

INVENTORY APPLICATION PROGRAM ON CV Y IN BANDUNG

Dwi Febri Syawaludin

Universitas Catur Insan Cendekia, Indonesia

Email: febrisyaludin445@gmail.com

Article Information:

Received

Revised

Accepted

Keywords:

inventory;
program

application;

Abstract

Technology and Information are two things that cannot be separated today. This can be seen from the process to get information that can be obtained quickly, accurately, and accurately supported by increasingly sophisticated technological advances. This technological advancement makes many corporate agencies engaged in pawnshops use computer-based technology and networks to help their work because it is effective and efficient. Design of computer programs that the author made, it will soon be known what are the transactions without long in opening the documents. If the calculation process is applied computerized within the company, then the process will be very easy, automatically calculated and programmed so as not to waste a long time. Because the results of this programming process will be good in the office work cycle every day and very effective and efficient. The process of storage and input that is done dengan a programming that the author makes easy Pawnshop Prima Pawn in the process of data collection. In addition, citations also support the development of information technology..

Introduction

Technology and Information are two things that cannot be separated today. This can be seen from the process to get information that can be obtained quickly, accurately, and accurately supported by increasingly sophisticated technological advances (Brynjolfsson & McAfee, 2014). This technological advancement makes many corporate agencies engaged in pawnshops use computer-based technology and networks to help their work because it is effective and efficient (Anhar, Advinda, & Hariati, 2017).

Companies that have used computerized systems in processing their data. Prima Gadai itself is one of the companies that have a complete system but in the processing of data is still done manually, which requires all data to be processed properly, stored neatly (Munthe, 2015).

Prima Gadai itself for data processing is still applying manual methods such as inputting consumer data and repayment on pawnshops. These processes have their own complexities related to the facilities that are available (Benjamin, 2014). It also raises a variety of other problems such as the process of delivering reports that are not timely, the volume of data released is quite large, data searches that take a long time, and will make it difficult for users in

How to cite:

Syawaludin.D.F, (2021), Inventory Application Program on CV. Y in Bandung, 2 (2) *Journal of Business, Social and Technology (Bustechno)* <https://doi.org/10.59261/jbt.v2i2.51>

E-ISSN:

2807-6362

Published by:

Politeknik Siber Cerdika Internasional

Dwi Febri Syawaludin

reports and consumer data collection due to too much data (Raubert & Rünger, 2013). Therefore, many pawnshop companies are looking for solutions to improve quality and quality by adapting to technology development that is very related to these companies. One form of information technology needed to support the success of achievement is computers, where the role of computers has become a vital part of activities in facilitating work. Computerized systems are the answer to technological breakthroughs in the problem-solving problems that exist in Prima Gadai in consumer data collection today (Kuper, Libkin, & Paredaens, 2013).

Methods

The research was conducted at CV Y in Bandung research method using qualitative derikatif. Data obtained from interview data sources obtained from documents and informants. Research informants are managers, staff and primary documents from CV Y in Bandung. Data analysis is carried out with interactive technical analysis, which includes data collection, data presentation, data reduction and conclusion making.

Based on the data collected related to the problem. The data can be grouped into two types of data, namely:

1. Primary data

Primary data is data obtained from research objects to collect the data needed by the author using various means, among others: a. Interview / Interview

Data collection method by conducting question and answer systemically and based on the purpose of discussion

b. Observation

Data collection techniques by observing directly in prima pawn

2. Secondary Data

Secondary data is data obtained indirectly that can be obtained through books or websites related to the problems faced today.

Results and Discussion

A. System Design

System design consists of ERD, normalization, HIPO structure, program flowchart and program display design (Jayanti & Sumiari, 2018).

1. Entity Relationship Diagram / ERD

In the previous chapter it has been explained about the understanding of ERD, and in this chapter the author will create an ERD based on the application program to be created (Yasin, Zarlis, & Nasution, 2018).

Inventory Application Program

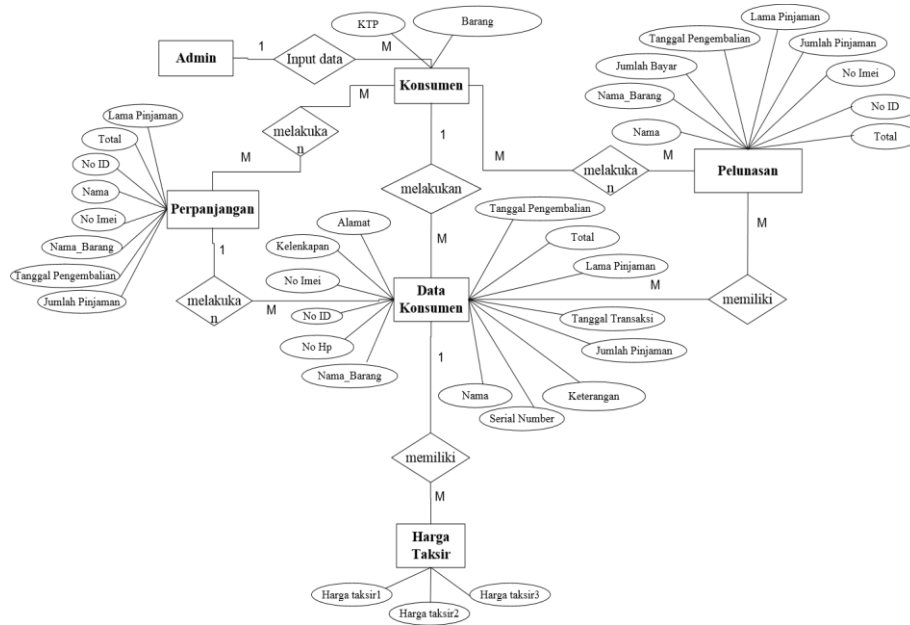
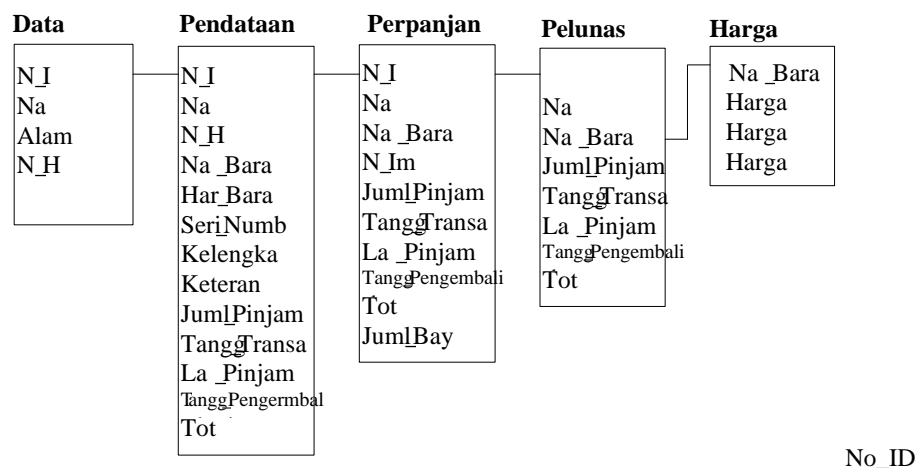


Figure 1

Entity Relationship Diagram (ERD)

a. Normalization



No_ID

Figure 2

Second Normal Form (Von Zur Gathen, 2014)

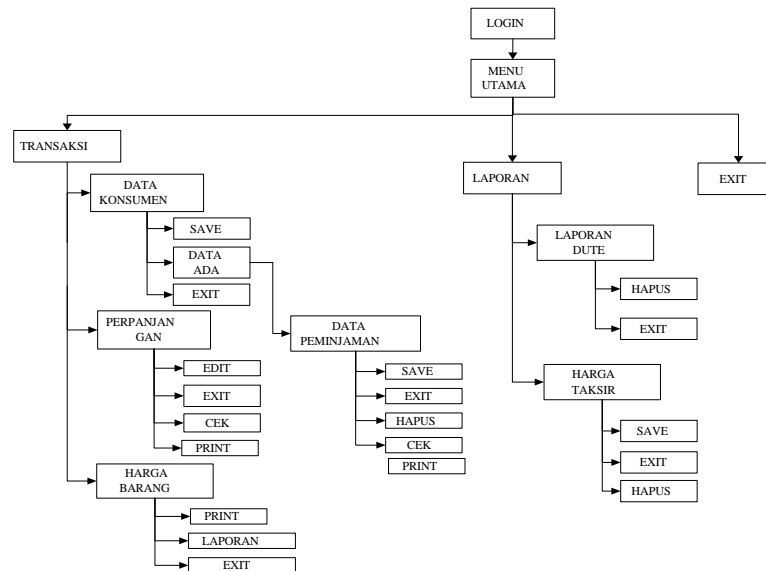


Figure 3
HYPO Structure

2. Flowchart Program

a. Flowchart Login dan Main Menu

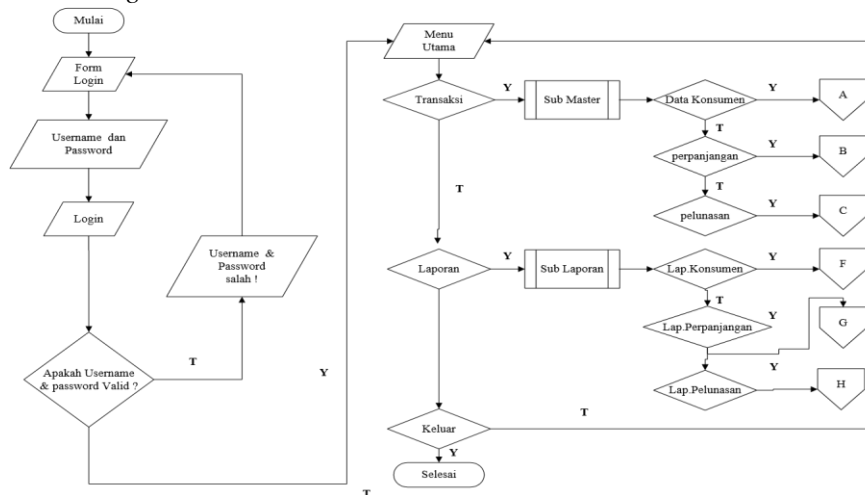


Figure 4
Flowcart Login and Main Menu

b. *Flowchart Consumer Data*

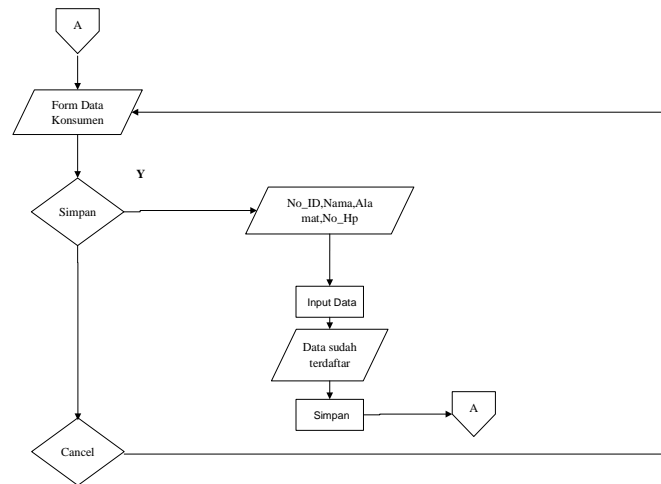


Figure 5
Flowcart Data Menu Contingency

c. *Flowchar Consumer Loan Data Menu*

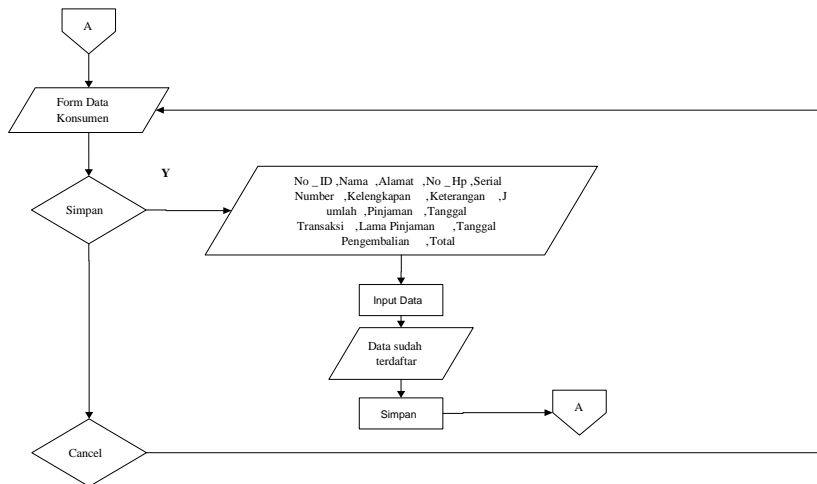


Figure 6
Flowcart Data Menu Loan Contingency

d. *Flowchart Menu Extension*

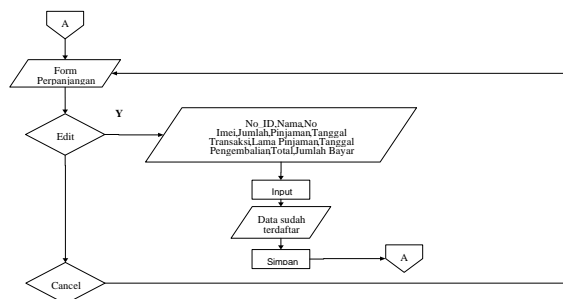


Figure 7
Flowchart Menu Extension

e. *Flowchart Repayment Menu*

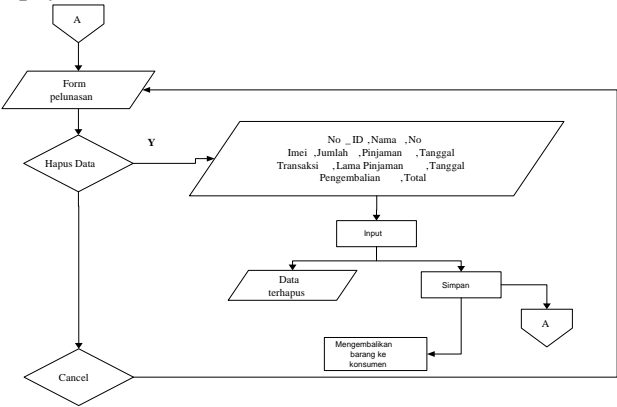


Figure 8
Flowcart Repayment Menu

f. *Flowchart Menu Harga Taksir*

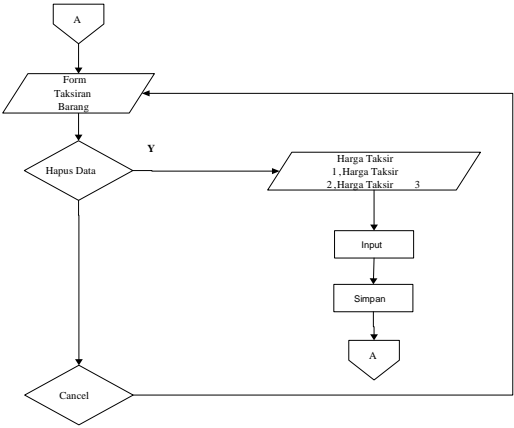


Figure 9
Flowcart Menu Estimated Prices

B. Implementation

Implementation consists of relationships between tables, database structure and program end result as follows:

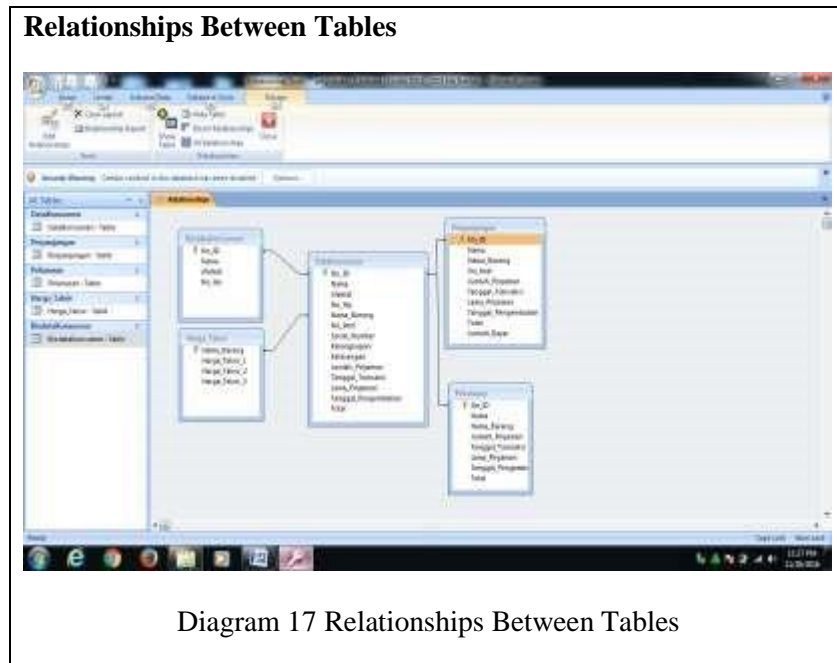


Figure 10
Relationships Between Tables

1. Database Structure

The database used in the creation of the Prima Gadai Bekasi Consumer Data Collection Application Program is using Microsoft Access 2007 and databases (Widodo & Kurnianingtyas, 2017).

Table 2
Consumer Data Table

Field	Data Type	Size
No ID	Autonumber	6
Nama	Text	50
Alamat	Text	150
No HP	Text	12

Table 3
Consumer Data Collection Table

Field	Data Type	Size
No ID	Autonumber	6
Nama	Text	60
Alamat	Text	160
No HP	Text	12
Nama Barang	Text	20

No IMEI	Text	12
Serial Number	Text	12
Kelengkapan	Text	100
Keterangan	Text	100
Jumlah Pinjaman	Number	Long Integer
Tanggal Transaksi	Date/Time	-
Lama Pinjaman	Number	Long Integer
Tanggal Pengembalian	Date/Time	-
Total	Number	Long Integer

2. Main Menu, Input and Output Display

a. Login



Figure 11
Login Input Form

b. Main Menu View



The screenshot displays two Java Swing windows from a Windows XP desktop environment.

Top Window: FORM PENDATA KONSEN PRIMA GADAI

This window has a title bar with "Jendela - FORM PENDATA KONSEN PRIMA GADAI". It features a left sidebar menu with options like "PENDAH", "KONSUMEN", "ALAMAT", etc., under the heading "BIODATA & KONSEN". The main area includes input fields for personal details and a table for biographical data.

No. Ri	Tanggal	Nama	No. Ri
P-0001	01/01/2001	JOHANNES	
P-0002	02/02/2002	MARIA	
P-0003	03/03/2003	ANTONIO	
P-0004	04/04/2004	SARAH	
P-0005	05/05/2005	DANIEL	
P-0006	06/06/2006	EVA	
P-0007	07/07/2007	FREDERICK	
P-0008	08/08/2008	GABRIEL	
P-0009	09/09/2009	HANNAH	
P-0010	10/10/2010	ISRAEL	
P-0011	11/11/2011	JACOB	
P-0012	12/12/2012	KATHERINE	
P-0013	13/13/2013	LUCAS	
P-0014	14/14/2014	MICHAEL	
P-0015	15/15/2015	NANCY	
P-0016	16/16/2016	OSCAR	
P-0017	17/17/2017	PETER	
P-0018	18/18/2018	QUINN	
P-0019	19/19/2019	RICHARD	
P-0020	20/20/2020	SOPHIA	
P-0021	21/21/2021	THEODORE	
P-0022	22/22/2022	URSULA	
P-0023	23/23/2023	VICTOR	
P-0024	24/24/2024	WILLIAM	
P-0025	25/25/2025	XAVIER	
P-0026	26/26/2026	YVETTE	
P-0027	27/27/2027	ZACHARY	
P-0028	28/28/2028	ALEXANDER	
P-0029	29/29/2029	BENEDICT	
P-0030	30/30/2030	CAROLINE	
P-0031	31/31/2031	DOMINIC	
P-0032	32/32/2032	EMILY	
P-0033	33/33/2033	FIONA	
P-0034	34/34/2034	GEOFFREY	
P-0035	35/35/2035	HARRIET	
P-0036	36/36/2036	IGOR	
P-0037	37/37/2037	JANE	
P-0038	38/38/2038	KENNETH	
P-0039	39/39/2039	Laura	
P-0040	40/40/2040	MARTIN	
P-0041	41/41/2041	NATALIE	
P-0042	42/42/2042	OLIVER	
P-0043	43/43/2043	PATRICK	
P-0044	44/44/2044	QUEEN	
P-0045	45/45/2045	ROBERT	
P-0046	46/46/2046	SIMONE	
P-0047	47/47/2047	TERENCE	
P-0048	48/48/2048	ULRICH	
P-0049	49/49/2049	VICTORIA	
P-0050	50/50/2050	WALTER	
P-0051	51/51/2051	Xenia	
P-0052	52/52/2052	YVES	
P-0053	53/53/2053	ZOE	
P-0054	54/54/2054	ADAM	
P-0055	55/55/2055	EVE	
P-0056	56/56/2056	NOAH	
P-0057	57/57/2057	OLIVIA	
P-0058	58/58/2058	PATRICK	
P-0059	59/59/2059	QUINN	
P-0060	60/60/2060	RICHARD	
P-0061	61/61/2061	SOPHIA	
P-0062	62/62/2062	THEODORE	
P-0063	63/63/2063	URSULA	
P-0064	64/64/2064	VICTOR	
P-0065	65/65/2065	WILLIAM	
P-0066	66/66/2066	XAVIER	
P-0067	67/67/2067	YVETTE	
P-0068	68/68/2068	ZACHARY	
P-0069	69/69/2069	ALEXANDER	
P-0070	70/70/2070	BENEDICT	
P-0071	71/71/2071	CAROLINE	
P-0072	72/72/2072	DOMINIC	
P-0073	73/73/2073	EMILY	
P-0074	74/74/2074	FIONA	
P-0075	75/75/2075	GEOFFREY	
P-0076	76/76/2076	HARRIET	
P-0077	77/77/2077	IGOR	
P-0078	78/78/2078	JANE	
P-0079	79/79/2079	KENNETH	
P-0080	80/80/2080	Laura	
P-0081	81/81/2081	MARTIN	
P-0082	82/82/2082	NATALIE	
P-0083	83/83/2083	OLIVER	
P-0084	84/84/2084	PATRICK	
P-0085	85/85/2085	QUEEN	
P-0086	86/86/2086	ROBERT	
P-0087	87/87/2087	SIMONE	
P-0088	88/88/2088	TERENCE	
P-0089	89/89/2089	ULRICH	
P-0090	90/90/2090	VICTORIA	
P-0091	91/91/2091	WALTER	
P-0092	92/92/2092	Xenia	
P-0093	93/93/2093	YVES	
P-0094			

e. Consumer Repayment Input

Figure 15
Consumer Repayment Form

f. Pawn Data Report

Figure 16
Pawn Report Form

Conclusion

The conclusions are as follows: First, with the design of computer programs that the author made, it will soon be known what are the transactions without long in opening the documents. Second, If the calculation process is applied computerized within the company, then the process will be very easy, automatically calculated and programmed so as not to waste a long time. Because the results of this programming process will be good in the office work cycle every day and very effective and efficient. Third, the process of storage and input that is done dengan a

programming that the author makes easy Pawnshop Prima Pawn in the process of data collection. In addition, citations also support the development of information technology.

REFERENCES

- Anhar, Azwir, Advinda, Linda, & Hariati, Desi. (2017). *Peningkatan Hasil Cabai Merah (Capsicum Annum L.) Dengan Penambahan Pupuk Organik Cair Tunika*. [Google Scholar](#)
- Benjamin, Nico. (2014). *Analisis Pengaruh Program Quality Assurance Terhadap kualitas Audit Internal*. Universitas Mercu Buana. [Google Scholar](#)
- Brynjolfsson, Erik, & McAfee, Andrew. (2014). *The Second Machine Age: Work, Progress, And Prosperity In A Time Of Brilliant Technologies*. Ww Norton & Company. [Google Scholar](#)
- Jayanti, Ni Ketut Dewi Ari, & Sumiari, Ni Kadek. (2018). *Teori Basis Data*. Penerbit Andi. [Google Scholar](#)
- Kuper, Gabriel, Libkin, Leonid, & Paredaens, Jan. (2013). *Constraint Databases*. Springer Science & Business Media. [Google Scholar](#)
- Munthe, Ashiong P. (2015). Pentingnya Evaluasi Program Di Institusi Pendidikan: Sebuah Pengantar, Pengertian, Tujuan Dan Manfaat. *Scholaria: Jurnal Pendidikan Dan Kebudayaan*, 5(2), 1–14. [Google Scholar](#)
- Rauber, Thomas, & Rünger, Gudula. (2013). *Parallel Programming*. Springer. [Google Scholar](#)
- Von Zur Gathen, Joachim. (2014). Normal Form For Ritt's Second Theorem. *Finite Fields And Their Applications*, 27, 41–71. [Google Scholar](#)
- Widodo, Agus Wahyu, & Kurnianingtyas, Diva. (2017). *Sistem Basis Data*. Universitas Brawijaya Press. [Google Scholar](#)
- Yasin, Verdi, Zarlis, Muhammad, & Nasution, Mahyuddin K. M. (2018). Filsafat Logika Dan Ontologi Ilmu Komputer. *Journal Of Information System, Applied, Management, Accounting And Research*, 2(2), 68–75. [Google Scholar](#)

Copyright holder :

Dwi Febri Syawaludin (2021)

First publication right :

[Journal of Business, Social and Technology \(Bustechno\)](#)

This article is licensed under:

