



# Inventory System Of Goods At The Department Of Population And Civil Registration Of Central Aceh District

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## ABSTRACT

Inventory is an asset of an organization that needs to be managed properly so that the operational activities of an organization can run well too. Activities in inventory data processing are mostly carried out by recording item data and providing identity of existing items. To make it easier to do this recording, we need a system that can assist in processing inventory data. This research was conducted at the Office of the Population and Civil Registration Office of Central Aceh Regency with the aim of designing an information system for inventory data. data collection obtained through observation, interviews, analysis, design and implementation. The designed system is expected to be able to implement a system to make it easier for employees to manage inventory items in the Office of the Population and Civil Registration Office of Central Aceh District.

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## 1. INTRODUCTION

The development of technology and information has many positive impacts in various fields of life. Utilization of computer technology makes processing of data and information can be done quickly and accurately. Not only that, the use of computer technology, especially the internet can be used in the process of disseminating information more effectively and efficiently.

Advances in technology and information also provide many conveniences in processing inventory data. Inventory of goods is the recording of data related to goods or assets in the organization. Generally the activities in the inventory of goods are the recording of procurement of goods, placement, transfer and maintenance. Goods inventory needs to be managed properly so that the operational activities of an organization can run well too. Inventory information system is a system that is used to facilitate the process of inventorying goods (Susandi et al., 2018).

The Office of Population and Civil Registration of Central Aceh District already has adequate computer facilities but has not been used as fully as possible in terms of an office inventory data processing system. With the upcoming new system, it is hoped that the Central Aceh District Office of Population and Civil Registration will make the work of employees easier.

In the activity of making inventory data collection reports, the Office of Population and Civil Registration of Central Aceh District has not implemented an optimal computerized system. Based on this description, the research was conducted with the aim of designing a web-based inventory information system that can assist in the process of inventorying goods at the Central Aceh District

Population and Civil Registry Service. The purpose of this study is to make inventory records and inventory reporting as well as reports related to computerized inventory.

## 2. RESEARCH METHOD

The system development research carried out is a type of Applied Research. The results of the research can be directly applied to solve the problems faced by the Midwifery Academy of Bina Husada Serang in processing inventory data. This research will apply the theory of systems analysis with a web approach, implementation of the results of the analysis and design using Java, NetBeans and Xampp. Data collection techniques used in this study are; Interview Method. Interviews with parties related to research. The interview technique was carried out using structured interviews. In the interview the researcher has prepared a list of questions relating to the system to be developed. A list of questions is made to obtain data related to the system that is currently running; Observation Method. Observation or direct observation of organizational profiles and research objects. The observation technique is carried out using structured observation by preparing a list of data requirements and data sources. The observation process was carried out to study the goals and organizational structure, business processes and existing information system policies; Literature Study Method. Data collection methods obtained by studying, researching, and reading books, journals, theses, theses, articles related to system development. The analysis of the running system is a display model that has identified the problems faced at the Central Aceh District Population and Civil Registration Office. The system that runs at the Office of the Population and Civil Registration Office of Central Aceh District still uses a system that has not been computerized. Starting from the management of goods inventory data, and the storage process that is still stored in the archives, the following is a display of the running system analysis design presented in Figure 1 below. The procedure made does not experience many changes from the current system, only differs in the use of a computerized system that can assist in the process of inputting, editing and deleting data and can make it easier to search letters and can provide the expected updates; Admin has access to add items; To make it easier for the admin to input item data; Make it easier for admins to find item data.

## 3. RESULTS AND DISCUSSIONS

### Research Result

Implementation is the application of how the system works based on the results of the analysis and also the designs that have been made previously into a particular programming language. The interface implementation of the software is carried out based on the design that has been done. The implementation is shown in the form of screenshots from the website pages that are used as research tools and materials.

#### 1. Login Menu Display

The login menu display is the display used by the processor to enter and process all the activities that will be executed. It consists of entering the specified username and password. The Dashboard login page display can be seen in Figure 4 below.

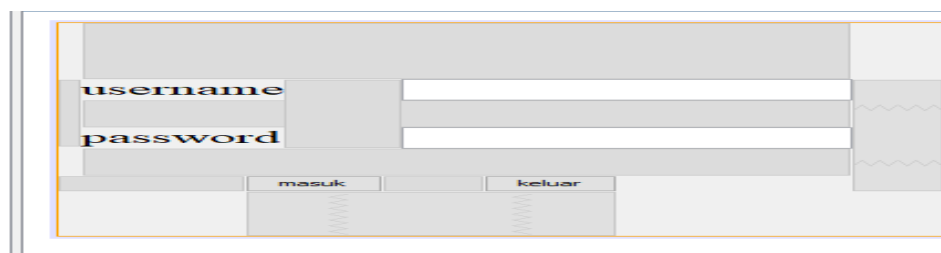


Figure 4. Login Menu Display

## 2. Dashboard page

After doing login access, you can enter the system where the first page that will appear is the Dashboard, where this Dashboard contains the homepage. The display of the dashboard page can be seen in Figure 5 below.

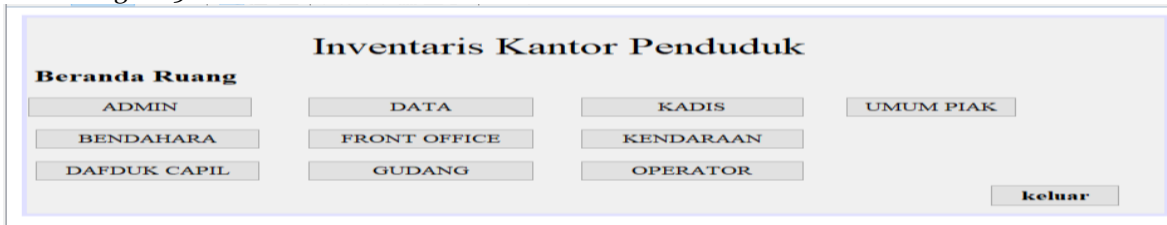


Figure 5. The display of the dashboard page

## 3. Goods Storage Display Page

The item storage page is a system where the items to be stored must be input first in this menu. The Goods Storage Display Page can be seen in Figure 6 below.

Figure 6. The Goods Storage Display Page

## 4. Results Display Page

In this view, the data on the name of the item that has been stored in order to output evidence that the item has been received, used and stored. The Results Display page can be seen in Figure 7 below.

no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_b...	no_regi...	jml_bar...	harga_b...	keadaan	keteran...	penang...
1	RACK S...	30 U			2006	212030...		1 Buah	Dirjen	B			
2	UPS	-Enerplu...	EA 2250		2006	212030...		1 Buah	Dirjen	RB			
3	AC	PANAS...			2006			1 UNIT	BRR	B			
4	LAN TE...	3N ST - ...			2006			1 Unit	BRR	B			
5	Filling K...	Relion			2006	212020...		1 Buah	BRR	B			
6	Mrja Ko...	Exspo			2013	212020...		1 Buah	APBD	B			
7	Meja 1/5...	Cantika			2013	212020...		1 Buah	APBD	B			

Figure 7. The Results Display pa

### 5. Admin Room Goods Storage Display Page

Admin Room is the scope of administration of writing activities, sending, and also storing databases, recording data and information. Admin Room Goods Storage Display Page can be seen in Figure 8 below.

Figure 8. The Admin Room Goods Storage Display Page

### 6. Admin Room Results Display Page

Admin Room Results Display Page can be seen in Figure 9 below.

no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_b...	no_regi...	jml_bar...	harga_b...	keadaan	keterangan...	penang...
1	RACK S...	30 U			2006	212030...	1 Buah	Dirjen	B				
2	UPS	-Enerplu...	EA 2250		2006	212030...	1 Buah	Dirjen	RB				
3	AC	PANAS...			2006		1 UNIT	BRR	B				
4	LAN TE...	3N ST-...			2006		1 Unit	BRR	B				
5	Filling K...	Relion			2006	212020...	1 Buah	BRR	B				
6	Mrja Ko...	Exspo			2013	212020...	1 Buah	APBD	B				
7	Meja 1/5...	Cantika			2013	212020...	1 Buah	APBD	B				

Figure 9. Admin Room Results Display Page

### 7. Data Room Goods Storage Display Page

Data Room Goods Storage Display Page can be seen in Figure 10 below.

Figure 10. Data Room Goods Storage Display Page

## 8. Data Room Results Display Page

Data Room Results Display Page can be seen in Figure 11 below.

no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_ba...	no_regi...	jml_bar...	harga_b...	keadaan	keterangan...	penang...
1		Lemari ...											

Figure 11. Data Room Results Display Page

## 9. Display page for storage of goods for the Head Office Room

Display page for storage of goods for the Head Office Room can be seen in Figure 12 below.

Figure 12. Display page for storage of goods for the Head Office Room

## 10. Head Office Results Display Page

Head Office Results Display Page can be seen in Figure 13 below.

no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_b...	no_regi...	jml_bar...	harga_b...	keadaan	keterangan...	penang...
1	Meja Blr...	Indachi	2 M	Kayu	2003	212020...		1 Buah	APBD	B			
2	Kursi pu...	Indachi		Busa	2003	212020...		1 Buah	APBD	B			

Figure 13. Head Office Results Display Page

## 11. Public Room and Piak Results Display Page

The public and piak rooms are the Population Administration Information Management Room. Public Room and Piak Results Display Page can be seen in Figure 14 below.

**Inventaris Kantor Penduduk**

**UMUM & PIAK**

No	<input type="text"/>	Kode Barang	<input type="text"/>
Jenis Barang	<input type="text"/>	No Registrasi	<input type="text"/>
Merk Barang	<input type="text"/>	Jumlah Barang	<input type="text"/>
No Seri	<input type="text"/>	Harga Beli	<input type="text"/>
Ukuran	<input type="text"/>	Keadaan	<input type="text"/>
Bahan	<input type="text"/>	Keterangan/Mutasi	<input type="text"/>
Tahun Beli	<input type="text"/>	Penanggung Jawab	<input type="text"/>

Figure 14. Public Room and Piak Results Display Page

12. Treasurer Room Goods Storage Display Page  
 Treasurer Room Goods Storage Display Page can be seen in Figure 15 below.

**Inventaris Kantor Penduduk**

**BENDAHARA**

No	<input type="text"/>	kode barang	<input type="text"/>
Jenis Barang	<input type="text"/>	no registrasi	<input type="text"/>
Merk Barang	<input type="text"/>	jumlah barang	<input type="text"/>
no seri	<input type="text"/>	harga beli	<input type="text"/>
ukuran	<input type="text"/>	keadaan	<input type="text"/>
bahan	<input type="text"/>	ketrangan/mutasi	<input type="text"/>
tahun beli	<input type="text"/>	penanggung jawab	<input type="text"/>

Figure 15. Treasurer Room Goods Storage Display Page

13. Treasury Room Results Display Page  
 Treasury Room Results Display Page can be seen in Figure 16 below.

no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_b...	no_regi...	jml_bar...	harga_b...	keadaan	keteran...	penang...
1	Meja 1/...	Cantika ...		Kayu	1997/20...	212020...		4 Buah	APBD	B			

Figure 16. Treasury Room Results Display Page

14. Front Office Goods Storage Display Page  
 Front Office Goods Storage Display Page can be seen in Figure 17 below.

**Inventaris Kantor Penduduk**

**FRONT OFFICE**

No	<input type="text"/>	Kode Barang	<input type="text"/>
Jenis Barang	<input type="text"/>	No Registrasi	<input type="text"/>
Merk Barang	<input type="text"/>	Jumlah Barang	<input type="text"/>
No Seri	<input type="text"/>	perolehan	<input type="text"/>
Ukuran	<input type="text"/>	keadaan	<input type="text"/>
Bahan	<input type="text"/>	Keterangan/Mutasi	<input type="text"/>
Tahun Beli	<input type="text"/>	Penanggung Jawab	<input type="text"/>

Figure 17. Front Office Goods Storage Display Page

## 15. Front Office Room Results Display Page

Front Office Room Results Display Page can be seen in Figure 18 below.

no	jns_ba...	merk	no_seri	ukuran	bahan	tahun...	kode...	no_reg...	jml_ba...	perole...	keadaan	keterangan...	penan...
1	Meja K...	Temap...				2019		5 Buah	APBD	B			
2	Kursi ...	Biru				2017		8 Buah	APBD	B			
3	Televisi					2020		1 Buah	APBD	B			
4	TV Mon...	Samsu...				2020		2 Unit	APBD	B			
5	TV Mon...	32 Inch				2020		1 Unit	APBD	B			

Figure 18. Front Office Room Results Display Page

## 16. Vehicle space goods storage display page

Vehicle space goods storage display page can be seen in Figure 19 below.

**Inventaris Kantor Penduduk**

**KENDARAAN**

No	<input type="text"/>	No Mesin	<input type="text"/>
Jenis Barang	<input type="text"/>	Tahun Beli	<input type="text"/>
Kode Registrasi	<input type="text"/>	No Polisi	<input type="text"/>
Merk	<input type="text"/>	BPKB	<input type="text"/>
Type	<input type="text"/>	Asal Usul	<input type="text"/>
Cc	<input type="text"/>	Harga	<input type="text"/>
Warna	<input type="text"/>	Keterangan/Mutasi	<input type="text"/>

Penanggung Jawab

Figure 19. Vehicle space goods storage display page

## 17. Vehicle space results display page

Vehicle space results display page can be seen in Figure 20 below.

no	jns_bar...	kode_re...	merk	type	cc	warna	no_me...	tahun_b...	no_polisi	BPKB	asal_us...	harga	keterangan...	penang...
1	Kendar...		Mini Bus			Biru		B 9879 ...		APBN		Umum		

Figure 20. Vehicle space results display page

## 18. Display page for Dafdukcapil room storage

The Dafdukcapil room is a room for population registration services and civil registration services. Display page for Dafdukcapil room storage can be seen in Figure 21 below.

Figure 21. Display page for Dafdukcapil room storage

## 19. Dafdukcapil room results display page

Dafdukcapil room results display page can be seen in Figure 22 below.

no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_b...	no_regi...	jml_bar...	harga...	keadaan	keterangan...	penang...
1	Meja Ke...	Tempa...	60x80 cm	Blockbo...	2020	1.3.2.05...		4 Buah	APBD	B		Kabid D...	
2	Kursi p...				2013			1 Buah	APBD	B			
3	Kursi Ci...	Biru			2017			4 Buah	APBD	B			

Figure 22. Dafdukcapil room results display page

## 20. Warehouse storage space display page

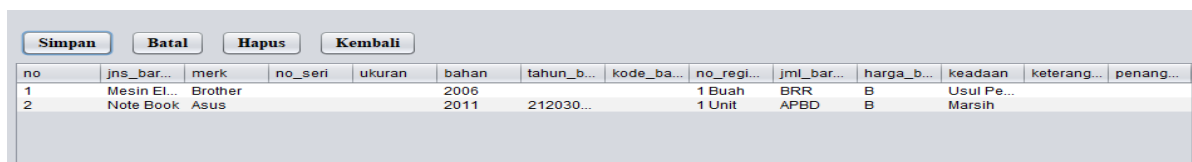
Warehouse storage space display page can be seen in Figure 23 below.

Figure 23. Warehouse storage space display page



## 21. Warehouse space result display page

Warehouse space result display page can be seen in Figure 24 below.



no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_ba...	no_regi...	jml_bar...	harga_b...	keadaan	keterangan...	penang...
1	Mesin El...	Brother			2006			1 Buah	BRR	B		Usul Pe...	
2	Note Book	Asus			2011	212030...		1 Unit	APBD	B		Marsih	

Figure 24. Warehouse space result display page

## 22. Operator room item storage display page

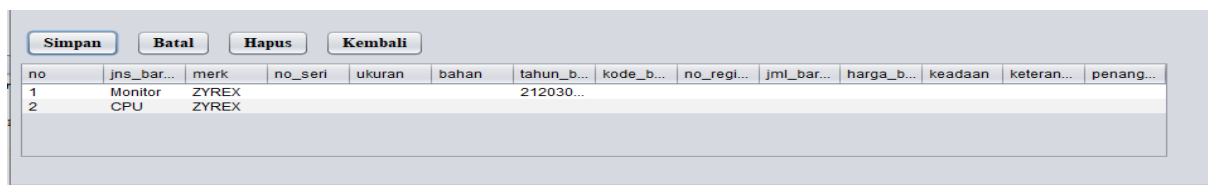
Operator room item storage display page can be seen in Figure 25 below.



Figure 25. Operator room item storage display page

## 23. Operator space results display page

Operator space results display page can be seen in Figure 26 below.



no	jns_bar...	merk	no_seri	ukuran	bahan	tahun_b...	kode_b...	no_regi...	jml_bar...	harga_b...	keadaan	keteran...	penang...
1	Monitor	ZYREX				212030...							
2	CPU	ZYREX											

Figure 26. Operator space results display page

#### 4. CONCLUSION

After conducting research and based on the design and analysis made in the goods/inventory management application program at the Office of the Population and Civil Registration Office of Central Aceh District, the authors can draw the following conclusions; With the application program created, it is hoped that it will make it easier for employees to manage and control goods/inventory so that the data will be stored properly; The program that is built can search goods data according to room categories and dates, which functions to find out information on the condition of goods at any time quickly and on time so that time can be as effective as possible, and improve the quality of performance of employees of the Regency Population and Civil Registration Office Central Aceh.

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