



# Accounting information system for school cash receipts at SMA Krista Mitra Semarang

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## ABSTRACT

The scope of the discussion of the system includes the process of class data collection, student data collection, bill payment transaction data collection and payment transaction data collection at Krista Mitra Semarang High School. Whereas the current system, even though in its implementation, does not experience many errors either in terms of data recording or calculations, the speed and accuracy of data factors will be better if a new computer-based system is implemented. The increase in students at Krista Mitra Semarang High School is expected to be easily handled by the new system. These conveniences include entering, storing and searching for certain data if needed at any time either for research materials or as analysis material for the parties concerned. Another convenience is in making the report.

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## 1. INTRODUCTION

School is a place where the teaching and learning process takes place, a place where a person can gain knowledge and get an education. The knowledge gained by each student will be very useful for future provision. Currently the policy of decentralization of education within the framework of regional autonomy demands the responsibility of district/city governments in overcoming educational problems. Proper management of the APBD will support the implementation of education decentralization, so that various kinds of program targets have been set, especially in improving the quality of education services and improving school facilities and infrastructure can be achieved.

Discussing organizational information systems, the need for an IT system in various industries today is increasingly being felt. If the use of IT in the retail, banking, oil and gas, and other sectors is commonplace, the need for IT systems in the education sector will begin to be felt as important by actors in the education industry. Even though currently there are many universities or schools in Indonesia that already use IT systems in managing their organizations, it is undeniable that the number of universities or schools whose governance is traditional is still much higher. This is what the author will convey in the theme of writing this thesis.

The object of research was carried out in the administration section of SMA Krista Mitra Semarang. After carrying out the interview, observation and data collection stages, it turned out that there were several obstacles or problems that occurred there. These obstacles include: difficulties in finding data on students who have not made payment administration; difficulties in preparing

administrative reports on receipt of student funds within a certain period of time; difficulties in preparing administrative reports on receipt of student funds based on certain student groups; difficulties in preparing administrative reports on receipt of student funds based on certain classes; as well as difficulties in recording and searching for data on the expenditure of school financial funds into various allocations such as funds for the development of infrastructure, facilities and infrastructure, etc.

These difficulties are due to the fact that so far the Administrative administration still uses manual recording. For example, in making payment receipts for students, they still use a manual system from TU officers, things like this often cause work to take a long time and the process of searching for receipt data is very difficult to do when editing receipt data. The current report recapitulation process uses Microsoft Excel as its supporting software.

Actually, there are many advantages offered by Microsoft Excel, but there are several weaknesses, including the Microsoft Excel application, which is not a database-based application, so that centralized data processing and information or reports are generated as desired by management, which is still too difficult to do. In addition, there will be a lot of writing activities that have to be done repeatedly because files are stored with many names and in many folders, so that making reports based on certain categories is also very time-consuming and labor-intensive.

Seeing this fact, the school needs to improve itself and start considering the use of a database-based information system that can provide a safe, fast and accurate information system for processing accounting data. That way it will be able to provide convenience and comfort, security, and flexibility according to the desired display input format and the expected report or information generation.

## 2. RESEARCH METHOD

To compile a report required data in accordance with the subject matter at hand. The data is said to be good if the data can represent the state of the object being studied. And to get good data, a method or method is needed that is in accordance with research needs, namely: how to work to be able to understand the object that is the target of the science in question. Primary data, namely data obtained directly from the research object (administration section of SMA Krista Mitra Semarang), secondary data, interviews, is a method of collecting data through question and answer regarding matters directly related to the problem under study. In terms of asking about the process of admitting new students, the process of receiving and disbursing student funds and the process until students leave / graduate, Documentation, It is a data collection method by looking at data, notes, receipts, notes and reports from the administrative administration section of SMA Krista Mitra Semarang. When companies provide products and services to the environment, each action is described by a data record. If the action involves elements of the environment, then it is called a transaction, hence the term transaction processing arises. The data processing system collects data that describes each of the company's internal actions and transactions within the company's environment. If the action involves elements of the environment, then it is called a transaction, hence the term transaction processing arises. The data processing system collects data that describes each of the company's internal actions and transactions within the company's environment. If the action involves elements of the environment, then it is called a transaction, hence the term transaction processing arises. The data processing system collects data that describes each of the company's internal actions and transactions within the company's environment.

## 3. RESULTS AND DISCUSSIONS

### Research Results and Discussion

#### 1. Identification of Information Needs

Based on the problems that occurred at Krista Mitra Semarang High School, the alternative solution offered is to form informative outputs/information/reports for related parties, the related outputs/information/reports provided here are.

Table 1. Information needs

No	Output/information/report	Data
1	Student Data Report	Nis, Student's Name, Student's Address, Student's Telephone, Student's Birth Place, Student's Birth Date, Father's Name, Mother's Name, Parents' Address, Telephone parents, Student Class
2	Payment Invoice Report	Billing month and year, NIS, Student Name, Class, Billing Name, Billing Amount and Description of Fines.
3	Billing Recap per period	Billing Date, Type Bill, NIS, Student Name, The amount of the bill
4	Payment Report	Payment Date, Billing Name, Billing Amount, Late Fees, Repayment Amount. NIS, Student Name, Class
5	Report Recap Monthly payments for 1 year	Month of payment period, type of payment, total nominal amount of payment per type and month period.

## 2. Identification of Proposed System Requirements

The proposed alternative system includes the stages of identifying hardware requirements (hardware), identifying software requirements (software) and identifying human resource requirements. The hardware requirements proposed by the author in making an Accounting Information System at Krista Mitra Semarang High School are 1 (one) Pentium IV PC unit; Identification of Software Requirements In order for a computer to function and operate as it should, it needs support from software according to its needs, the software requirements; Microsoft Windows XP Professional Operating System; Programming language (Human Made System), in this case using Microsoft Visual Basic 6.0 because it has complete command function facilities and speed in data execution;

In order for the goal of creating an accounting information system at SMA Krista Mitra Semarang to be realized, resources are needed that can use the new facility, including; System Users (Users), System Users (Users) are staff employees (administration) and administrative staff (treasurer) at Krista Mitra Semarang High School who are related to the system and the Principal. Those who operate and enter the required data (data entry) into the computer and check certain reports if one day is needed. Each user of the system (user) is created a user account based on the authorization of each user's access rights and enters the system (login) alternately. It also takes 1 staff member who is responsible as the administrator of the application.

### 3. Cost Benefit analysis

Analysis of the needs of all costs required in making an accounting information system at SMA Krista Mitra Semarang is as follows,

Table 2. Cost benefit analysis

No	Requirement Type	Price	Total
1	Hardware		3,300,000
	a. Intel Celeron PC	2,000,000	
	b. Stabilizer 500VA	100,000	
	c. Dot Matrix Printers	1,200,000	
2	Software (Software)		1,800,000
	a. Microsoft Windows XP Professional		
	b. Microsoft Visual Basic 6.0	1,200,000	
	c. MySQL databases	600,000	
3	Human Resources (HR)	Free	7,300,000
	a. System Analyst	<b>5,000,000</b>	
		<b>2,000,000</b>	
		<b>300,000</b>	
	b. Programmer		
	c. Training / Training (2 people)		
	<b>Total</b>		<b>12,400,000</b>

The author proposes to SMA Krista Mitra Semarang that the system selection uses a single user model but can be accessed by more than one user (system user) alternately. Apart from cost efficiency reasons, the single user model is considered sufficient to meet the data needs that occur every day. Employees (administration) and school principals will be given special training and training to be able to operate this accounting information system properly. Each user (system user) will be created a user account in accordance with their respective authorities and responsibilities.

Based on the identification of hardware requirements (hardware), identification of software requirements (software), identification of human resource requirements. So that performance is expected in (human resources), the proposed system is considered feasible to use because the perceived benefits will be greater than the costs that they have to complete other tasks that will be more helpful.

### 4. Student files

Table 3. Student file and database design

No	Field name	type	widths	key	Information
1	tag_by_id	Varchar	11	*	Billing Type Code
2	tag_date	Varchar	50		Bill Type Name
3	tag_month	Double	10		Month bills
4	tag_thn	Varchar	4		Billing year
5	tag_total	Double	13,2		The amount of the bill
6	tag_nis	Varchar	9		NIS
7	tag_sts	Tinyint	1		Bill status
8	tag_tgl_byr	date	8		Bill payment date
9	tag_fine	Double	13,2		The amount of the fine bill

5. **Interface design**

In the application program menu there is a Master sub-menu which is divided into Student data, Class data, Basic billing Constant Data, Non-routine billing constant Data, and Building money billing constants, Transaction sub-menu which is divided into Monthly Billing, Printing monthly bills and Transactions Payments, Reports sub menu which is divided into Student Data Reports, Billing Detail Transaction Reports and Billing Summary, Payment Transaction Details Reports and annual payment Summary, and Unpaid Billing Reports. All menus that have been mentioned can be accessed based on their respective access rights through the login form.

6. **Login form input design**

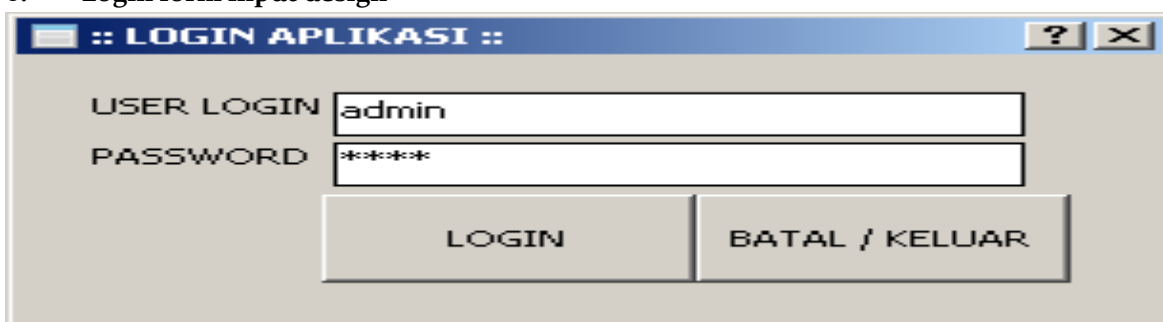


Figure 1. Login form input design

7. **Student Form Input Design**

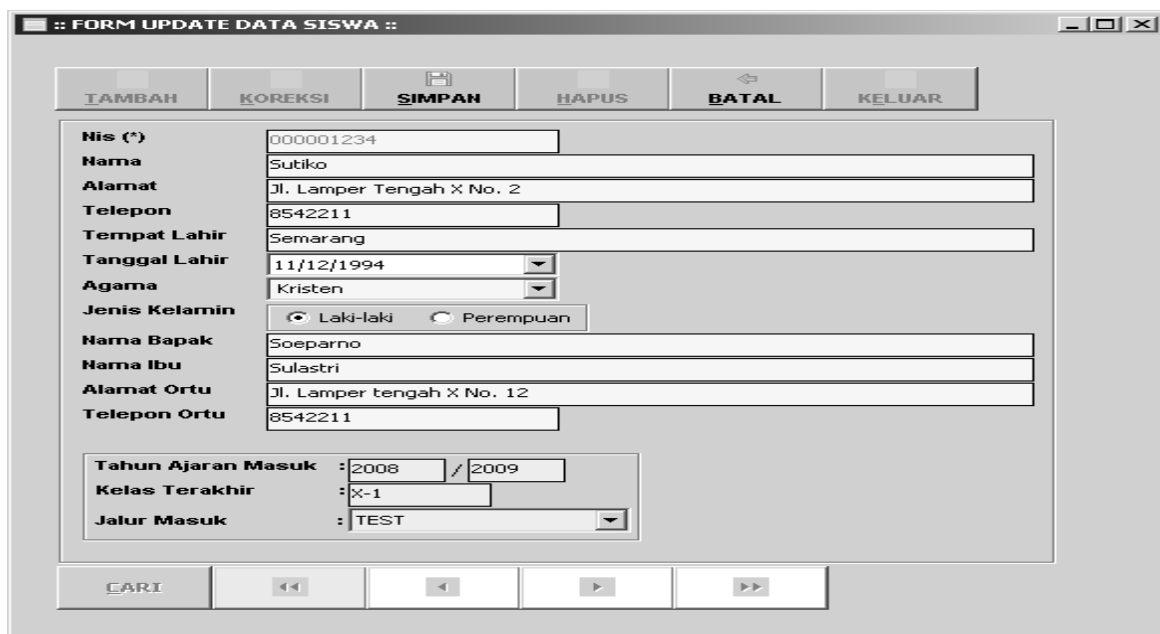


Figure 2. Student form input design

The process/sequence for entering Student Data is as follows; Press the Add button and the cursor will lead to filling in nis with format = 999999999. Example = 000001234; After filling in Nis the cursor will automatically drop after being entered or tabbed to request input of Student Name, and so on. When the cursor arrives at the class input, press the F5 button, there we can choose which class the student belongs to, then press the save button and the

data will automatically be stored in the student database; To edit or delete a record, look for the student data that will be edited or deleted, then press the Edit button to edit, then press the save button or press the Delete button if the data is to be deleted; The Cancel button is used to cancel a process that was not executed.

#### 4. CONCLUSION

From the discussion of the accounting information system for school cash receipts at Krista Mitra Semarang High School, the authors can draw conclusions as follows; The scope of the discussion of the system includes the process of class data collection, student data collection, bill payment transaction data collection and payment transaction data collection at Krista Mitra Semarang High School. Whereas the current system, even though in its implementation, does not experience many errors either in terms of data recording or calculations, the speed and accuracy of data factors will be better if a new computer-based system is implemented. The increase in students at Krista Mitra Semarang High School is expected to be easily handled by the new system. These facilities include income, storing and searching for certain data if needed at any time either for research materials or as analysis material for the parties concerned. Another convenience is in making the report; With the existence of a computer-based information system, it is hoped that data storage will be centralized and the existence of data will always be well controlled in terms of accuracy and data validation can be accounted for, so that the information produced will be faster and more accurate; The developed information system is expected to produce information uniformity, so that it will make it easier for information users to obtain the necessary data, With the existence of a computer-based information system, it is hoped that data storage will be centralized and the existence of data will always be well controlled in terms of accuracy and data validation can be accounted for, so that the information produced will be faster and more accurate; The developed information system is expected to produce information uniformity, so that it will make it easier for information users to obtain the necessary data, With the existence of a computer-based information system, it is hoped that data storage will be centralized and the existence of data will always be well controlled in terms of accuracy and data validation can be accounted for, so that the information produced will be faster and more accurate; The developed information system is expected to produce information uniformity, so that it will make it easier for information users to obtain the necessary data,

#### REFERENCES

- Al Haryono, Jusup. Accounting Fundamentals. Yogyakarta: YKPN College of Economics, 2011.
- Anastasia, et. al. Accounting information system. Yogyakarta: ANDI Yogyakarta, 2011.
- Arikunto, Suharsimi. Research Procedures A Practice Approach. Jakarta: Rineka Cipta, 2010.
- Cushing, Barry E. Accounting Information Systems and Company Organization, Translated by Ruckhyat Kosasih. Ellangga, 1992.
- Cushing, Barry E. Elements of Accounting Information Systems. Translated By Kosasih. Article, 2007.
- Dunia, Firdaus A. Complete Overview of Introduction to Accounting. Second Edition. Jakarta: Faculty of Economics, University of Indonesia, 2005.
- Dwitati, Ulfa Innassifa. Implementation of Internal Control System for Cash. Thesis: Faculty of Islamic Economics and Business, 2016.
- Gondodiyoto, Sanyoto. Information System Audit. Jakarta: Media Discourse Partners. 2007.
- Hall, James A. Accounting Information Systems. Jakarta: Salemba Empat, 2001.
- Please, Sofyan Syafri. Auditing in Islamic Perspective. Jakarta: Quantum Library, 2002.
- Please, Sofyan Syafri. Accounting Theory. Revised Edition. Jakarta Rajawali Press. 2013.
- Isgiyarta, Jaka. Islamic Accounting Theory and Financial Statements. Semarang: Diponegoro University. 2009.
- Ishak The Dan Arief. Accounting Information In Decision Making. Jakarta: Grasindo, 2015. 70
- Krismiaji. Accounting information system. Yogyakarta: Publishing and Printing Unit of the YKPN College of Management, 2015.
- Leod, Raymond Mc. Translation Management Information System Results of Sukardi and Agus Widyanoro. Jakarta: Prehanlindo, 2001.

- Mulyadi. Financial Accounting System. Jakarta: Salemba Empat, 2001.
- Mulyadi. Accounting System. Third Edition. Jakarta: Salemba Empat, 2008.
- Mulyadi. Accounting System. Sixth Edition. Jakarta: Salemba Empat, 2013.
- Nugroho, Widjanto. Accounting information system. Jakarta: Erlangga, 2004. Rahmani, Nur Ahmadi Bi. Economic Research Methodology. Medan: Faculty of Islamic Economics and Business. 2016.
- Shihab, Quraysh. Interpretation of Al-Mishbah. Jakarta: Heart Lantern. 2002.
- Soemarso. Accounting An Introduction. Jakarta: Fifth Edition. Salemba Empat. 2009.
- Sugiyono. Business Research Methods. Bandung: Alfabeta, 2012.
- Suyoto, et.al. Financial Accounting. Bandung: Science Titian, 1996.
- Single, Amin Widjaja. Internal control, Preventing and Detecting Fraud. Jakarta: Harvarindo, 2013.
- Weygandt. Accounting Principles. Jakarta: Salemba Empat, 2007.