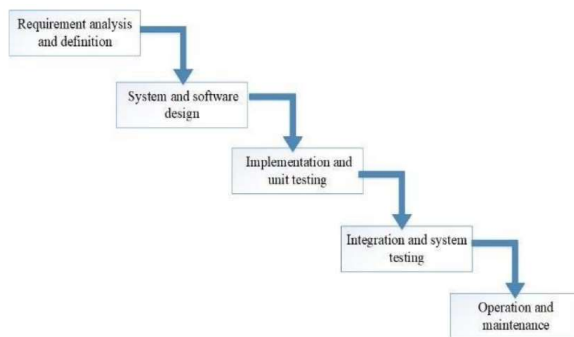5) Usually (though not always), this stage is the longest stage. The system is installed and used for real.

Figure 1.   Waterfall Method Drawing

Figure 1 is a chart of the waterfall method which is the system development method used in this study [3].

III. Results and Discussion

3.1. Implementation

The implementation of the online final project guidance application consists of several forms which have their own uses. These forms appear automatically successively in a preprogrammed order.

3.2. Software Installation

In general, system installation is the process of installing a system into a computer. The installation steps can consist of several steps that must be carried out while carrying out the installation process. In the installation of the information system requires some software so that the system can run smoothly, these software include the following:

1)   Xampp

2)   Sublime text
3)   Browser

3.3. System view

Login Page View

On the login page, as a student or lecturer user later enter the appropriate username and password. Here is the view login page The start page can be seen at Figure 2.
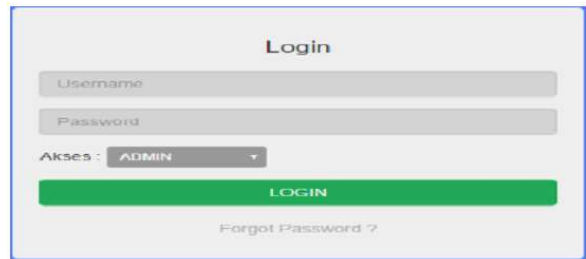

Figure 2.   Login page view

Student Login Page Display

On this login page, students enter their username and password the appropriate one that has been created by the admin. Here's what the login page looks like student. The login page can be seen in Figure 3.
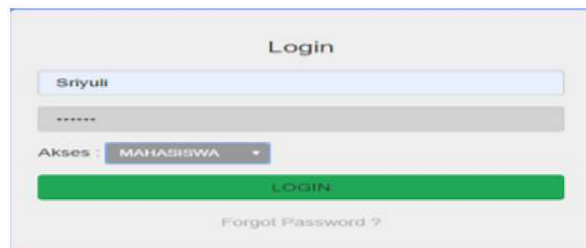

Figure 3.   Student login page display

Student Home Page Display

On the student home page display there are several buttons such as lecturer and inside the lecturer there are 3 buttons, namely the button see lecturer, button title request, and guidance request button, send final project and student profile button.

Page View Lecturer

On this page, students see and display the lecturer's profile his mentor. The student supervisor is chosen by the admin. Here's a view of the page see the lecturer.

Title Application Page View

On this page, students can submit a proposal title to the lecturer and upload the title file of the proposal. Here's the page view title application.

Figure 4. Title application page view

Guidance Application Page Display

This page students apply for guidance where students can make a message to the lecturer for final project guidance. Here's a look at the request for guidance.

Figure 5. Guidance application page display

Submit Final Project Page View

On this page, students send their final project report to the lecturer the supervisor and his supervisor can approve the assignment report the end or revise it. Here's what the submit assignment page looks like end.

Figure 6. Submit final project page view

Lecturer Login Page Display

On this login page, the lecturer enters the desired username and passwordaccording to what the admin has made. Here's what the lecturer login page looks like.

Figure 7. Lecturer login page display

Lecturer Home Page Display

On the lecturer's home page display there are several buttons like see title, see the final project, guidance on report results and lecturer profiles.

Page View Title

On the display of this page, the submission of titles by students who supervised by the lecturer concerned. Furthermore, the lecturer agrees or whether or not the title of the report. Here's can bee seen at Figure 8.

Figure 8. Page view title

Page View Final Project

On this page the final assignment sent by a lecturer the supervisor is displayed, then the lecturer sees, comments and approve or not the final project report. Here's the view see final project.

Figure 9. Page view final project

Guidance Page View

On this guidance page the message sent by the student to The supervisor appears and the lecturer can reply to messages student. Here's how the guidance page looks.

Figure 10. Guidance page view

Report Results Page Display

On this page are the results of the guidance that has been carried out by students with supervisors. In the results of this report, guidance can be printed as proof that the student has done final assignment guidance. Here's a display of the results of the report.

Figure 11. Report results page display

The results of this study are expected to contribute to increasing the efficiency and accuracy of the thesis title submission process at the Muhammadiyah University of Palembang. The use of a web-based information system can reduce the time and effort required in submitting thesis titles.

IV. Conclusion

The development of a web-based thesis title submission information system has the potential to optimize the process of submitting thesis titles for students and lecturers at the Muhammadiyah University of Palembang. With this system, it is expected that students can focus more on preparing their thesis and lecturers can be more effective in guiding students. For further development, it is suggested that this system can be integrated with existing academic information systems at universities and can be extended to other educational institutions. In addition, the implementation of training for users is also important so that the system can be utilized optimally.

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