



## Website Design for the Sukarami Village Head's Office

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### Abstract

The Sukarami village head office is under the auspice of the village government which has an Organization structure the sukarami village head office is the village head office located in sukarami village, rambang district, muara enim reGENCY, south Sumatra province. Currently, the sukarami village head office does not have a website so that everyone can find out about the village head office to find out information such as village profiles, history of village activities, village programs, village structures, infrastructure owned by the village, and information on social assistance from the government and regions. The purpose of this study is to build a website so that the community can more easily find out about what is in the sukarami village head office. The research method uses a descriptive qualitative method with data collection in the form of observation, interviews and literature studies. The type of data consists of qualitative data, and data sources consist of primary data and secondary data. The device development method uses the rapid application development method. The system design tools used are the care diagram class diagram the website uses the PHP and MySQL programming languages.

**Keywords:** Website, PHP & MySQL, RAD, UML

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## 1. Introduction

In today's digital era, information technology has become a fundamental need to support various activities, including government. Current village development is inseparable from the development of information technology, ranging from the simplest, such as the use of mobile phones to smartphones, to the use of the internet with various features aimed at assisting people in carrying out daily activities not only in urban areas but also in rural areas. Included in the development of information technology is a study of the design, implementation, development, support, and management of computer-based information systems, particularly in hardware and software applications [1]. Currently, the Sukarami Village Head's office does not have a website. This allows everyone to find information about the Head's Office anywhere without having to come to the Sukarami Village Head's Office to find information such as the Village profile, history of Village activities, Village programs, Village structure, Village infrastructure, and information on social assistance from the government and regional governments. Information is still delivered through loudspeakers and posted in the village office in the hope that the public will read the announcements, but only a small percentage of the community takes the time to read them. Based on the above problems, the author is interested in conducting research entitled "Website Design for the Sukarami Village Head's Office."

## 2. Theoretical Basis

### 2.1. Understanding Design and Construction

According to [2], "Design is the depiction, planning, and sketching or arrangement of several separate elements into a unified whole". According to [3], "Design is the post-analysis stage of the system development cycle, which defines functional requirements and describes how they are formed, which can take the form of depictions, planning, and sketching or arrangement of several separate elements."

### 2.2. Understanding Websites

According to [3], "A website is a collection of information or a collection of pages that are usually accessed via the internet. Everyone in various places and at all times usually uses it as long as they are connected online to the internet network". According to [4], "A website or site can be defined as a collection of pages used to display text information, still or moving images, animations, sounds, and/or a combination of all of these, both static and dynamic, that form a series of related buildings, each connected by networks."

### 2.3. Understanding Hypertext Preprocessor (PHP)

According to [5], "Hypertext Preprocessor (PHP) is classified as open source software regulated by general-purpose licenses. The PHP programming language is well-suited for web development because PHP can be embedded within HTML scripts or vice versa". According

to [6], "Hypertext Preprocessor (PHP) is a server-side programming language used to translate a program's code base into machine code that can be understood by a computer and is appended to HTML."

#### 2.4. Understanding Xampp

According to [7], "XAMPP is free software that supports multiple operating systems, which is a combination of several programs." According to [8], "XAMPP is a tool that provides software packages in a single package." According to [9], "XAMPP is a tool for storing files needed to create program designs."

#### 2.5. Understanding MySQL

According to [10], "MySQL is used to store various data in a database and manipulate the data as needed." According to [11], "MySQL is a database server program that can receive and send data very quickly, is multi-user, and uses basic SQL commands."

### 3. Research Methods

#### 3.1. Data Sources

The following are the data sources used by the researcher in this thesis:

1. Primary Data  
The primary data sources in this thesis are data obtained directly from the village head and secretary of Sukarami village, namely Mr. Sumadi, the village head, and Mr. Herman Diansyah, the village secretary.
2. Secondary Data  
Secondary data is data that supports primary information obtained from documents, reading materials, the internet, and observation.

#### 3.2. Data Collection Techniques

The techniques used in this study were as follows:

1. Observation  
This activity was conducted by collecting data through direct observation at the research object, namely the Sukarami Village Head's Office.
2. Interviews  
Interviews were conducted to obtain data directly through a question-and-answer session with informants. The study interviewed the village head, Mr. Sumadi, and the village secretary, Mr. Herman Diansyah, regarding the problems they experienced.
3. Literature Review  
In this literature review, the author collected data and information from various sources, including books, journals, theses, and documents related to the system to be developed.

### 4. System Analysis and Design

#### 4.1. Proposed Class Diagram

A class diagram shows the interactions between classes in a system. Classes contain information related to that information. The following is a proposed class diagram for this system:

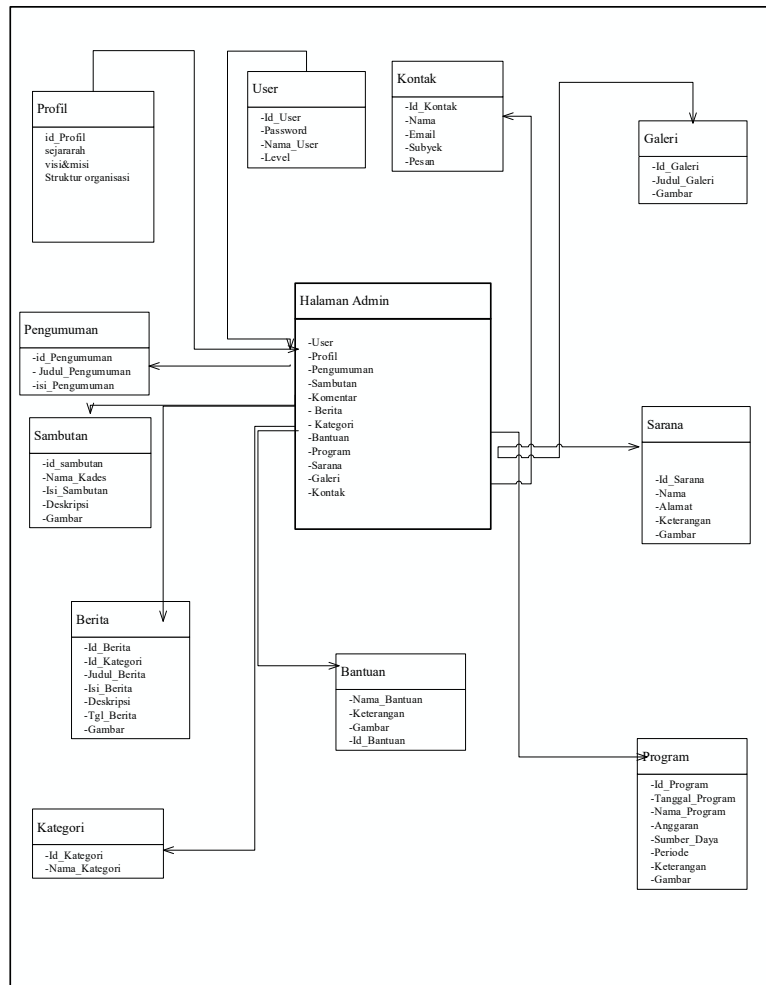


Fig. 1 : Proposed Class Diagram

## 5. Implementation and Testing

### 5.1. Interface Implementation

In the interface implementation section, the researcher created the website display as follows:



Fig. 2 : Front End Page View

The image above shows the front end display containing the menus on the Sukarami village head's office website.

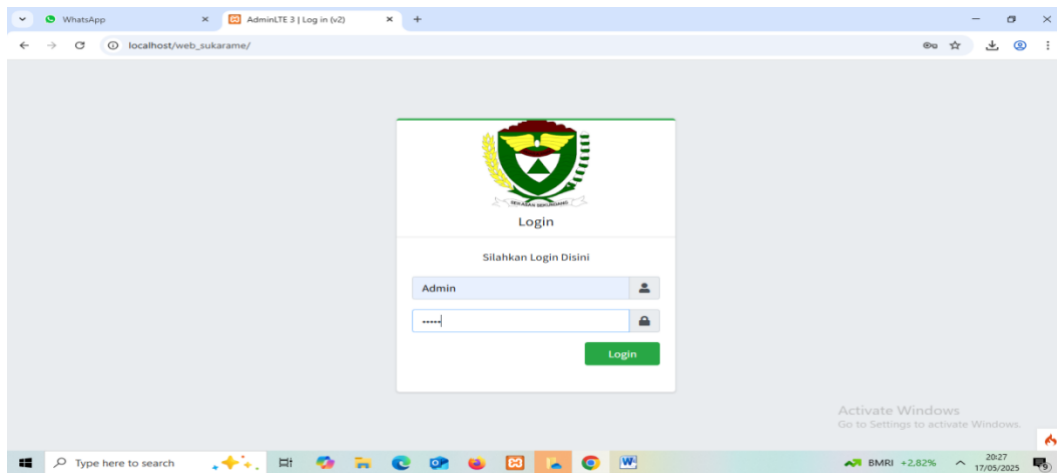


Fig. 3 : Login Page Display

In Figure 3 is the login page display which will later function for village admins who want to enter and use the system, the admin must first log in by filling in the username and password.

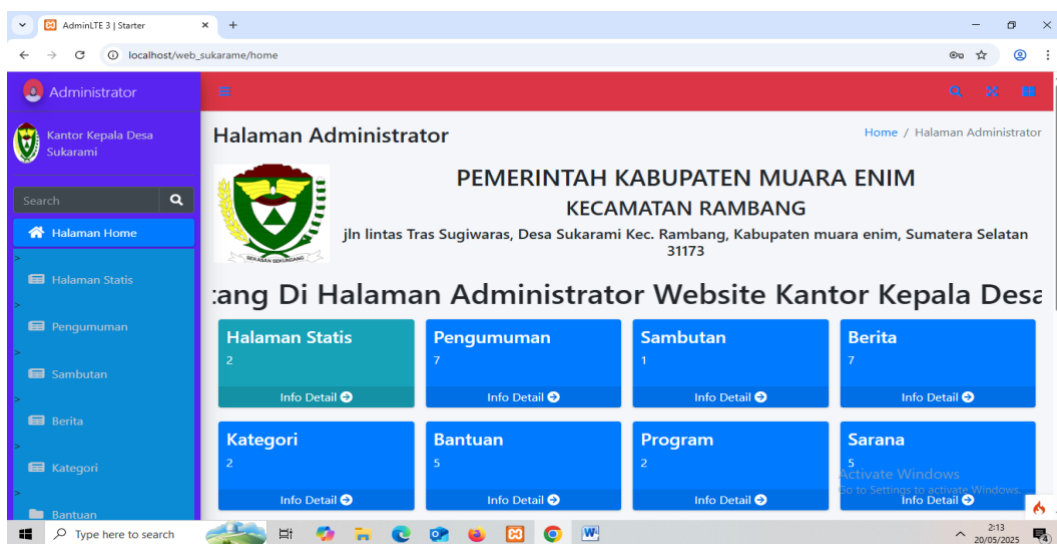


Fig. 4 : Home Page Display

In figure 4 is the display of the home page, all menus are on the home display so the admin can click through the home page.

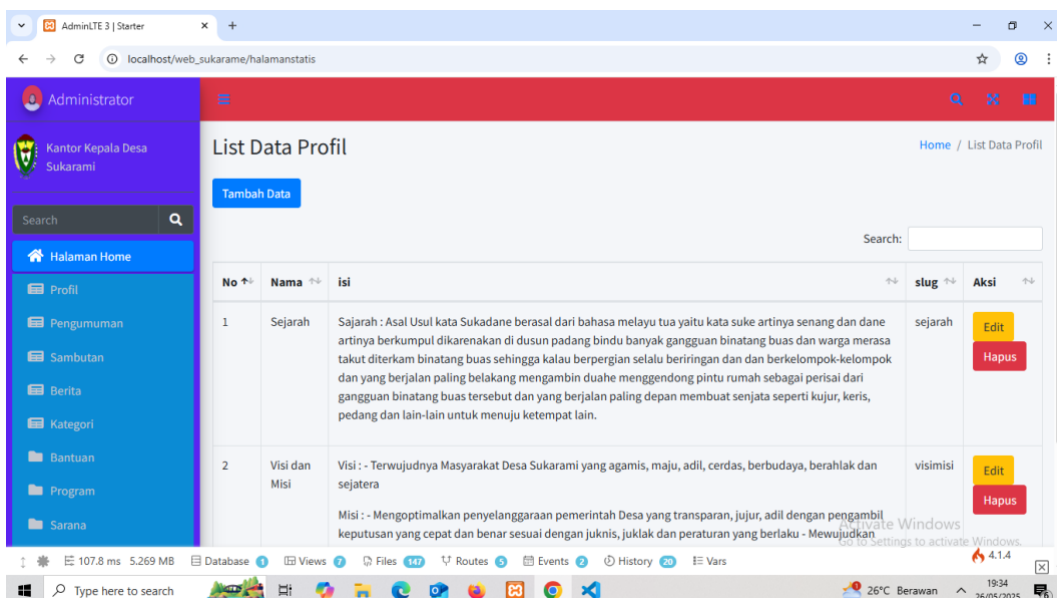


Fig. 5 : Static Page View

Figure 5 shows a static page view, allowing admins to add, edit, and delete data. Once added, they can edit and delete data.

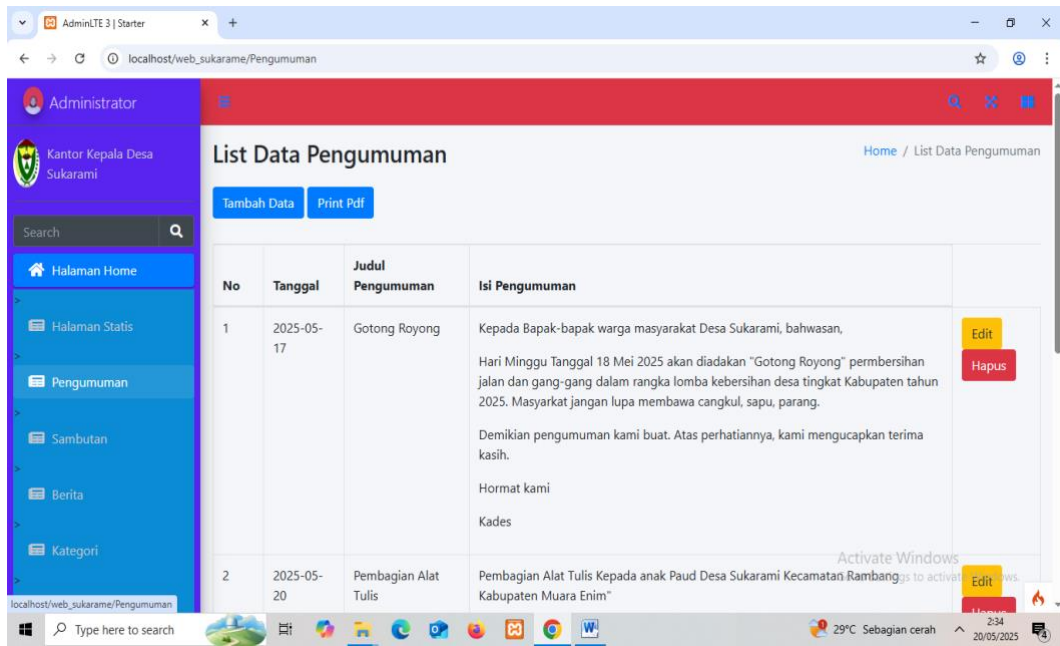


Fig. 6 : Announcement Page View

Figure 6 shows the announcement page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data, and then print it as a PDF.

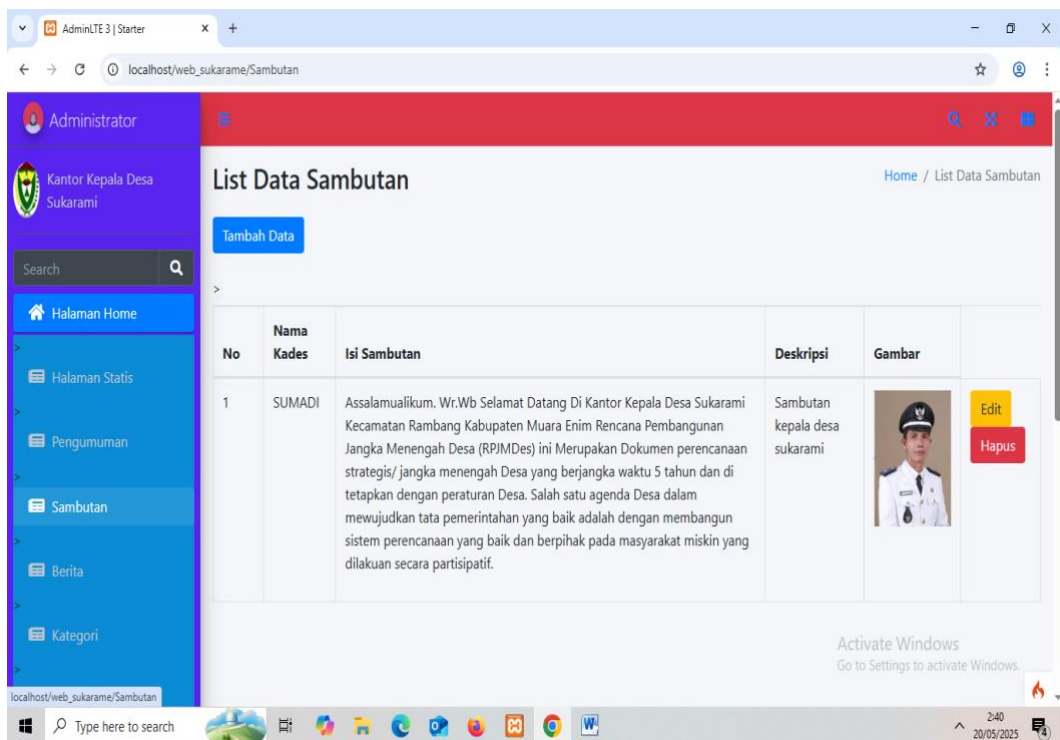


Fig. 7 : Welcome Page View

Figure 7 shows the welcome page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data.

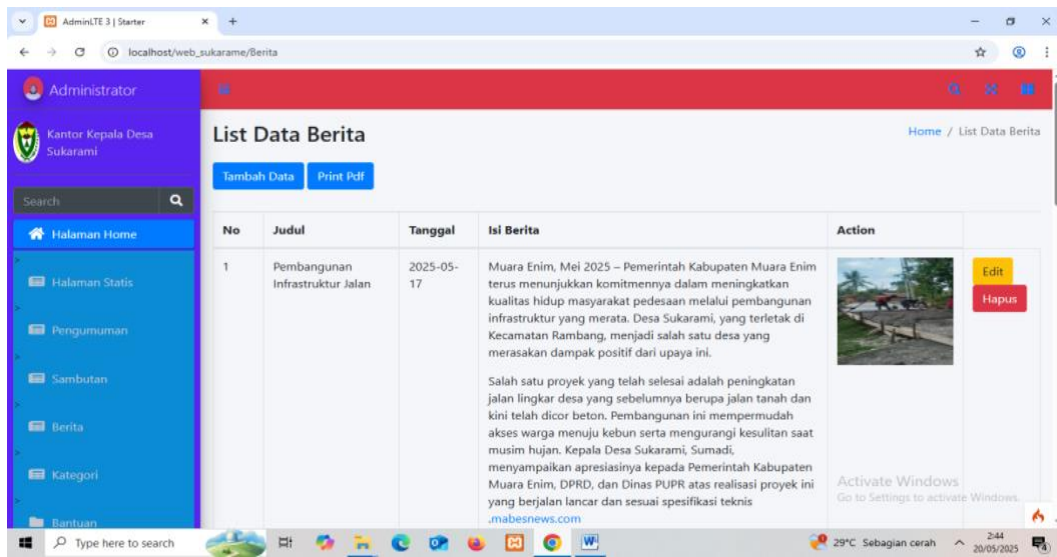


Fig. 8 : News Page View

Figure 8 shows the news page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data, and then print it as a PDF.

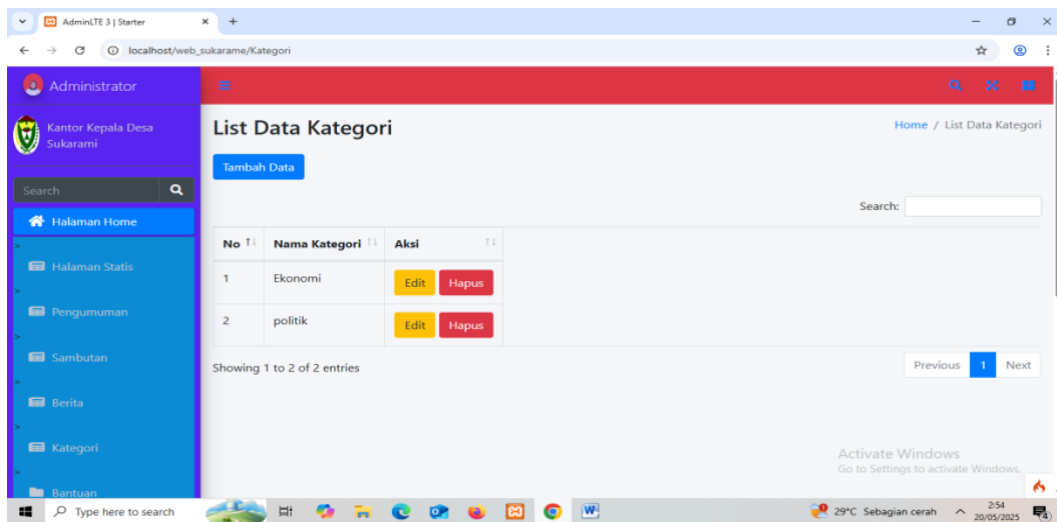


Fig. 9 : Category Page View

The image above shows the category page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data.

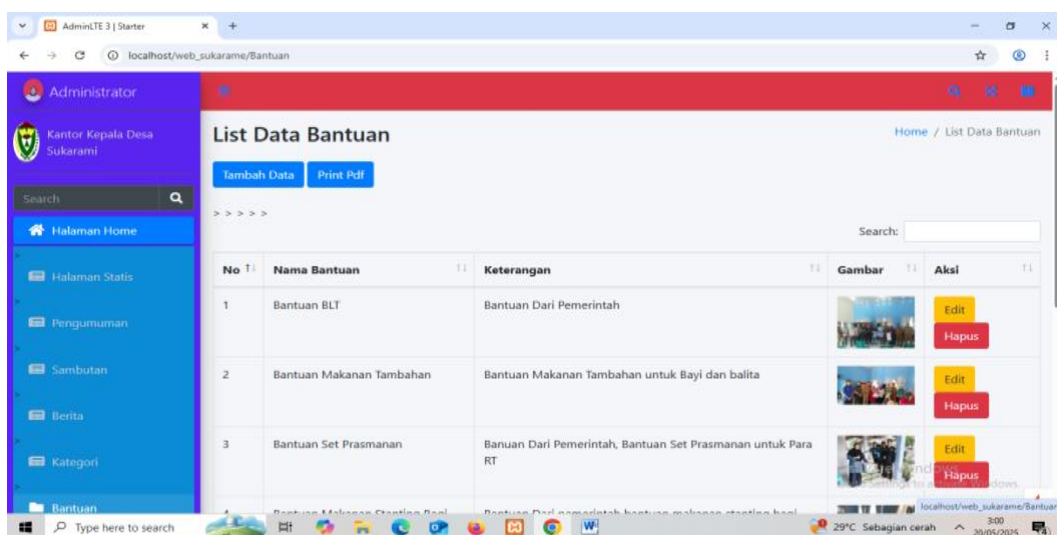


Fig. 10 : Help Page Display

The image above shows the help page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data, and then print it as a PDF.

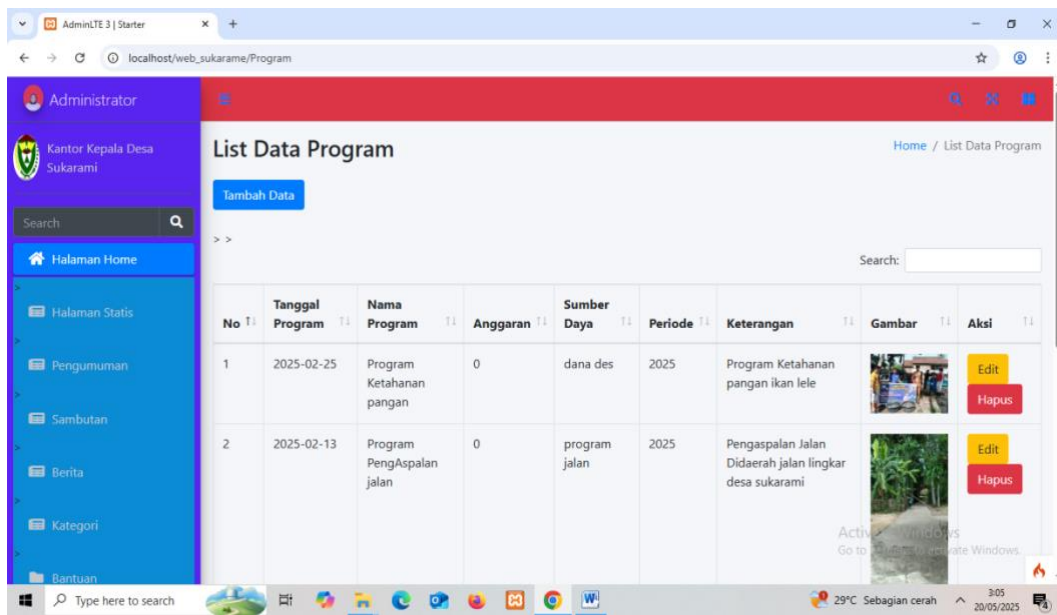


Fig.11 : Program Page Display

The image above shows the program page, allowing the admin to add, edit, and delete data. Once added, you can edit and delete data.

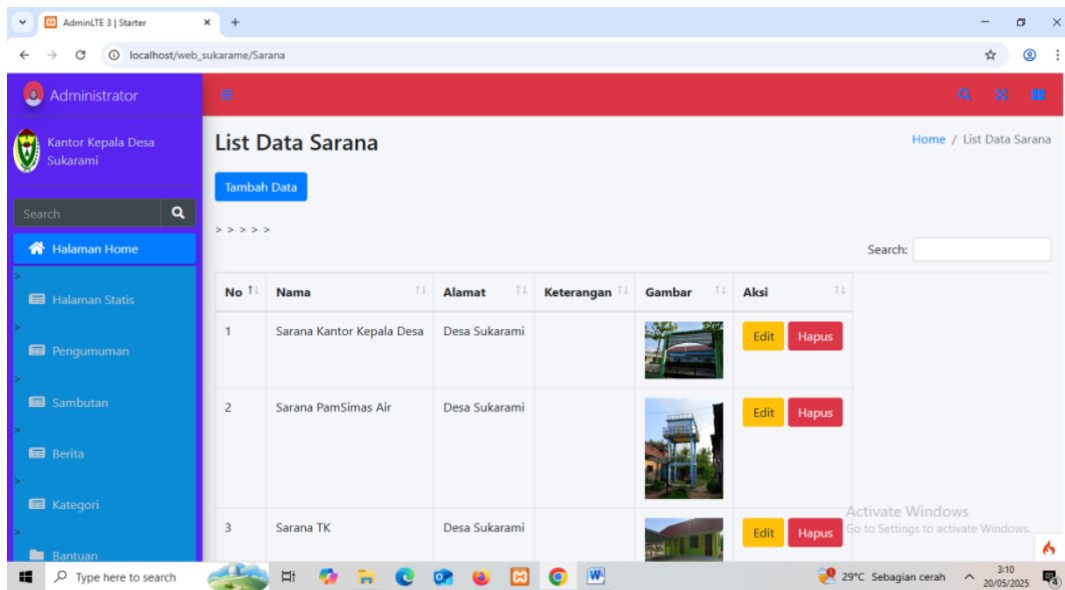


Fig. 12 : Facility Page View

Figure 12 shows the facilities page, allowing admins to add, edit, and delete data. Once added, data can be edited and deleted.

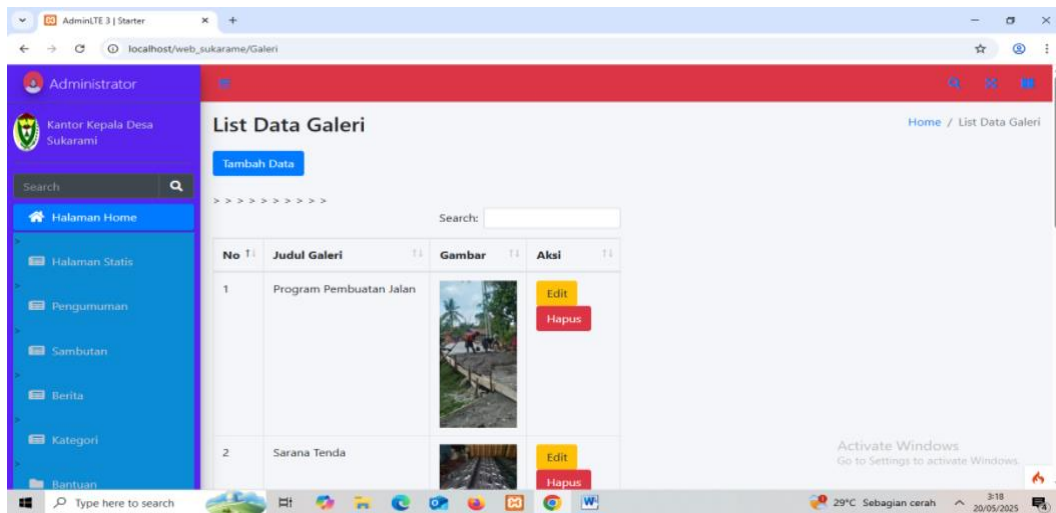


Fig.13 : Gallery Page View

The image above shows the gallery page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data.

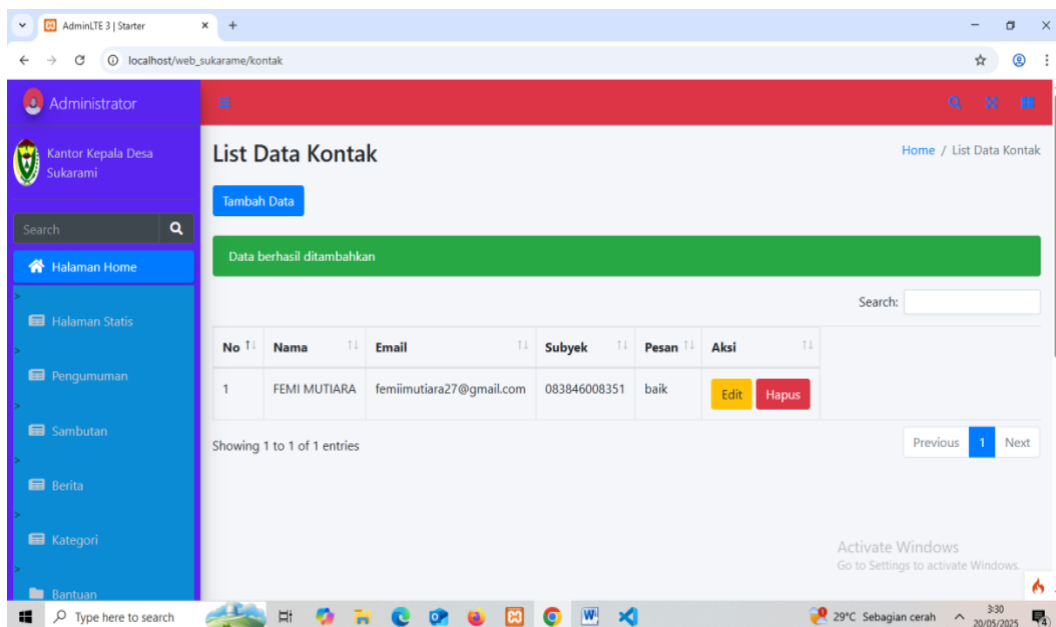


Fig. 14 : Contact Page View

Figure 14 shows the contact page, allowing admins to add, edit, and delete data. Once added, they can edit and delete data.

## 5.2. System Testing

To find out the results of using this application, a trial was carried out with a black box tester. After the trial, all data was declared valid.

## 6. Conclusion

Based on the description and explanation above, the results of the research system development at the Sukarami Village Head's Office using the Rapid Application Development (RAD) method are as follows:

1. The system was designed using the PHP (Hypertext Processor) programming language and the UML (Unified Modeling Language) tool. By applying the Rapid Application Development (RAD) method, the development of the Sukarami Village Head's Office website design system was carried out effectively and clearly.
2. It provides convenience for the public to access information from the Sukarami Village Head's Office website.

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