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Design Of Cash Accounting Information Systems Of Cash In Aa Bogor Electrical Shop

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ABSTRACT

The development of information technology is now growing rapidly and rapidly. The use of computers is very much needed in almost every company. Computers and systems are very helpful to improve the performance and profit of a company. In processing sales data, AA Electric Stores still use manual notes using paper media and calculators. So that errors often occur in calculations. And the reports produced are only stored in the form of documents as archives. While these documents are very important for the company. For this reason, the author made the Final Project regarding the sales system at AA Electric Stores which until now has not been computerized. This information system design is the best solution to solve the problems that exist in this company, making it easier for users to make sales transactions, so that there is no error in the calculation and processing of neatly arranged goods data. The process of running sales transactions and processing data of goods becomes more effective and efficient. Data can be stored safely and easily searched, And with this system makes it easier for the owner to view the report at any time because when the data entered into the system will be processed directly into report information. And to improve the company's performance, it is necessary to design a purchasing system at the AA Electric Store. A web-based sales and purchase system is designed for company performance more effectively.

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1. Introduction

The development of information technology is now very rapidly developing and fast. So we are required to adapt to existing technological advancements. The use of computers is needed presence in almost every company. Computers and systems are very helpful to improve the performance and profit of a company. AA Electric Shop is a place of business that is engaged in trade that sells a variety of electrical appliances. In processing sales data, AA power stores have not yet used a computerized information system. AA power stores still use manual records using paper and calculators. So there is often a mistake in counting. And the reports generated are only stored in the form of documents as archives. While these documents are very important for the company. Based on research on several companies, especially in trading companies. It can be concluded that trading companies that still use manual systems will face problems, namely related to the information they produce. So that directly or indirectly will affect the profits derived from its operations. [1]

The use of application programs is the best solution to solve existing problems, as well as to support effective and efficient corporate activities, especially to deal with problems in the sales process. [2] The system is a set of elements consisting of humans, machines or tools, procedures and concepts that form a unity for common goals and objectives. According to (Mulyadi, 2016) "The system is a network of

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procedures that are made according to an integrated pattern for carrying out the main activities of the company".[3] According to Darmawan and Fauzi (Fandi, Imaniawan, & Elsa, 2017) "The system is a group of elements integrated with the same goal to achieve the goal".[4] Based on the above understanding it can be concluded that the system is a collection of components that are interrelated with one another to achieve the objectives in carrying out a company's main activities. According to (Shalahuddin, 2015) states that "System Development Life Cycle is the process of developing or changing a software system using models and methodologies used by people to develop software systems before (based on best practice or ways that have been well tested) ".[5] According to (Hartono, 2013) basically "Information is a set of data that has become something that has a broader meaning and use".[6] According to (Priatno, 2018) "Information is a necessity in every company. Information is considered very important because it can increase knowledge and can help leaders in making conclusions and decisions that are effective and efficient. "[7]

According to Romney and Steinbart (Rahmawati & Hidayati, 2015) understanding of Accounting Information Systems namely, "A human resource and capital in an organization that is responsible for preparing financial information and collecting various information obtained from collecting and processing various transactions that occur within company's".[8]

2. Method

In conducting research, the authors carry out preparations and carry out activities using methods, namely:

a Method of Direct Observation (Observation Method)
The method of observation (Observation) direct observation and research of the activities being carried out at the AA Electric Shop Bogor.

b Interview Method
The interview method (Interview) is a direct and systematic question and answer process for people who know about the problem being observed to make sure the observational activities that have been carried out. The author conducted interviewed Mr. Isack Rizaly as the owner of AA Bogor Electric Shop.

c Library Study (Library Method)
The Method is a process of collecting data and information needed by looking for reference books and journals that contain theories that relate to the problem.

2.1. Software Development Method

a. Analysis of software requirements
Analyze all requirements including documents and interfaces needed to determine the software solution that will be used as a computerized computer process using Enteprise Architecture and Netbeans IDE 8.1.

b. Design
This stage explains the design of the program that will be done, about the program made must be user friendly by using the UML (Unified Modeling Language) method by making Activity Diagrams, Use Case Diagrams and Sequence Diagrams, Database Design, ERD and LRS.

c. Code Generation
The programming language to be used is the JAVA programming language, the java language was chosen to make the program because the programming language is easy to learn and easy to develop. This program also includes object-based programs.

d. Testing
Black Box Testing is used for testing on application details such as the appearance of the application, functions in the application and the alignment of the function flow with the desired business process.

e. Support
Final Project, the supporting hardware used is a Processor Intel(R) Celeron(R) CPU B820 @1.70GHz Installed memory (RAM) 3,00GB.

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3. Results And Discussion

a. Entity Relationship Diagram

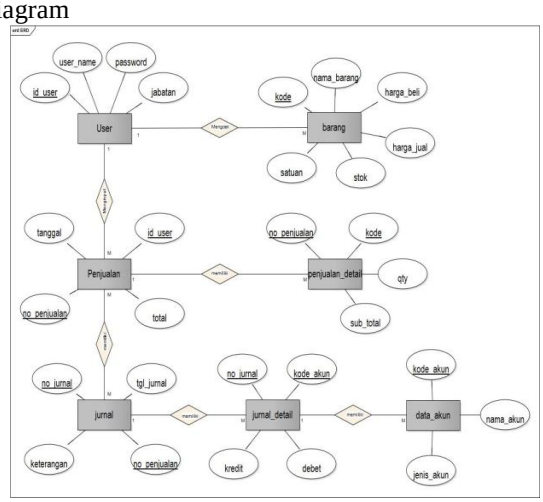

Fig 1. Entity Relationship Diagram

b. Logical Record Structure

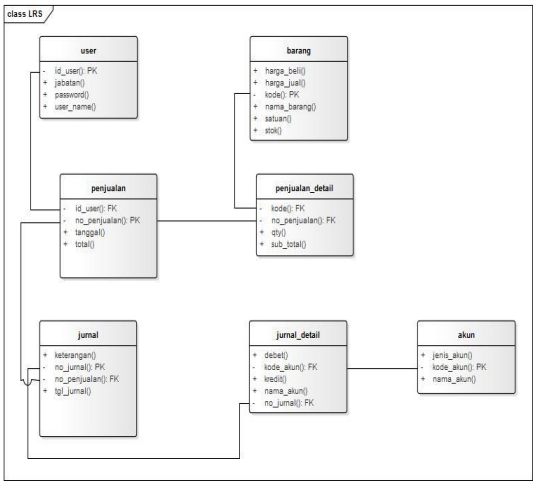

Fig 2. Logical Record Structure

c. Navigation Structure

1) Navigation Structure Admin

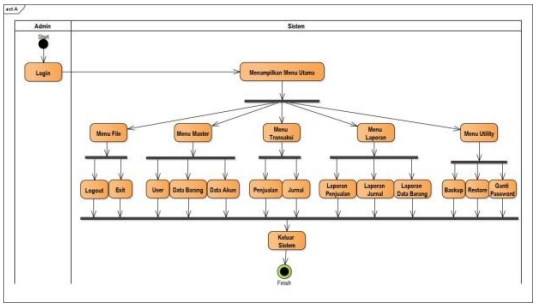

Fig 3. Navigation Structure Admin

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2) Navigation Structure User

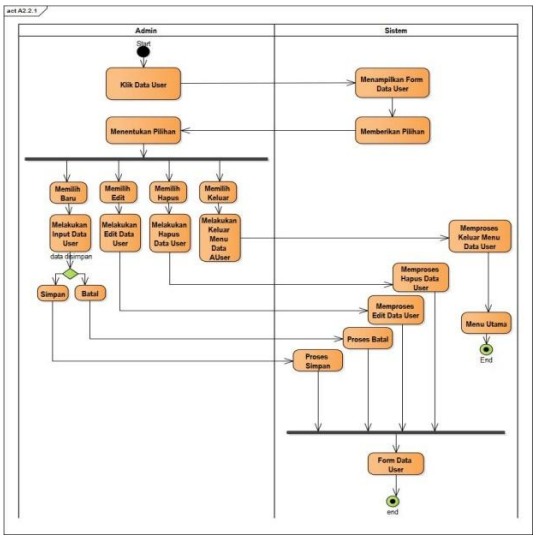

Fig 4. Navigation Structure User

3) Navigation Structure Laporan

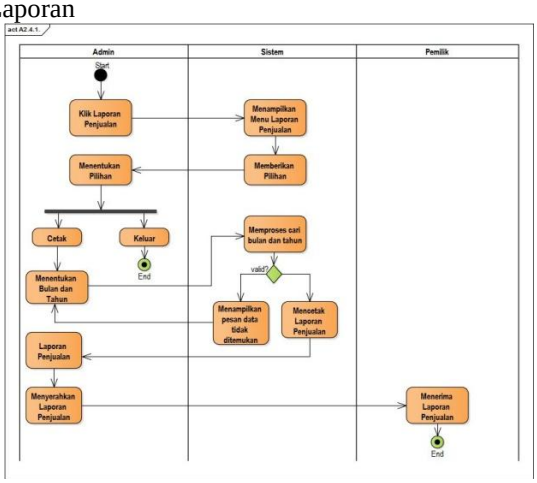

Fig 5. Navigation Structure Laporan

d. Black Box

1) Form Login

TABLE 1.
Black Box Form Login

No.	Skenario Pengujian	*Test case*	Hasil yang diharapkan	Hasil Pengujian	Kesimpulan
1.	Nama *user* dan *Password* tidak diisi kemudian klik tombol *login*	Nama *user* : (kosong) *Password* : (kosong)	Sistem akan menolak akses dan menampilkan "Login gagal"	Sesuai harapan	Valid
2.	Mengetikkan nama *user* dan *password* tidak diisi atau kosong kemudian klik tombol *login*	Nama *user* : Salma *Password* : (kosong)	Sistem akan menolak akses dan menampilkan "Login gagal"	Sesuai harapan	Valid
3.	Nama *user* tidak diisi (kosong) dan *Password* diisi kemudian klik tombol login	Nama *user* : (kosong) *Password* : (1234)	Sistem akan menolak akses dan menampilkan "Login gagal"	Sesuai harapan	Valid
4.	Mengetikkan salah satu kondisi salah pada Nama	Nama *user* : Salma (benar)	Sistem akan menolak akses	Sesuai harapan	Valid

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	user atau *password* kemudian klik tombol *login*	*Password* : 12345 (salah)	menampilkanpesan "Password salah, silahkan masukkan kembali!"		
5.	Mengetikkan nama *user* dan *password* dengan data yang benar kemudian klik tombol *login*	Nama *user* : Salma (benar) *Password* : 1234 (benar)	Sistem akan menerima akses login dan akan masuk ke menu utama. Sistem menampilkan "Login Berhasil"	Sesuai harapan	Valid

2) Black Box Form User

TABLE 2.
Black Box Form User

No.	Skenario Pengujian	*Test case*	Hasil yang diharapkan	Hasil Pengujian	Kesimpulan
1.	Klik tombol baru	ID User : (auto kode) Username: (kosong) Password: (Kosong) Jabatan: (memilih item)	Sistem akan menampilkan Text Box kosong	Sesuai Harapan	Valid
2.	Mengetikkan salah satu kondisi salah pada *password*	ID User : U0004 Username: Adinda (benar) Password: adinda (salah) Jabatan: Admin	Sistem akan menolak akses menampilkan pesan "Hanya bisa masukkan angka!"	Sesuai Harapan	Valid
3.	Tambah Data User (data yang diinput tidak lengkap), lalu klik simpan	ID User : U0004 Username: Adinda (benar) Password: 0123456789 (benar) Jabatan: Admin	Sistem berhasil diinput dan menampilkan pesan "Data Tersimpan"	Sesuai Harapan	Valid
4.	Sistem dapat melakukan proses edit Data User pada program dengan mengklik tombol edit	ID User : U0004 Username: Adinda (benar) Password: 1111111111 (benar) Jabatan: Admin	Sistem akan menampilkan proses edit, lalu klik simpan maka akan menampilkan Data User yang diinginkan.	Sesuai Harapan	Valid
5.	Sistem dapat melakukan proses hapus Data Use pada program dengan mengklik tombol hapus	ID User : Username: Password: Jabatan:	Sistem berhasil mengahapus Data User makan akan menampilkan pesan "Data sudah dihapus"	Sesuai Harapan	Valid
6.	Sistem dapat melakukan	ID User : U0004	Sistem akan	Sesuai Harapan	Valid

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No.	Skenario Pengujian	*Test case*	Hasil yang diharapkan	Hasil Pengujian	Kesimpulan
	proses batal Data User pada program dengan mengklik batal	Username: Adinda Password: (kosong) Jabatan: Admin	menampilkan Text Box kosong		
7.	Sistem dapat melakukan keluar dari form Data User dengan mengklik keluar	ID User : Username: Password: Jabatan:	Sistem berhasil keluar dari form Data User dan masuk ke menu utama	Sesuai Harapan	Valid

4. Conclusion

Based on the results of the analysis and data obtained by the author regarding the sales system at AA Electric Shop, the authors conclude that the sales system uses a computerized system to facilitate the user in making sales transactions, so there is no error in the calculation and processing of data. The process of selling transactions and processing data of goods becomes more effective and efficient. Data can be stored safely and searched easily. And this system makes it easy for the owner to see the report at any time because when the data entered into the system will directly be processed into report information.

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