# Web-Based Logistic Demand Information System Design At Raharja University

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# Abstract

In the present Information Technology (IT) is highly developed. Even in daily life, everything is computerized, such as in companies, schools, offices, shopping centers, and many more. Nearly the average has used a computerized system for service and information presentation. With this computerized system, it is expected to be able to facilitate in all aspects of life. The purpose of this study is to design a logistics goods demand system at Raharja College. The approach taken in this report is by direct observation through field studies. To examine how the procedure for processing logistical demand data at Raharja University. Data processing is very important to produce a logistical demand report. The logistical demand data processing system that runs currently is semi computerized using Microsoft office Excel. So that errors often occur in the calculation of logistics goods demand reports and the processing process becomes less effective in terms of time. This study uses a SWOT analysis method, system requirements elicitation, and system modeling using UML (Unified Modeling Language) to visualize, which is then implemented with the Hypertext Preprocessor (PHP) programming language with the MySQL-Server database as the database used. With the logistics demand system, it can make it easier for the finance department to produce accurate logistics goods demand reports with fast time, so that it can create effective and efficient performance, and can support evaluation in internal control for the leadership of the report.

Keywords: Logistics, Demand for Goods.

# I. INTRODUCTION

Information technology that prepares human resources that can compete in the IT industry in the world. The processing of data on demand for goods at Raharja University is computerized but the processing is still using Microsoft Excel. The data collection process is still complicated and requires a lot of time so that employees who want to make monthly reports on stock and demand for goods require high accuracy considering the number of requests for goods is quite a lot. With





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the information system demand for goods expected to record the demand for goods can simplify the activities of the University of Raharja and can be addressed more effectively.

In this case the author tries to analyze the information system of inventory and demand for computerized goods that are applied at the University of Raharja, so the system analyzed is expected to be able to provide solutions so that data processing of goods inventory and demand for goods can be done quickly and on time

# II. METHODE

# Method of analysis

This study uses a SWOT analysis method to evaluate strengths, weaknesses (opportunities), opportunities (Opportunities) and threats (Threats) of the current logistics system so that it can help in conveying information to Raharja University staff related to the current logistics system.

Strengths (S)	Weaknesses (W)
1. Logistics staff are accustomed to using card stock	1. Cardstock buildup occurs
	2. Stock items often do not update
2. Applying staff are accustomed to using SPB cards	3. Reports are stacked manually
	4. Frequent errors in inputting
	5. Recap data still using Microsoft Excel
<b>Opportunities</b> (O)	Threatss (T)
1. The availability of a lot of paper	1. Risk of human error
2. Utilizing available facilities as a support in making computerized systems	2. Risk of missing files

# III. RESULT AND DISCUSSION

Based on the analysis conducted by researchers in the logistics department of raharja university, the process of requesting goods has been going well but it still takes a long time to reach a report data, Stock items are often not updated because the process of painting and searching stock data is still using stock cards and Microsoft Excel so the logistics department must search one by one to find out the inventory data, sometimes inventory is empty but unknown it can hamper demand.

1. Display Login Page

Login page display is the main system page which contains a login display that uses a username and password but to make it easier for employees to use Rinfo



Figure 1 Login Page Display

 Display Profile or Register Login Page Register page for new users to make it easier for admins to know employees and be allowed into the item request system.

Logistik Raharja		🛔 siti.wulandari@raharja.info 👻
Legitek Raferja My Dashbard (* Permintan Barang <	CZ Update Users : #siti wulandari@raharja info	
	Username	
	siti.wulandari@raharja.info	
	Password	
	12345	
My Dashboard	Nip	
☑ Permintaan Barang <	1514490319	
	Nama Lengkap	
	Siti Wulandari	
	Photo	
	Browse DSC_0232.JPG	
	Nama Divisi	
	Akademik	~
	Linkate	
	opean	

Figure 2 The Profile Update or Register Login Page

3. My Dashboard Page Views

Main page on the user, which is useful for knowing the history of requests for user goods.

Logistik Raharja						🛔 sitiw	/ulanda	if12507@g	nail.com <del>-</del>
8	♥ My Da	ashboard		A stituidadd2207@gmail.com •					
ADMIN My Dashboard	2		1	0	1	1			
# Dashboard Pimpinan	TOTAL		DITERIMA	PROSSES	R	REJECT			
Konfirmasi Permintaan		More info 🔿	More info 🛇	More info 🛇			More i	nfo 🧿	
Data Master <	■ Permi	ntaan Barang							
🕼 Permintaan Barang	Show 10	▼ entries			s	earch:			
E Laporan <	No 斗	Tgl Request	Pegawai	Barang	F	Request		Status	
	1	2019-02-12 17:35:18	sitiwulandari2507@gmail.com	Acco "FASTENER"	5	5		Dis	etujui
	2	2019-02-12 02:35:48	sitiwulandari2507@gmail.com	Kertas A4 70 gr "SMART PAPER"	1	1		0	itolak
	Showing 1 t	o 2 of 2 entries				F	Previou	s 1	Next

Figure 3 Display My Page Dashboard

4. Leaders Dashboard Page Views

Pages for administrators and managers monitoring and history of all requests for user items.

Logistik Raharja						🛔 sitiwulandar	i2507@gmail.com
8	Dashbo	ard Pimpinan					
ADMIN	19		11	0		8	
Any Dashboard Pimpinan	TOTAL		DITERIMA	PROSSES			
S Konfirmasi Permintaan		More info 🔿	More info 🛇	More info 오		More in	fo 🖸
E Data Master <	≡ Perm	nintaan Barang					
Permintaan Barang	Show 1	entries			5	Search:	
E Laporan K	No 🎼	Tgl Request	Pegawai	Barang		Request 1	Status 1
	1	2019-02-13 16:03:08	siti.wulandari@raharja.info	Pengharum ruangan "STELLA" (semprot)		1	Disetujui
	2	2019-02-13 15:46:55	siti.wulandari@raharja.info	Amplop Kop AMIK		10	Ditolak
	3	2019-02-13 12:21:04	siti.wulandari@raharja.info	Binder clips no 107 "JOYKO"		2	Disetujui
	4	2010-02-12 10:05:01	siti wulandari@rabaria info	Name tag "STAR"		9	-
	-	2018-02-12 18:00:01	one notarioan agrana jacino				Ditolak

Figure 4 Display the Leaders Dashboard Page

 Display the Item Master Data Page Item master data page which is useful for making it easy for admin to update, edit and delete item data

Logistik Raharja					🛓 sitiwi	ulandari2507(	@gmail
$\bigcirc$	🗁 Ba	rang + TAMBAH DATA					
	Mena	mpilkan 1-20 dari 300 item.					
ADMIN	No	Nama Barang	Nama Kategori	Stok	Harga	Add Stok	
My Dashboard							
Dashboard Pimpinan	1	Acco "FASTENER"	Alat Tulis Kantor	67 pcs	10000	[Add	0/
🖪 Konfirmasi Permintaan 🛛 🚺						Stok]	
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Barang	3	Agenda 2008	Souvenir	50 Bh	10000	[Add	0/
Kategori						Stokj	
Satuan	4	Agenda kosong	Souvenir	50 Bh	10000	[Add Stok]	°/
Divisi	5	Album Wisuda AMIK IX & STMIK VI Th.2009	Souvenir	50 Bh	10000	[Add Stok]	•/
Setup Email Pengguna	6	Album Wisuda AMIK V & STMIK II Th.2005	Souvenir	50 Bh	10000	[Add Stok]	*
Z Dormintaan Parana (	7	Album Wisuda AMIK VI & STMIK III	Souvenir	50 Bh	10000	[Add	0/

Figure 5 Display the Goods Master Data Page

6. Email Setup Master Data Page View Email settings page that is useful for managing email notifications that will be sent to admin, leader 1 and leader 2.

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Logistik Raharja				🛔 sitiwulan	dari2507@gmail.c
	🕞 Per	ngaturan Email			
	Menar	npilkan 1-1 dari 1 item.			
ADMIN	No	Email Admin	Email Pimpinan1	Email Pimpinan2	
My Dashboard					
Dashboard Pimpinan	1	sitiwulandari2507@gmail.com	stwulandr25@gmail.com	stwulandr25@gmail.com	1
🛿 Konfirmasi Permintaan 🛛 🚺					
Data Master					
Barang					
Kategori					
Satuan					
Divisi					
Setup Email					
Pengguna					

Figure 6 Email Setup Master Data Page View

7. Display of User Data Master Pages User master data page, which is easy for admin to update, edit and delete user data.

Logistik Raharja					🛔 sitiwu	landari2507@gmail.
$\bigcirc$	⊵ U:	iers + TAMBAH DATA				
	Mena	mpilkan 1-3 dari 3 item.				
ADMIN	No	Username	Nama Lengkap	Role	Aktif	
My Dashboard						
Dashboard Pimpinan	1	siti.wulandari@raharja.info	Siti Wulandari	Pegawai	Aktif	
Konfirmasi Permintaan	2	sitiwulandari2507@gmail.com	ADMIN	Admin	Aktif	•/=
Data Master	3	stwulandr25@gmail.com	PIMPINAN	Pimpinan	Aktif	
Barang						
Kategori						
Satuan						
Divisi						
Setup Email						
Pengguna						
Permintaan Barang <						



Page Views of Approved Transaction Reports
 Transaction report page that is useful to find out the number of goods that will be used as a report every month

Logistik Raharja							<b>≜</b> st	wulandari25	07@gmail.
		🖬 Laj	poran Transaksi						
$\bigcirc$		Tgi R	equest Tgl Awal	s/d Tgl Akhir	-PILIH-	• Search			
ADMIN		PRIN	т	Laporan Pe	rmintaan Barang 2019-02-01 s	/d 2019-02-18 (Status : Disetujui)			
My Dashboard		No	Tgi Request	Pegawai	Barang	Tujuan	Request	Diterima	Status
B Konfirmasi Permintaan	•	1	2019-02-05 16:24:33	siti.wulandari@raharja.info	Acco "FASTENER"	buat itu	20	20	Disetujui
Data Master	۰.	2	2019-02-11 19:36:25	siti.wulandari@raharja.info	Kertas A4 80 gr "SIDU"	print soal	10	10	Disetujui
Permintaan Barang	<	3	2019-02-11 20:54:31	siti.wulandari@raharja.info	Amplop kabinet	print surat	30	20	Disetujui
🕀 Transaksi		4	2019-02-12 02:50:36	siti.wulandari@raharja.info	Flash Disk AMC	Doorprize Kunjungan Siswa SMA 123	30	20	Disetujui
⊖ Stok		5	2019-02-12 03:13:31	siti.wulandari@raharja.info	Shopping bag		5	5	Disetujui
		6	2019-02-12 14:05:44	siti.wulandari@raharja.info	Amplop putih "JAYA"	surat	10	5	Disetujui
		7	2019-02-12	sitiwulandari2507@gmail.com	Acco "FASTENER"	untuk tes	5	3	Disetujui

Figure 8 Page Views of Approved Transaction Reports

#### IV. CONCLUSION

The system of demand for goods in the logistics department of the raharja university that is currently running is still using a semi-computerized system, in inputting data the demand for goods is still using books, while in making inventory reports using card stock. After input into the report book and card stock, input back into Microsoft Excel. The current system has not been able to facilitate employees in obtaining updated information on inventory, this is because there is still a long process of searching and making reports, because of the many documents needed, so the decision making process is hampered. The frequent occurrence of human errors such as input data errors that have an impact on the quality of goods stock reports, as well as the logistics section often has difficulty in controlling the minimum stock of goods which results in the logistics department not knowing when to buy goods back

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