Application for Submission of Research Recommendations and Practice Work Web Based

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Abstract — Application Submission of Recommendations for Research and Job Training which is often late hampers students who will carry out Research and Practical Work activities that will be carried out at institutions in Karawang, making students have to spend time visiting the Kesbangpol office where sometimes the completion of the letter is not clear when the completion completed, and also because of the head of the Office's signature problem. The research method used is to use the Waterfall method which in this method includes needs analysis, design, implementation, verification, and maintenance. Therefore it is hoped that after the design and recommendation system of a recommendation letter system/tools proposed by the author, it is useful for efficient time for students who will submit a recommendation letter for research and practical work to agencies in Karawang Regency and students do not have to go directly to the Kesbangpol office. Karawang Regency to submit a recommendation letter.

Keyworld: Applications, recommendations, research letters, practical work.

I. INTRODUCTION

Local government has a function in serving the community in administrative and bureaucratic matters. Local governments have various Regional Work Units (SKPD) that carry out their main tasks for the benefit of the community. Regional Apparatus Work Units (SKPD) are elements of regional government administration that to achieve success need to be supported by excellent planning by the organization's vision and mission [1]. A letter of recommendation is bidding made by a certain leader or official that contains information about a person's situation based on authentic data available because the party concerned has asked for his interest [2].

One of the Karawang Regency Regional Work Units, namely the Office of National Unity and Politics (Kesbangpol) of Karawang Regency has the main task of assisting the Regent in carrying out regional government affairs based on the principle of autonomy, namely in the preparation and implementation of regional policies in the field of National Unity and Politics [3]. The National Unity and Political Agency also have tasks including collecting data on the names of the management structure of the secretariat address for all community organizations, non-governmental organizations located in Karawang Regency and also providing guidance for community organizations, non-governmental organizations in Karawang. 1 (one) year and Kesbangpol always takes action against problems that occur between Ormas and other parties using mediating for the sake of unity and integrity as well as conduciveness.

The National Unity and Political Agency also have a duty to facilitate or provide letters of recommendation/introduction to student activities or institutions that will conduct research or carry out practical work. The recommendation letter will be shown to government agencies in Karawang, which if students or institutions that are going to make a recommendation letter must first come to the Kesbangpol office to find out what

There are only requirements needed to submit a recommendation letter. The process of making a recommendation letter from the Kesbangpol Office is relatively short and easy because there is already a certain format for employees, however, the recommendation letter must be signed by the Head of Kesbangpol Karawang, which sometimes the head of Kesbangpol has duties outside the office so that when asked to sign it is quite difficult to contact and difficult to ask.
for free time to sign recommendation letters that have been submitted by students or institutions. That is to save time, therefore researchers will create a web-based information system which will make it easier for students or institutions that will submit letters of recommendation addressed to government agencies located in Karawang, students or institutions only need to open a website which will later be designed by the author, in submitting a letter of recommendation. If a student/institution is going to submit a recommendation letter, the student/institution must have the requirements needed by Kesbang employees, including, KTP, KTA, a letter from the university, if a web-based information system has been designed, the office of national unity and student politics and institutions is only sufficient. Scanning and entering it into the system that has been designed by the author, then the student who will submit also lists which agency it is intended for, and from what date and until what month the student will conduct research / practical work activities, then if the letter has been approved by the employee a notification will appear in the system, and students just need to print the proposed recommendation letter for submission, to the place of the agency to be examined or to do practical work.

Therefore, the author will design a "Application for Submission of Recommendations for Submission of Research and Job Training Case studies at the Office of National Unity and Politics of Karawang Regency” so that students or institutions that will make recommendation letters do not have to come to the office directly and it is easier and more efficient time.

II. METHOD

The results of this study are using the Waterfall method wherein this method includes needs analysis, design, implementation, verification, and maintenance, producing some of the data needed by the author to design a web-based recommendation letter system, all of the research results are obtained by observing, directly at the place of researchers and interviews with several users related to research and data collection to achieve this research [4]. The following is Figure 1. Research flow

SYSTEMS DEVELOPMENT METHODOLOGY

The methodology used in system development

Several stages of the waterfall methodology, namely:

1. Requirements analysis, collecting the complete needs then analyzed and defined the needs that must be met by the program to be built [6]. Data collection was carried out by the author through observation, interviews and documentation.
2. Design, in this stage the developer will produce an overall system and determine the software flow to a detailed algorithm [5].
3. Implementation is the stage where the entire design is converted into program code. The resulting program code is still in the form of modules that will be integrated into a complete system [7].
4. Integration & Testing. This stage is carried out by combining modules that have been made and this testing is carried out to find out whether the software made is in accordance with the design and functions of the software [8].
5. Verification is the client or user tests whether the system is approved [9].
6. Operation and Maintenance, namely the installation and repair process of the system as approved [10].
A. Activity diagram
Activity diagrams are used to describe various activity flows in a system that is being designed and how each flow begins [12]. The following is a Figure 4, a diagram of the proposed recommendation system activity.

B. Class diagram
Class diagrams are used to explain the structure of the system in terms of defining the classes that will be made to build a system [13]. The following is Figure 5, class diagram of the recommendation system.
In Figure 7. Below below will display a dashboard displaying several menus that can be used by the user. Then the user can use the menu as needed by the user.

The image below displays a dashboard displaying a recommendation menu that can be used by the user in submitting a recommendation letter.

Figure 8 This is the user's main page

The image below displays a dashboard displaying a recommendation menu that can be used by the user in submitting a recommendation letter.

Figure 9. Below is the user recommendation menu page

IV. CONCLUSION

Based on the description and overall discussion, the application for submitting research recommendations and practical case study work at the National Unity and Political Office of Karawang Regency, conclusions can be drawn, as follows:

1. To optimize the submission of recommendation letters, this application is made to provide more effective information, and students who submit recommendation letters at Kesbangpol can submit recommendation letters for more than one submission of research recommendation letters or practical work.

2. Creating a web-based application of recommendation letters can make it easier for the admin to verify or validate the submission of recommendation letters so that students do not fill the Kesbangpol office.

DAFTAR PUSTAKA


