

WEBSITE-BASED VILLAGE STAFF APPLICATION INTERFACE DESIGN

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Abstract: This study aims to build an application for staff attendance at the Besilam village office. Because the process of storing list data is currently still doing the manual way. Data storage like this can cause data to be insecure in its storage. The design used to build web-based applications in this study is the design of the system and interface. With this design, it can help users in operating the village staff attendance list application that is created.

INTRODUCTION

In the current era of globalization, mastery of technology becomes prestige and an indicator of a country's progress. Countries are said to be developed if they have a high level of mastery of technology (high technology), while countries that cannot adapt to technological advances are often referred to as failed countries (Ngafifi, 2014). In other words, the development of science and technology can affect a person's way of life (Azizah et al., 2022). Therefore, the use of information and communication technology in the form of computer media is also the reason why archives must be managed electronically (Putra et al., 2022). The development of today's technological world from time to time is very rapid along with the increase in the need for fast and efficient services. In a business activity such as a company, it really needs human resources who are able to utilize technology as a tool to support the quality and productivity of the business (Putra & Rezeki, 2022).

Design is an activity that has the aim of designing a new system that can solve the problems faced by the company obtained from the selection of the best alternative system (Septi & Wellia Shinta, 2015). The system can be interpreted as a collection or set of elements or variables that are organized, interacting, and interdependent on each other (Ismail, 2019). The system is composed of objects or elements that are related or related to each other in such a way that these elements constitute a certain processing or processing unit (Fitri Ayu and Nia Permatasari, 2018).

Application is the implementation, storage, data, problems, work in a media that can implement existing problems and become something new without losing the basic

values of a data, problem, work itself (Karnadi et al., 2021). An application is a subclass of computer software that utilizes the capabilities of a computer directly to perform a task desired by the user (Putra et al., 2023). Website is a collection of web pages and supporting files, such as images, videos, and other digital files stored on a web server that can generally be accessed via the internet (Suhartini, 2020).

At the Besilam village office, the process of storing data on the current list is still doing the manual method. Data storage like this can cause data to be insecure in its storage. Therefore, researchers will make an application system for the presence of computerized village staff that is quite adequate. So that the report that will be needed can later be processed appropriately by the Besilam Village Office, Padang Tualang District. From the problems that have been obtained so that researchers can get a solution to their handling by applying a web-based Besilam village staff attendance application.

RESEARCH METHODS

The method used to conduct this research is able to answer the problems being studied, aiming to make the research more structured and conceptualized. So that each stage will see its achievement in accordance with the expected goals. The flow of research conducted in this study is as follows:

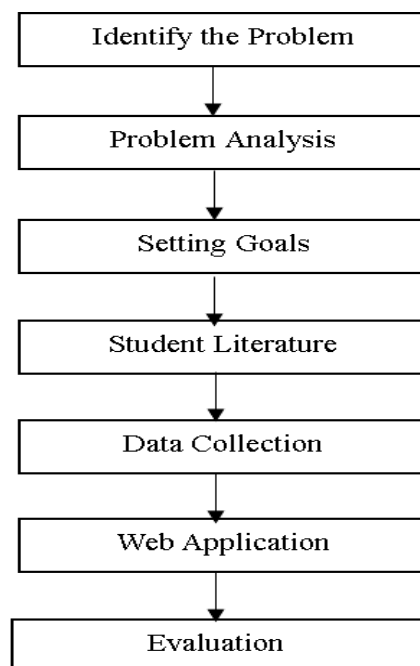


Figure 1. Research Flow

Based on the picture above, each step can be described as follows:

1. Problem Identification is the first step carried out in this study which aims to understand the problem to be studied
2. Problem Analysis is a step to understand a problem whose scope or limits have been determined. By analyzing predetermined problems
3. Determining Goals Based on an understanding of the problem of the problem, the objectives to be achieved in this study are determined
4. Studying literature is literature that is expected to be used in this research. Literature sources are obtained from the library of Universitas Pembangunan Pancabudi, books and journals that discuss web-based application systems.
5. In Data Collection, researchers come directly to the research site to ask about the data under study
6. Website at this stage researchers will create a new system using a website-based application
7. Evaluation is making a report from research containing a research report on the problems and solutions that exist in the object under study.

The data collection techniques used in this study are as follows:

1. Field studies are carried out by observation, namely direct observation at the research site so that existing problems can be clearly known, then interviews are conducted aimed at obtaining the information or data needed
2. Literature study Conducted in the form of a literature study is carried out with the aim of knowing the process of making web-based applications that will be used to solve the problems to be studied, as well as getting strong reference bases for researchers

At this stage of data analysis, the activities that will be carried out include:

1. Processing data from surveys and interviews with the Besilam Village Office, Padang Tualang District, Langkat Regency, North Sumatra Province
2. Provide conclusions based on the results obtained from the data storage process.

RESULTS AND DISCUSSION

The results of this study are system design in the form of system design using Unified Modeling Language consisting of use case diagrams, activity diagrams, squency diagrams and class diagrams and interface designs.

A. Design System Use Case Diagram

The admin can access everything in the system, marked by an arrow leading to the use case.

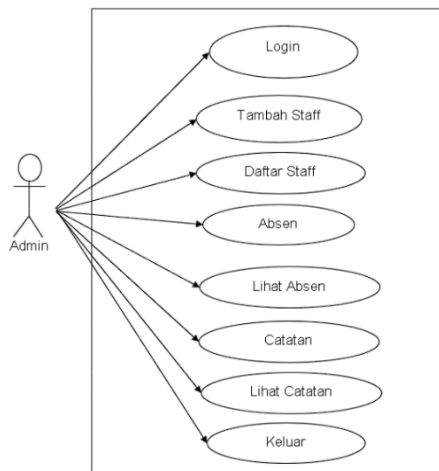


Figure 2. Use Case Diagram Admin

Staff can log in and fill in absences and make notes marked with arrows leading to the use case.

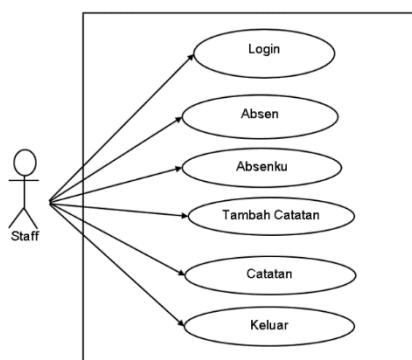


Figure 3. Use the Case Diagram Admin

B. Design Activity Diagram

Activity diagrams are techniques for describing procedural logic, business processes and work flows in many cases. Activity diagrams illustrate how the activities that occur in the system are to be designed.

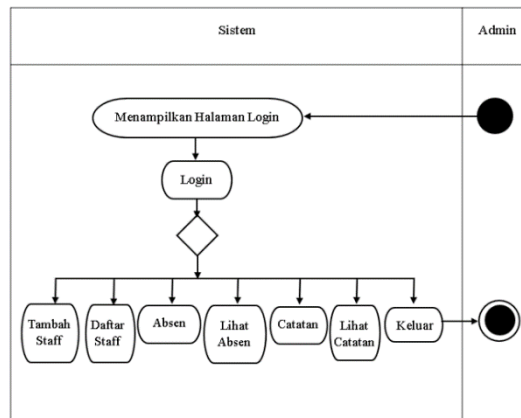


Figure 4. Activity Diagram Admin

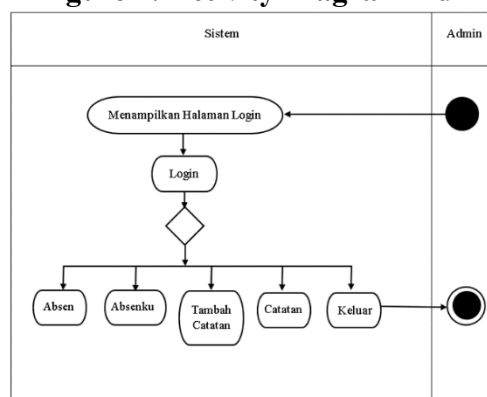


Figure 5. Activity Diagram Staff

C. Design squency Diagram

Sequence diagrams are used to describe the behavior of actors in a system in detail according to time.

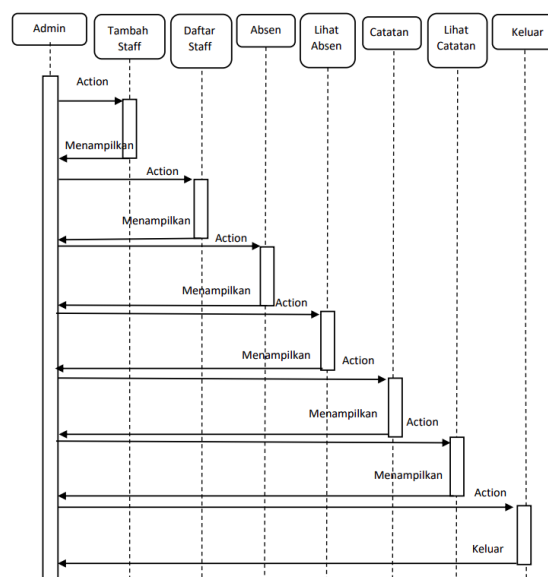


Figure 6. Squence Diagram Admin

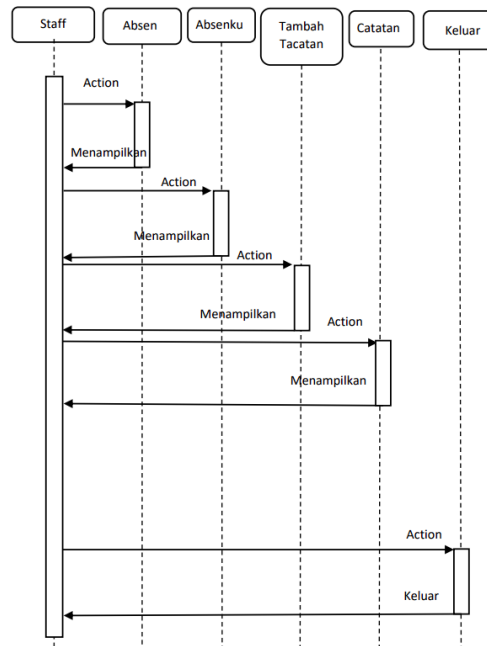


Figure 7. Squence Diagram Staff

D. Design Class Diagram

The diagram class provides an overview of the relationships between the tables in the database. Each class has attributes and methods or functions according to the process that occurs

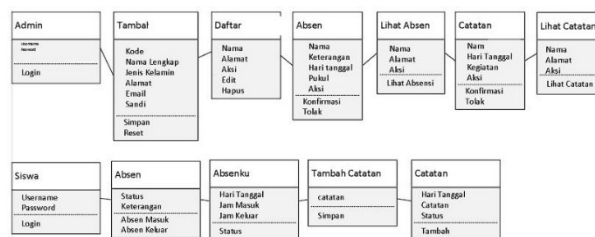


Figure 8. Class Diagram

E. Rancangan Interface

In this case, the interface design is designed by researchers based on needs and interests. The design is as follows:

1. Design Login Admin

This design is a design for admin logins on the system. Here is the picture below;

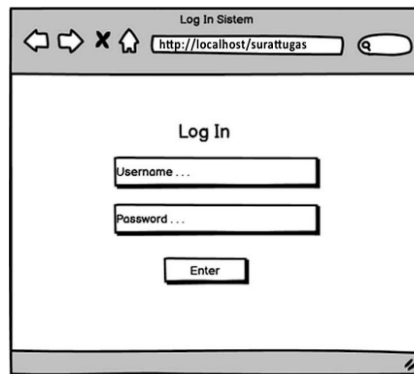


Figure 9. Design Login Admin

2. Design Add Staff

This design is a display to add staff data to the system. Here is the picture below;

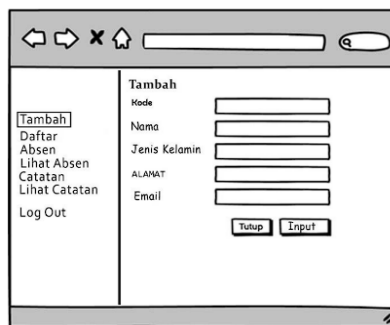


Figure 10. Design Add Staff

3. Design List Staff

This design is a display to see the list of staff names in the system. Here is the picture below;

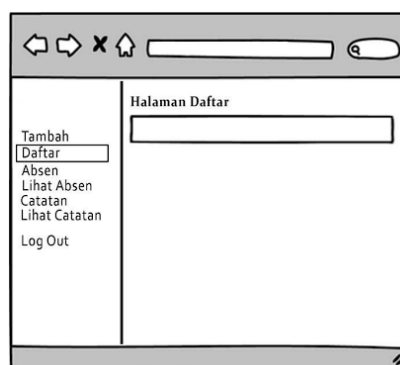
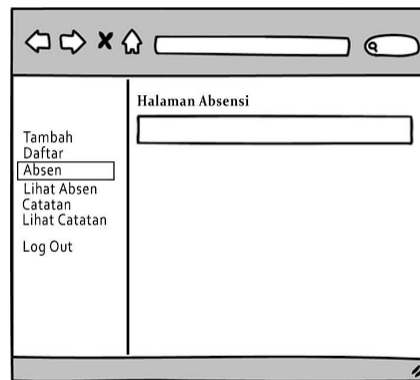


Figure 11. Design List Staff

4. Design Absen

This design is a display for confirmation of absences in the system. Here is the picture below;



Gambar 12. Design Absen

5. Design View Absence

This design is a display for confirmation of existing Staff records in the system. Here is the picture below;

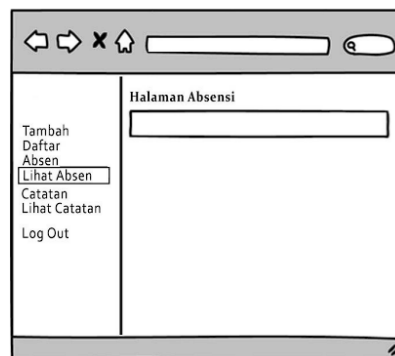


Figure 13. Design View Absence

6. Design Note

This design is a display for confirmation of existing Staff records in the system. Here is the picture below;

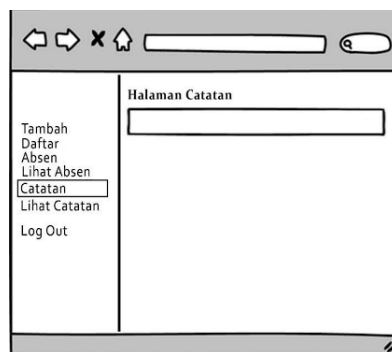


Figure 14. Design Note

7. Design View Notes

This design is a display to see staff records in the system. Here is the picture below;

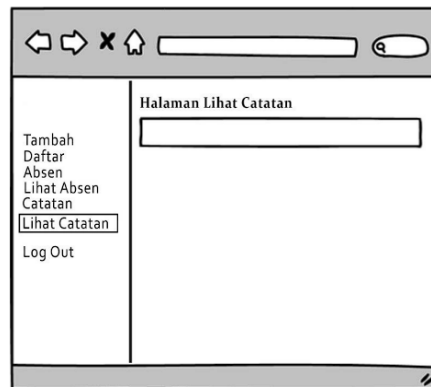


Figure 15. Design View Notes

8. Design Login Staff

This design is a display for staff logins in the system. Here is the picture below;

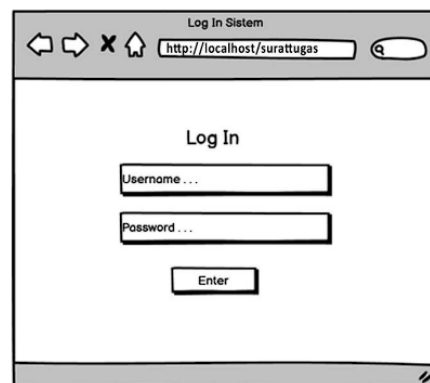


Figure 16. Design Login Staff

9. Design Absen

This design is a display for staff absences in the system. Here is the picture below;

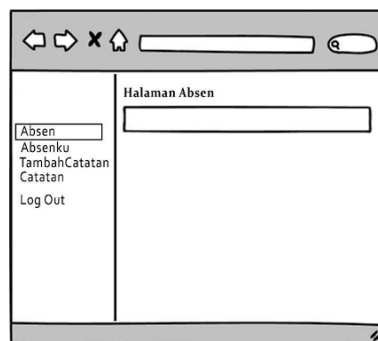


Figure 17. Design Absen

10. Design My Absen

This design is a display to see the absence of staff in the system. Here is the picture below;

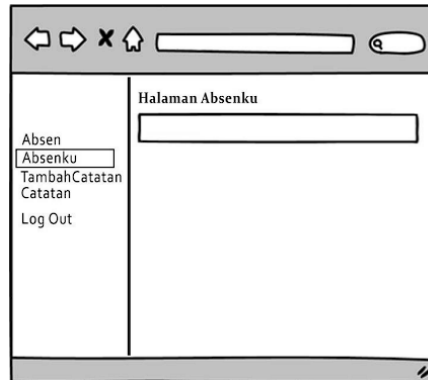


Figure 18. Design My Absen

11. Design Add Note

This design is a display to add staff records to the system. Here is the picture below;

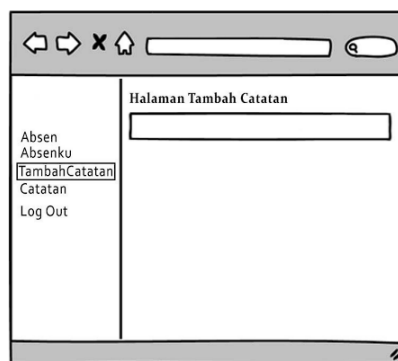


Figure 19. Design Add Note

12. Design Note

This design is a display to see staff records in the system. Here is the picture below;

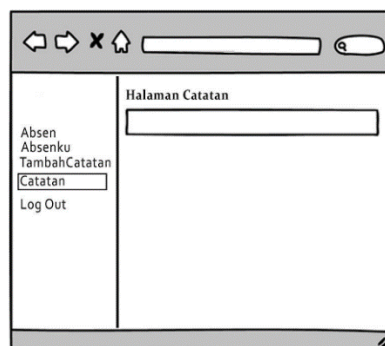


Figure 20. Design Note

CONCLUSION

Based on the results of the design above is an overview of the application to be created and

the form of application use, and it can be concluded that with the existence of a web-based application researchers make this can help in storing data on the presence of village staff and the system that has been built has a positive impact on the village office because the application is very easy to use and data storage is safe.

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