



**WEB BASED POINT OF SALE INFORMATION SYSTEM FOR
CV. MASA JAYA TANI**

**UNDERGRADUATE THESIS
Submitted as one of the requirements to obtain
Sarjana Komputer (S.Kom.)**

By:

**MUNAWARAH
012202000015**

**FACULTY OF COMPUTING
INFORMATION SYSTEM STUDY PROGRAM
CIKARANG
JUNE, 2023**

**WEB BASED POINT OF SALE INFORMATION SYSTEM FOR
CV. MASA JAYA TANI**

By

MUNAWARAH
012202000015

Approved:



Rusdianto Roestam, M.Sc, Ph.D
Thesis Advisor



Ronny Juwono, S.Pd., M.T.
Program Head of Information
Technology



Rila Mandala, Ph.D.
Dean of Faculty of Computing

STATEMENT OF ORIGINALITY

In my capacity as an active student at President University and as the author of the final project stated below:

Name : MUNAWARAH

Student ID number : 012202000015

Study Program : Information Technology

Faculty : Computer Science

I hereby declare that my final project/thesis entitled “**WEB BASE POINT OF SALE INFORMATION SYSTEM FOR CV. MASA JAYA TANI**” is to the best of my knowledge and belief, an original piece of work based on sound academic principles. If there is any plagiarism detected in this final project/thesis, I am willing to be personally responsible for the consequences of these acts of plagiarism and will accept the sanctions against these acts in accordance with the rules and policies of President University.

I also declare that this work, either in whole or in part, has not been submitted to another university to obtain a degree.

Cikarang, 20 April 2023



MUNAWARAH

SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST

As an academic community member of the President's University, I, the undersigned:

Name : MUNAWARAH

Student ID number : 012202000015

Study program : Information System

for the purpose of development of science and technology, certify, and approve to give President University a non-exclusive royalty-free right upon my final report with the title:

WEB BASED POINT OF SALE INFORMATION SYSTEM FOR CV. MASA JAYA TANI

With this non-exclusive royalty-free right, President University is entitled to converse, to convert, to manage in a database, to maintain, and to publish my final report. There are to be done with the obligation from President University to mention my name as the copyright owner of my final report.

This statement I made in truth.

Cikarang, 20 April 2023



MUNAWARAH

ADVISOR APPROVAL FOR JOURNAL/INSTITUTION'S REPOSITORY

As an academic community member of the President's University, I, the undersigned:

Name : Rosdianto Roestam, M.Sc, Ph.D

ID number : 20170800704

Study program : Information Technology

Faculty : Computing

declare that following thesis:

Title of thesis : WEB BESED POINT OF SALE INFORMATION SYSTEM
FOR CV. MASA JAYA TANI

Thesis author : MUNAWARAH

Student ID number : 012202000015

will be published in journal / institution's repository / proceeding / unpublished.

Cikarang, 20 April 2023



Rosdianto Roestam, M.Sc, Ph.D

PANEL OF EXAMINER APPROVAL

The Panel of Examiners declare that the undergraduate thesis entitled **WEB BASED POINT OF SALE INFORMATION SYSTEM FOR CV MASA JAYA TANI** that was submitted by **MUNAWARAH** majoring in **Informatics** from the Faculty of Computer Science was assessed and approved to have passed the Oral Examination on Wednesday June 14, 2023.

Panel of Examiner



RONNY JUWONO

Chair of Panel Examiner



TJONG WAN SEN

Examiner I

PLAGIARISM CHECK RESULT

Check

ORIGINALITY REPORT

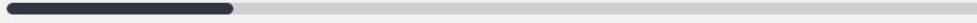
14%	13%	2%	9%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Submitted to President University Student Paper	5%
2	repository.president.ac.id Internet Source	5%
3	Submitted to Sriwijaya University Student Paper	<1%
4	www.researchgate.net Internet Source	<1%
5	download.garuda.kemdikbud.go.id Internet Source	<1%
6	ijssr.ridwaninstitute.co.id Internet Source	<1%
7	Submitted to Universitas Muhammadiyah Surakarta Student Paper	<1%
8	jurnal.kdi.or.id Internet Source	<1%
9	jurnal.polgan.ac.id Internet Source	<1%

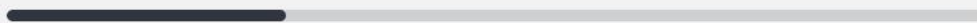
Stats

Average Perplexity Score: 232.929



A document's perplexity is a measurement of the randomness of the text

Burstiness Score: 287.253



A document's burstiness is a measurement of the variation in perplexity

Your sentence with the highest perplexity, "*Masa Jaya Tani store.*", has a perplexity of: 1315

ABSTRACT

CV. Masa Jaya Tani is a shop selling all kinds of plant seeds, all types of fertilizers, and plant and herbal medicines which was established in 2015, currently CV.Masa Jaya Tani has started to decline in sales because CV.Masa Jaya Tani is still using documentation manually in terms of managing data and sales reports, which at any time errors can occur in terms of recording reports or calculations. In this final project the author will build a system that is integrated with computers so that in terms of managing data and sales reports it becomes more effective, efficient and also accurate. Where the method used by the author is a web-based POS (Point of Sale) information system using the programming language PHP and MySQL as data storage. This Point Of Sale website will be used by cashiers at the CV. Masa Jaya Tani store to facilitate buying and selling transactions between buyers so that transaction reports will be perfect without any mistakes. In this case the head of the CV.Masa Jaya Tani store can monitor or analyze the situation of increasing sales transactions by checking reports at the Point Of Sale in real-time. The results of research conducted by the Point Of Sale system have been going well, being able to document recording of sales data reports more accurately and the sequence of sales transactions has also become smoother when there are lots of visitors at the CV. Masa Jaya Tani store.

Keywords : Point Of Sale, Reports, Document, information system, PHP, MySQL

ACKNOWLEDGEMENT

My thanks go to Allah SWT, God Almighty. Who has been with me through all of my challenges while working on this thesis. I've had guidance, and it's always given me an alternate road when I'm in trouble. Allah cannot be seen as a form, but I can feel the pleasure that has been provided to me; Allah has no ears, but is always able to ask for all of my prayers; and Allah always helps me with my issues and difficulties in completing my final assignment. Everything is difficult to run smoothly unless grace and kindness from him are there.

I would like to convey my heartfelt gratitude to Mr. Rusdianto Roestam, my Thesis Advisor, for making this task possible to accomplish. His counsel and advise have guided me from the beginning of my troubles when I fought to complete this final project to the end. I'd also like to thank my buddies for always cheering me up and making me happy during my thesis defense moments.

I also want to express my gratitude to my entire family, including my father, mother, and younger sister, who always believed in me and helped me feel certain that I could complete this final assignment. from start to finish. Also, your prayers for me pushed me to complete this thesis.

TABLE OF CONTENTS

ABSTRACT	9
DEDICATION	Error! Bookmark not defined.
ACKNOWLEDGEMENT	10
TABLE OF CONTENTS	11
LIST OF TABLES	16
LIST OF FIGURES	17
1 CHAPTER I INTRODUCTION	Error! Bookmark not defined.
1.1 Background	Error! Bookmark not defined.
1.2 Problem Statement	Error! Bookmark not defined.
1.3 Research Objectives	Error! Bookmark not defined.
1.4 Scope and Limitations	Error! Bookmark not defined.
1.5 Project Methodology	Error! Bookmark not defined.
1.6 Final Project Outline	Error! Bookmark not defined.
2 CHAPTER II LITERATURE REVIEW	Error! Bookmark not defined.
2.1 Information System Website Point of Sale	Error! Bookmark not defined.
2.1.1 Definiton System	Error! Bookmark not defined.
2.1.2 Defination Information	Error! Bookmark not defined.
2.1.3 Defination System Information	Error! Bookmark not defined.
2.1.4 Sales Definition	Error! Bookmark not defined.
2.1.5 Website Definition	Error! Bookmark not defined.
2.1.6 Point of Sale (PoS)	Error! Bookmark not defined.
2.2 Database	Error! Bookmark not defined.
2.3 Database System	Error! Bookmark not defined.
2.4 PHP (Hypertext Processor)	Error! Bookmark not defined.

2.4.1	Requirements to run PHP	Error! Bookmark not defined.
2.4.2	PHP advantages	Error! Bookmark not defined.
2.5	MySQL	Error! Bookmark not defined.
2.6	Current Situation	Error! Bookmark not defined.
2.7	Relate Work	Error! Bookmark not defined.
2.7.1	Manual sales invoice	Error! Bookmark not defined.
2.7.2	Excel Data Product	Error! Bookmark not defined.
3	CHAPTER III SYSTEM ANALYSIS	Error! Bookmark not defined.
3.1	System Overview	Error! Bookmark not defined.
3.2	Function Analysis	Error! Bookmark not defined.
3.3	Software and Hardware Requirement	Error! Bookmark not defined.
3.4	Use Case Diagram	Error! Bookmark not defined.
3.5	Use Case Narrative	Error! Bookmark not defined.
3.6	Activity Diagram	Error! Bookmark not defined.
3.6.1	Admin and Cashier Login	Error! Bookmark not defined.
3.6.2	Admin and Cashier Create Categories	Error! Bookmark not defined.
3.6.3	Admin and Cashier Edit Categories	Error! Bookmark not defined.
3.6.4	Admin and Cashier Create Product Unit	Error! Bookmark not defined.
3.6.5	Admin and Cashier Edit Product Unit	Error! Bookmark not defined.
3.6.6	Admin and Cashier Input Product	Error! Bookmark not defined.
3.6.7	Admin and Cashier Edit Product	Error! Bookmark not defined.
3.6.8	Admin and Cashier Delete Product	Error! Bookmark not defined.
3.6.9	Admin and Cashier View and update Store settings	Error! Bookmark not defined.
3.6.10	Cashier Transaction	Error! Bookmark not defined.
3.6.11	Admin View Sales Report	Error! Bookmark not defined.
3.6.12	Admin and Cashier View Data Costumer	Error! Bookmark not defined.
3.6.13	Admin and Cashier Change Password	Error! Bookmark not defined.

3.6.14	Admin and Cashier Edit Detail Personal Data	Error! Bookmark not defined.
3.6.15	Admin and Cashier Logout	.... Error! Bookmark not defined.
4	CHAPTER IV SYSTEM DESIGN	.....Error! Bookmark not defined.
4.1	User Interface Design	.....Error! Bookmark not defined.
4.1.1	Login Admin and Cashier	..... Error! Bookmark not defined.
4.1.2	Dashboard	..... Error! Bookmark not defined.
4.1.3	Create Categories	..... Error! Bookmark not defined.
4.1.4	Edit Categories	..... Error! Bookmark not defined.
4.1.5	Create Product Unit	..... Error! Bookmark not defined.
4.1.6	Edit Product Unit	..... Error! Bookmark not defined.
4.1.7	Input Item or Add Product	..... Error! Bookmark not defined.
4.1.8	View Data Product	..... Error! Bookmark not defined.
4.1.9	Edit Data Product	.....Error! Bookmark not defined.
4.1.10	Sales Transaction	.....Error! Bookmark not defined.
4.1.11	View Sales Report	.....Error! Bookmark not defined.
4.1.12	View Data Costumer	..... Error! Bookmark not defined.
4.1.13	View and Update Data Store Settings	Error! Bookmark not defined.
4.1.14	View and Update Detail Personal Data	Error! Bookmark not defined.
4.1.15	View Invoice Payment	.....Error! Bookmark not defined.
4.2	Entity Relationship Diagram	.....Error! Bookmark not defined.
4.3	Database Design	.....Error! Bookmark not defined.
5	CHAPTER V SYSTEM IMPLEMENTATION	Error! Bookmark not defined.
5.1	User Interface (UI) Development	.....Error! Bookmark not defined.
5.1.1	Point of Sales Login	.....Error! Bookmark not defined.
5.1.2	Admin - Dashbord Page	.....Error! Bookmark not defined.
5.1.3	Cashier - Dashbord Page	..... Error! Bookmark not defined.
5.1.4	Create Categories	..... Error! Bookmark not defined.

5.1.5	Edit Categories	Error! Bookmark not defined.
5.1.6	Create Product Unit	Error! Bookmark not defined.
5.1.7	Edit Product Unit	Error! Bookmark not defined.
5.1.8	Input or Add Product	Error! Bookmark not defined.
5.1.9	View Data Product	Error! Bookmark not defined.
5.1.10	Edit Product	Error! Bookmark not defined.
5.1.11	Sales Transaction - Cashier	Error! Bookmark not defined.
5.1.12	Sales Reporting	Error! Bookmark not defined.
5.1.13	View Data Costumer	Error! Bookmark not defined.
5.1.14	View and Update Data Store Settings	Error! Bookmark not defined.
5.1.15	View and Update Detail Personal Data	Error! Bookmark not defined.
5.1.16	View Invoice Payment	Error! Bookmark not defined.
5.2	Application Details	Error! Bookmark not defined.
5.2.1	Login Account Code	Error! Bookmark not defined.
5.2.2	Dahboard Code	Error! Bookmark not defined.
5.2.3	Product Unit Code	Error! Bookmark not defined.
5.2.4	Categories Product Code	Error! Bookmark not defined.
5.2.5	Product Code	Error! Bookmark not defined.
5.2.6	Sales Transaction Code	Error! Bookmark not defined.
5.2.7	Sales Reporting	Error! Bookmark not defined.
5.2.8	Profile Admin and Cashier	Error! Bookmark not defined.
5.2.9	Print Invoice Payment	Error! Bookmark not defined.
5.2.10	View Table Data Costumer	Error! Bookmark not defined.
CHAPTER VI SYSTEM TESTING		Error! Bookmark not defined.
6.1	Testing Environment	Error! Bookmark not defined.
6.2	Testing Scanario	Error! Bookmark not defined.
6.2.1	General Features	Error! Bookmark not defined.

6.2.2	Admin Features	Error! Bookmark not defined.
6.2.3	Cashier Features	Error! Bookmark not defined.
CHAPTER VII CONCLUSION AND FUTURE WORKS		Error! Bookmark not defined.
7.1	Conclusion	Error! Bookmark not defined.
7.2	Future Works	Error! Bookmark not defined.
REFERENCES		Error! Bookmark not defined.

LIST OF TABLES

Table 2 .1 Comparison Overview	Error! Bookmark not defined.
Table 3 .2 Comparison Overview	Error! Bookmark not defined.
Table 3 .2 Admin and Cashier Login.....	Error! Bookmark not defined.
Table 3 .3 Admin and Cashier Create Categories	Error! Bookmark not defined.
Table 3 .4 Admin and Cashier Edit Categories	Error! Bookmark not defined.
Table 3 .5 Admin and Cashier Create Product Unit	Error! Bookmark not defined.
Table 3 .6 Admin and Cashier Edit Product Unit	Error! Bookmark not defined.
Table 3 .7 Admin and Cashier Input Product..	Error! Bookmark not defined.
Table 3 .8 Admin and Cashier Edit Stock Product	Error! Bookmark not defined.
Table 3.9 Admin and Cashier Delete stock Product	Error! Bookmark not defined.
Table 3.10 View and update Store settings	Error! Bookmark not defined.
Table 3.11 Cashier Transaction.....	Error! Bookmark not defined.
Table 3 .12 Admin view Sales Reports.....	Error! Bookmark not defined.
Table 3 .13 Admin and Cashier View Data Costumer	Error! Bookmark not defined.
Table 3.14 Admin and Cashier Change Password	Error! Bookmark not defined.
Table 3.15 Admin and Cashier Edit Detail Personal Data	Error! Bookmark not defined.
Table 3.16 Admin and Cashier Logout.....	Error! Bookmark not defined.
Table 4.1 Database Design.....	Error! Bookmark not defined.
Table 6.1 Testing Scenario – General Features	Error! Bookmark not defined.
Table 6.2 Testing Scenario – Admin Features.	Error! Bookmark not defined.
Table 6.3 Testing Scenario – Cashier Features	Error! Bookmark not defined.

LIST OF FIGURES

Figure 1 .1 Methodology waterfall.....	Error! Bookmark not defined.
Figure 2 .1 Invoice Manual CV	Error! Bookmark not defined.
Figure 2 .2 Invoice Manual UD	Error! Bookmark not defined.
Figure 2 .3 Operational Stock Product	Error! Bookmark not defined.
Figure 3 .1 Use Case Diagram	Error! Bookmark not defined.
Figure 3 . 2 Activity Diagram Admin and Cashier Login	Error! Bookmark not defined.
Figure 3 .3 Activity Diagram Admin and Cashier Create Categories	Error! Bookmark not defined.
Figure 3 .4 Activity Diagram Admin and Cashier Edit Categories	Error! Bookmark not defined.
Figure 3 .5 Activity Diagram Admin and Cashier Create Product Unit	Error! Bookmark not defined.
Figure 3 . 6 Activity Diagram Admin and Cashier Edit Product Units	Error! Bookmark not defined.
Figure 3 .7 Activity Diagram Admin and Cashier Input Product	Error! Bookmark not defined.
Figure 3 .8 Activity Diagram Admin and Cashier Edit Product	Error! Bookmark not defined.
Figure 3 .9 Activity Diagram Admin and Cashier Delete Product	Error! Bookmark not defined.
Figure 3 .10 Activity Diagram Admin and Cashier View and Update Store Settings	Error! Bookmark not defined.
Figure 3 .11 Activity Diagram Cashier Transaction	Error! Bookmark not defined.
Figure 3 .12 Activity Diagram Admin and Cashier View Sales Report	Error! Bookmark not defined.
Figure 3 .13 View Data Customer	Error! Bookmark not defined.
Figure 3 .14 Activity Diagram Admin and Cashier Change Password	Error! Bookmark not defined.
Figure 3 .15 Activity Diagram Admin and Cashier Edit Detail Personal Data	Error! Bookmark not defined.
Figure 3 .16 Activity Diagram Admin and Cashier Logout	Error! Bookmark not defined.
Figure 4 .1 User Interface - Login	Error! Bookmark not defined.
Figure 4 .2 User Interface - Dashboard	Error! Bookmark not defined.
Figure 4 .3 User Interface - Create Categories	Error! Bookmark not defined.
Figure 4 .4 User Interface - Edit Categories ..	Error! Bookmark not defined.
Figure 4 .5 User Interface - Create Product Unit	Error! Bookmark not defined.
Figure 4 .6 User Interface - Edit Product Unit	Error! Bookmark not defined.
Figure 4 .7 User Interface - Input or Add Item Product	Error! Bookmark not defined.
Figure 4 .8 User Interface - View Data Product	Error! Bookmark not defined.
Figure 4 .9 User Interface - Edit Data Product	Error! Bookmark not defined.
Figure 4 .10 User Interface - Transaction	Error! Bookmark not defined.
Figure 4 .11 User Interface - View Sales Report	Error! Bookmark not defined.

Figure 4 .12 User Interface - View Data Costumer**Error! Bookmark not defined.**

Figure 4 .13 User Interface - View and Update Store Settings**Error! Bookmark not defined.**

Figure 4 .14 User Interface - View and Update Detail Personal Data**Error! Bookmark not defi**

Figure 4 .15 User Interface - View Invoice Payment**Error! Bookmark not defined.**

Figure 4 .16 Entity Relationship Diagram..... **Error! Bookmark not defined.**

Figure 5 .1 Point of Sales Login..... **Error! Bookmark not defined.**

Figure 5 .2 Admin Dashboard Page..... **Error! Bookmark not defined.**

Figure 5 .3 Cashier Dashboard Page.....**Error! Bookmark not defined.**

Figure 5 .4 Create Categories Page.....**Error! Bookmark not defined.**

Figure 5 .5 Edit Categories Page.....**Error! Bookmark not defined.**

Figure 5 .6 Create Product Unit Page..... **Error! Bookmark not defined.**

Figure 5 .7 Edit Product Unit Page..... **Error! Bookmark not defined.**

Figure 5 .8 Input or Add Product Page **Error! Bookmark not defined.**

Figure 5 .9 View Data Product Page.....**Error! Bookmark not defined.**

Figure 5 .10 Edit Product Page..... **Error! Bookmark not defined.**

Figure 5 .11 Sales Transaction Page - Cashier **Error! Bookmark not defined.**

Figure 5 .12 Sales Reporting Page..... **Error! Bookmark not defined.**

Figure 5 .13 View Data Costumer..... **Error! Bookmark not defined.**

Figure 5 .14 View and Update Data Store Settings Page**Error! Bookmark not defined.**

Figure 5 .15 View and Update Detail Personal Data Page**Error! Bookmark not defined.**

Figure 5 .16 View Invoice Payment.....**Error! Bookmark not defined.**

Figure 5 .17 Login Account Form - Code.**Error! Bookmark not defined.**

Figure 5 .18 Login Account and button sign in - Code.**Error! Bookmark not defined.**

Figure 5 .19 Dashboard - Code..... **Error! Bookmark not defined.**

Figure 5 .20 Product Unit - Code.....**Error! Bookmark not defined.**

Figure 5 .21 View Detail Product Unit - Code.**Error! Bookmark not defined.**

Figure 5 .22 Categories Product - Code.....**Error! Bookmark not defined.**

Figure 5 .23 View Detail Categories Product - Code.**Error! Bookmark not defined.**

Figure 5.24 warning in Product - Code.....**Error! Bookmark not defined.**

Figure 5 .25 View Product - Code..... **Error! Bookmark not defined.**

Figure 5 .26 Product - Code.....**Error! Bookmark not defined.**

Figure 5 .27 Dashboard Cashier Transaction - Code.**Error! Bookmark not defined.**

Figure 5 .28 Table Sales - Code.....**Error! Bookmark not defined.**

Figure 5 .29 Payment - Code..... **Error! Bookmark not defined.**

Figure 5 .30 Payment directed to invoice - Code.**Error! Bookmark not defined.**

Figure 5 .31 Select the List of Report View - Code.**Error! Bookmark not defined.**

Figure 5 .32 Table Report - Code. **Error! Bookmark not defined.**

Figure 5 .33 Table Profit From Capital - Code.**Error! Bookmark not defined.**

Figure 5 .34 Upload Photo Admin and Cashier - Code.**Error! Bookmark not defined.**

Figure 5 .35 Personal Data Admin and Cashier - Code.**Error! Bookmark not defined.**

Figure 5 .36 Change Password Admin and Cashier - Code.**Error! Bookmark not defined.**

Figure 5 .37 Print Invoice Payment - Code.....**Error! Bookmark not defined.**

Figure 5 .38 View Table Data Costumer - Code**Error! Bookmark not defined.**

*Figure 5 . 39 Button Search in Page Transaction***Error! Bookmark not defined.**

Figure 5 .40 Description in the Button

Search.....**Error! Bookmark not defined.**