

# WEB-BASED HIGH SCHOOL TUITION PAYMENT INFORMATION SYSTEM

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## ABSTRACT

The progress and development of information technology today is very rapid. Likewise, the world of education should always be developing. Senior High School is one of the schools that still uses manual means in tuition payment activities. Tuition payment is an activity that is carried out once a month which is charged to students, where the money will be used to pay salaries for honorary teachers and other needs. The data collection methods used are observation, interviews, and literature studies. And using the UML Diagram system design method (Use Case Diagram, Activity Diagram, Sequence Diagram and Class Diagram), with database design and interface menu design. The programming used is website programming using MySQL and PHP databases. This research produced a web-based tuition payment information system for Upper Secondary Schools. Hopefully this information system can simplify and shorten the work of officers, so that the process of entering school fee payment data can be completed in a short time.

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## 1. INTRODUCTION

SMA N 1 is a public school established in Labuhanbatu Regency which has been accredited B where there are two majors, namely Science and Social Studies, where the total number of students of SMA N 1 reaches 639 students, of which there are 17 classrooms, from class X to grade XII. Therefore, SMA N 1 must have a program so that there are no errors in data processing, such as tuition payment data at SMA N 1[1].

Tuition payment is an activity that is carried out once a month which is charged to students, where the money will be used to pay salaries for honorary teachers and other needs[2].

The problem obtained at SMA N 1 is the payment of tuition fees that are still handwritten, namely by storing data in the form of a book, in which there is a Number, Nis, Name, and a description. Where in this bookkeeping is made in one school year, and in this Tuition Payment there is no set date for paying tuition, so that many students are late in paying tuition, and there is no proof of tuition payment card given to students because there is no budget for making the card. So that officers are tired in entering student payment data into the book.

Officers who are tired of serving tuition payments become inefficient, so that tuition payment officers become more difficult to enter student data and payment dates. SMA N 1 needs an Information System in Managing School Tuition Payment data, with this information system it

is hoped that the school fee payment officer can simplify and shorten his work, so that the process of entering school fee payment data can be completed in a short time.

## 2. RESEARCH METHOD

This sub-chapter discusses the implementation and display of programs that have been created by the author. On this display there are several pages that can make it easier for users to use this application. With these pages, the display of this information system will be more neatly arranged.

### a. Login Page

Before entering the main menu, admins must first log in for data security. This page is the first step to enter the main admin menu on this tuition payment information system.

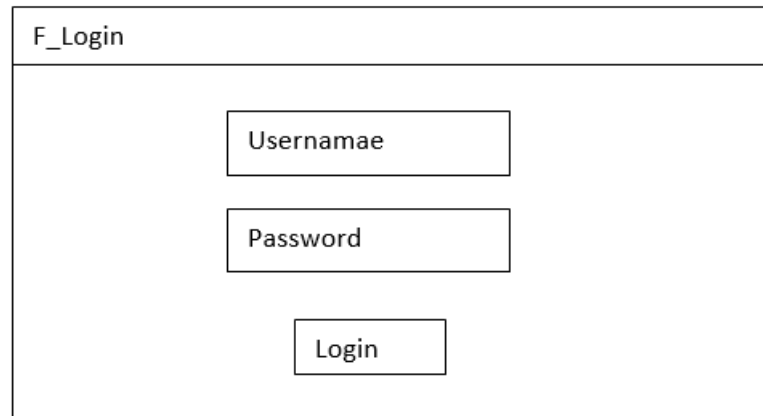


Figure 1. Login Page Design

### b. Main Menu Page

This page is the main menu display of the tuition payment information system that will be run.

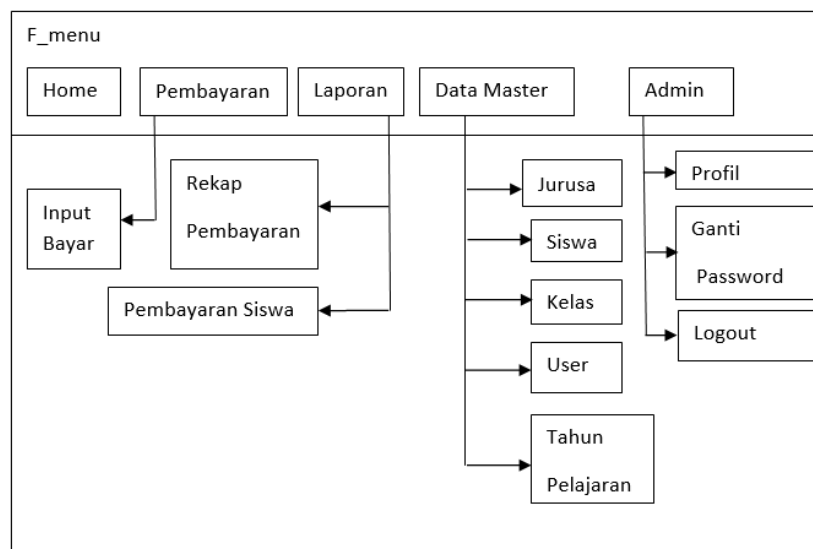


Figure 2. Main Menu Page Design

### c. Process Design (Process)

Use Case Diagram describes the sequence of activities performed by actors and system to achieve a certain goal. Although it describes the activity, the use case only explains what the actor and the system are doing, not how the actor and system do the activity.

The following is a diagram of the context of the process design in system design:

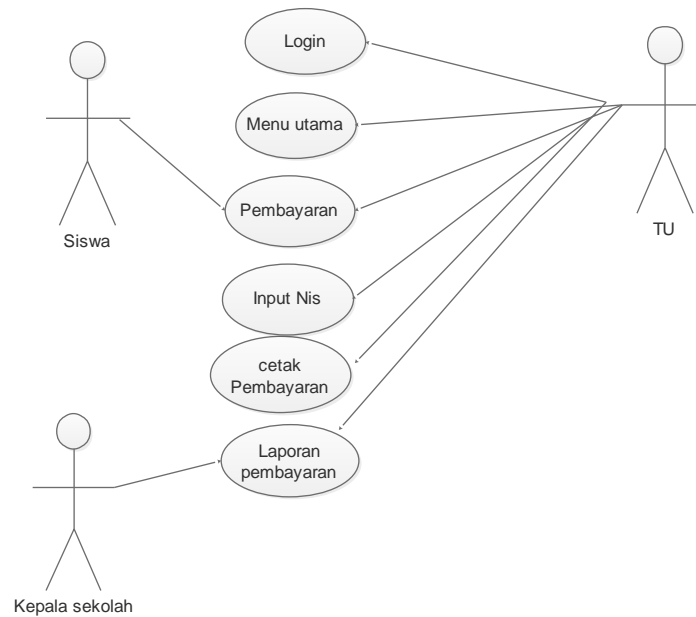


Figure 3. Use Case Diagram of Tuition Payment

Information:

1. Student Actors make tuition payments by stating their identification number to the Administrative Actor (TU).
2. Administrative Actors (TU) receive money before entering the system, TU logs in by entering the student's identification number, then imports the nominal amount of money paid and then TU prints the tuition payment.
3. The Principal receives a payment recap report from TU regarding all tuition payment data in order to check how much money is per month.

Sequence diagram depicting the interaction between objects in and around the system is used to show the sequence of messages sent through multiple objects.

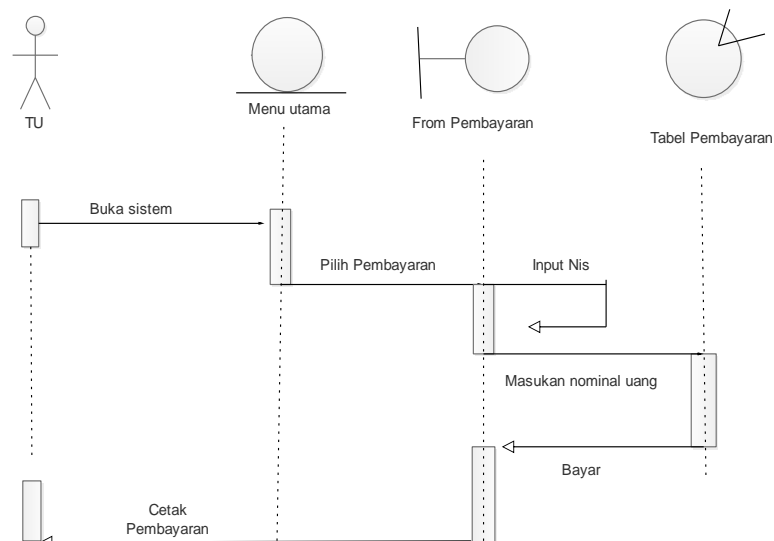


Figure 4. Sequence Diagram of Tuition Payment

Information:

- a. TU opens the system then the main menu appears, TU clicks on the payment menu.
- b. Then TU imports the student's identification number, then a payment display will appear, TU enters the nominal amount of money and selects the month of completion click pay.
- c. After the sesame, the TU can print the payment sign.

### 3. RESULTS AND DISCUSSION

The implementation of the display/interface is done with each page of the application created and its coding in the form of a program file.

#### 1. Login Display

Before entering the application, we must enter the username and password first. For example: username: guru password: guru then click login then we can enter the main menu page. If we enter the wrong username and password then we cannot enter the main page.

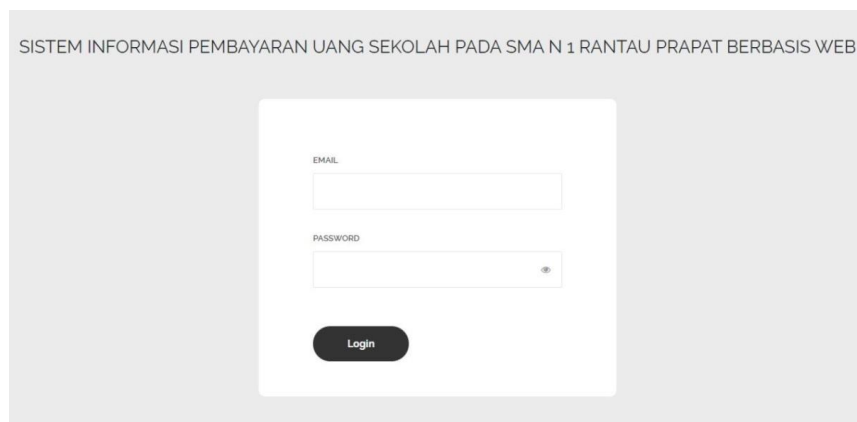


Figure 5. Login Display

#### 2. Main Menu Display

The main menu is the menu that will appear at the beginning of the application when we are logged in. And we will be greeted with the words Welcome User SEKOLAH MENENGAH MENENGAH NEGERI 1.



Figure 6. Main Menu Display

### 3. Display of the School Year Tuition Input Menu

In the tuition input menu for this school year, there are stages of inputting the school year and tuition, namely:

TAHUN AJARAN	UANG SEKOLAH	OPSI
2020/2021	Rp.50000	EDIT HAPUS
2019/2020	Rp.30000	EDIT HAPUS

Figure 7. School Year Display

### 4. Department Input Menu Display

In the input menu of this department, there are stages of inputting the majors in the school, namely:

JURUSAN	KELAS	OPSI
RPL	X-A3	EDIT HAPUS
RPL	X-A2	EDIT HAPUS
RPL	X-A1	EDIT HAPUS
IPA	XII-A	EDIT HAPUS
IPS	10-A	EDIT HAPUS

Figure 8. Department Display

### 5. Report Menu Display

In the Report Menu there are two reports, namely: payment recap report and student payment report. Contains a recap of payments per period with the total amount of payments recapped in one year. Here the user inputs the date, month and year from the beginning of the issuance period to the end of the payment period. For example, from 27/05/2019 to 29/05/2019 then click display, then the result of the total amount of money in one month will be displayed the amount of money per class. And users can print a recap of the payment. This report will later be given to the principal.

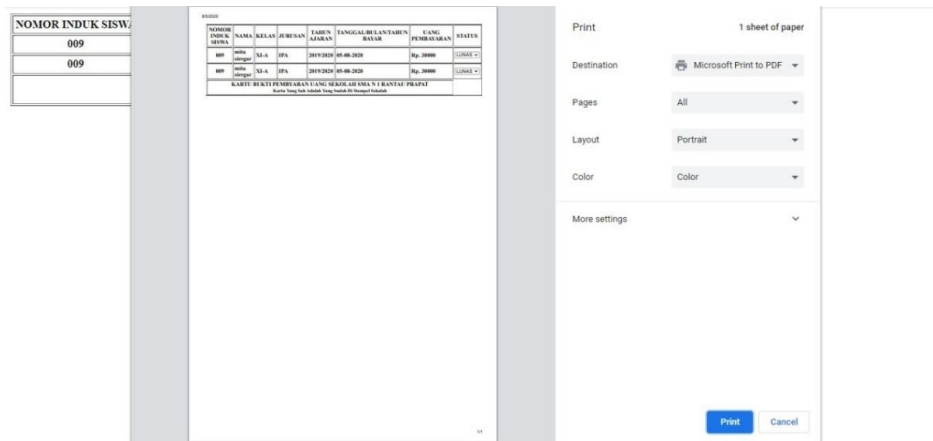


Figure 9. Payment Recap Report Display

#### 4. CONCLUSION

Based on the results of the design and implementation of the Web-Based School Payment Information System at SMA N 1, it can be concluded that this tuition payment information system can make it easier for users who will enter data on tuition payment transactions at SMA N 1. This tuition payment information system can make it easier for users in their work to set up and manage new tuition payments. This tuition payment information system can make it easier for users to produce a report that is needed according to their wishes or goals.

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