

APPLICATION DESIGN USE OF THE LANGKAT COMMAND CENTER HALL

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ABSTRACT

In today's world of digitalization, many government and private agencies have implemented it, this is a form of manifestation of following the development of technology that follows the times so that the agency is not outdated. Langkat communication and informatics office has a langkat command center hall that can be used for agencies in the langkat district that will conduct activities. However, the system for submitting usage is still offline, namely by using paper media as an intermediary for communication in submitting requests for use. Of course, things like this have several obstacles, namely the slow approval process and sometimes the application letter data is not well served. In this era of information technology, of course, the Department needs an application that can help to process data on the use of the Langkat Command Center Hall using digitalized media. Therefore, in this study built an application for the use of Aula Langkat Command Center. With the aim that it can help the department to manage the data use of the hall effectively, efficiently and can improve the quality of service and reduce processing time and minimize errors.

Keywords:

Application, Usage, Langkat,
Command Center,
Digitalization



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INTRODUCTION

In today's digital era, technology has developed rapidly and become an inseparable part of human needs. Even in everyday life, many people depend on technology[1]. The presence of technology also facilitates access and dissemination of information quickly and efficiently. Various information systems were developed to make it easier to manage, obtain, and access the data needed, one of which is through the use of website-based technology. This technology can be operated through a computer and allows for more practical and efficient data management [2]. The need for information technology in the world of work or government or private institutions is already one of the needs that must be used, in order to

support the quality of work and also improve the quality and service of data or information processing [3].

The Department of Communication and Informatics of Langkat has a langkat command center hall that can be used for agencies in the district of Langkat that will conduct activities. Where the process for using the hall is done by submitting an application letter sent to the Communications and Informatics Office. The incoming application letter will then be processed to the top for approval. If the request letter is approved, then the superior will order the employee or appoint an employee as the implementing coordinator in terms of the use of the Langkat Command Center Hall [4].

The system used in the use of the Langkat Commad Center Hall is still offline, namely by using paper media as an intermediary for communication in submitting requests for use. Of course, the system used has several obstacles and problems encountered, namely the slow approval process, the submission file data is not stored properly, sometimes the application letter data is not well served and the process of appointing or assigning employees assigned as coordinators is sometimes not well recorded which in its implementation there is a communication error between fellow employees in the agency [5].

In this era of information technology, of course, the Department needs an application that can help to process data on the use of the Langkat Command Center Hall using digitalized media. Therefore, in this study, an application was built to use the Langkat Command Center Hall. With the aim that it can help the department to manage the data use of the hall effectively, efficiently and can improve the quality of service and reduce processing time and minimize errors [6].

By combining qualitative and quantitative methods, this research analyzes user experiences, identifies barriers during the implementation process, and evaluates improvements in overall administrative practices. This research aims to provide useful insights for the development of future digital initiatives in the context of local government governance, particularly by highlighting the role of technology in transforming administrative operations at the Langkat Regency office [7].

With the development of information technology, many government and private institutions are switching to web-based systems to manage application data, one of which is the use of the Hall [8]. The web-based Langkat Command Center Hall usage application is designed to facilitate the application process that can be done through computerized by submitting online.

This application offers a solution to the problems that exist in the manual system, not only allowing a faster submission and approval process, but also providing features to generate reports that can be printed in the form of pdf files whenever needed [9]. Thus, it is expected that this application can improve the efficiency and effectiveness of the Kominfo Office services in the use of the Langkat Kominfo Hall. In addition, the agency is one of the agencies that have implemented or used a digitalization-based information technology and will certainly be a pride of its own for the agency has realized the use of information technology [10].

METHODS

This research was conducted through several stages in order to be able to answer the existing problems and produce findings that are in accordance with the predetermined objectives [11]. This research uses a mixed method approach, combining qualitative and quantitative techniques to assess the implementation of the Langkat Command Cente Hall Usage application at the Langkat Communication and Information Office. The research stages can be seen in the figure below:

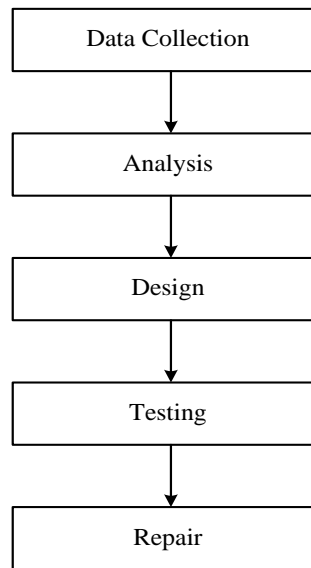


Figure 1. Research Framework

The following is a description and explanation of the research stages that must be carried out, namely :

1. Data Collection

This stage is carried out to collect data. Data collection is carried out to obtain the information needed in order to achieve research objectives.

2. Analysis

This stage is carried out based on the data obtained, namely bag sales data. From the bag sales data, an overview of the system to be created is obtained, one of which is an overview of the input used to conduct bag sales transactions.

3. Design

This stage is made based on the results of the data analysis obtained, thus the system is made racangannya will adjust to the data user hall Langkat Command Center. The results of the data analysis resulted in the design of the Web-based Langkat Command Center hall usage application that is the design of input, process and output.

4. Testing

This stage is carried out to determine whether all functions in the application are running or not and to know the level of error and the success of the application made based on the response inputted by the user.

5. Repair

this stage is carried out to repair the system if there is a sub-system that does not work or there is a part of the system that does not run as expected by fixing program codes that experience failures or errors.

RESULTS AND DISCUSSION

The application of using the Langkat Command Center Hall provides a variety of meaningful benefits. The user-friendly and easy-to-understand interface design makes it easy for users to submit applications quickly. A transparent submission system allows users to monitor the status of their requests directly. In addition, flexible access allows applications to be made at any time through various digital devices. Through this system, the government and related agencies can increase user satisfaction, strengthen transparency, and encourage participation in efforts to improve services to agencies related to the use of the Langkat Command Center Hall..

User Page View

The user page display is the display that will appear when the user opens the program. On the user page there will be several menus namely home, profile, account registration and login. Home to display the start page, Profile to display information relating to the Langkat Command Center, Account Registration displays account registration for users to apply for use and login to log in as a user:

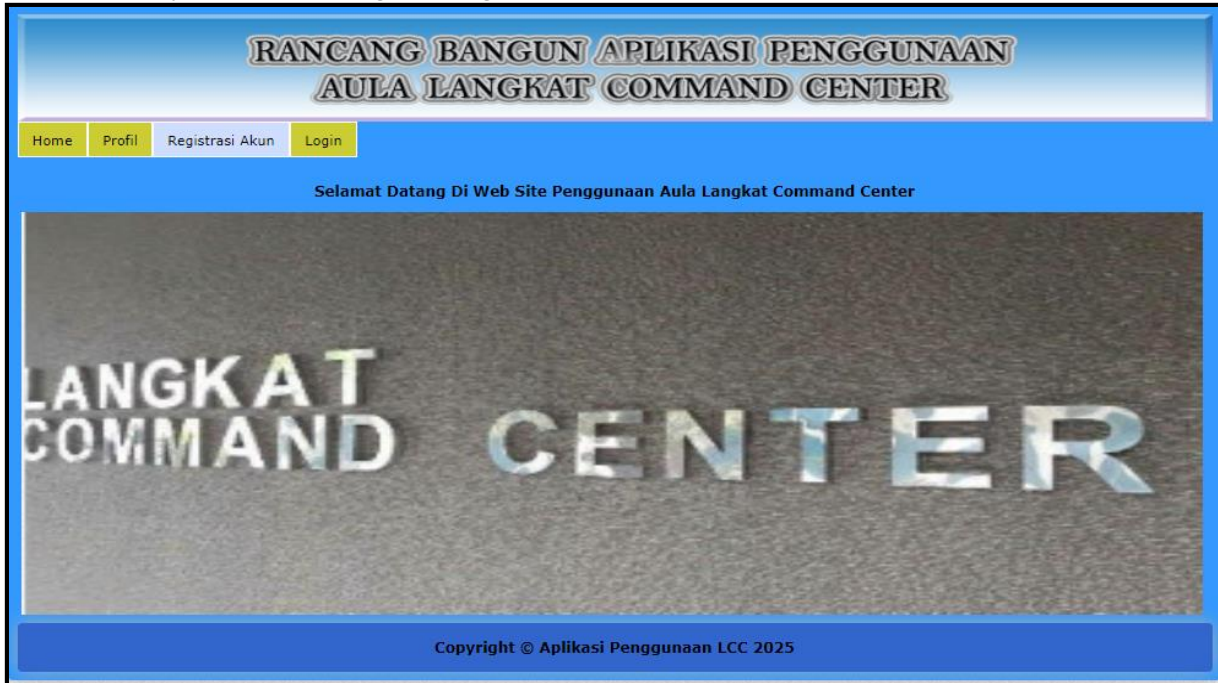


Figure 2. User Page View

Submission Menu Display

The submission menu display is a display that can be used by users who have logged in as users to make submissions or requests by filling in some submission data. The following is an image of the submission menu display: :


The screenshot shows the submission menu display. At the top, there is a title bar with the text "RANCANG BANGUN APLIKASI PENGGUNAAN AULA LANGKAT COMMAND CENTER". Below the title bar, there is a navigation menu with four items: "Home", "Pengajuan", "Status", and "Keluar". The "Pengajuan" item is highlighted. Below the navigation menu, there is a title for the submission form: "PENGAJUAN PENGGUNAAN AULA LANGKAT COMMAND CENTER". The form contains several fields for user information: "Nomor Pengajuan" (PJN-003), "Tgl Penggunaan" (06/26/2025), "NIP" (1987098987981009), "Nama Lengkap" (Anita), "No Telepon" (0852-7887-9009), "Dinas" (Kesehatan), "Penanggung Jawab" (Kabid Humas Kesehatan), "Kegiatan" (Sosialisasi Kesehatan), and "Keterangan". Below the form, there are two buttons: "Pengajuan" and "Batal". At the bottom of the page, there is a copyright notice: "Copyright © Aplikasi Penggunaan LCC 2025".

Figure 3. Submission Menu Display

Admin Page View

The admin page view is a view that will appear if the user is logged in as an admin. On the admin page there are several menus, namely the account menu, submission menu, process menu, report and exit. The account page display can be fully utilized by the admin user to process the data in the menu. The following is an overview of the admin page display:



Figure 4. Admin Page View

Submission Data Menu Display

The submission data menu display is a page that has a function to manage submission data, namely adding, changing and deleting submission data. The admin user has the function to change the status of the submission submitted by the user. In addition, admin users can also use the submission data search facility. The following is an image of the Submission Data Menu page display:



Figure 5. Submission Data Menu Display

Approval Data Menu Display

The approval data menu display is a page that has a function to manage approval data, namely adding, changing and deleting approval data. The following is an image of the display of the approval data menu page:

No	No Persetujuan	Tanggal Persetujuan	Nomor Pengajuan	Nama	Dinas	Petugas Pelaksanaan	Keterangan	Aksi
1	PST-001	7-06-2025	PJN-001	Budiman Syahputra	Pendidikan	Andika	-	Edit Hapus
2	PST-002	09-06-2025	PJN-002	Agus Budiman	Pemuda dan Olah Raga	Agus Syahputra	-	Edit Hapus

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Figure 5. Approval Data Menu Display

CONCLUSION

This hall usage system application plays an important role in improving the quality of service for agencies that want to use the Langkat Command Center Hall. The ease of the submission process and the transparency of information about the status of the application that can be monitored in real-time by the applicant are the main advantages. In addition, a simple and easy-to-understand interface makes this system an efficient solution in supporting the improvement of services for the use of the Langkat Command Center Hall.

SUGGESTION

From the results of the development of this application system, there are still some shortcomings that can be used as a reference for further development. These things can be suggestions and considerations in an effort to improve the quality of the system in the future. The following are some suggestions that can be used as future application development, namely.

1. There is no notification feature to notify the applicant if the application status is accepted or rejected.
2. It is necessary to add some features to improve the system, namely the data back up feature.
3. The system display is still simple and needs to be developed to be better, interactive and flexible..
4. The security system is still low and needs to be improved so that system data can be protected from irresponsible attacks.

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