



**DEVELOPMENT OF WEB-BASED QUOTATION PRICE
INFORMATION SYSTEM AT PT TOYOTA BOSHOKU INDONESIA**

UNDERGRADUATE THESIS

**Submitted as one of the requirements to obtain
Sarjana Komputer**

By

MUFIDA S. PAKAYA

012201900038

**FACULTY OF COMPUTER SCIENCE
INFORMATION SYSTEM STUDY PROGRAM
CIKARANG
JUNE,2023**

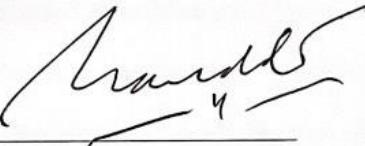
**DEVELOPMENT OF WEB-BASED QUOTATION PRICE
INFORMATION SYSTEM AT PT TOYOTA BOSHOKU INDONESIA**

By

Mufida S. Pakaya

012201900038

Approved by:



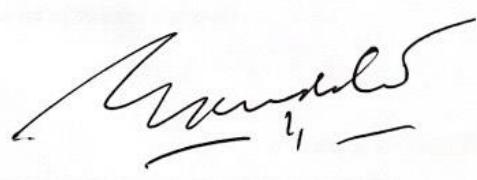
Ir.Rila Mandala,M Eng,Ph.D

Thesis Advisor



Ronny Junowo, S.Pd.,M.T

Program Head of Information System



Ir.Rila Mandala,M Eng,Ph.D

Dean of Faculty of Computing

THE STATEMENT OF ORIGINALITY

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

Name : Mufida S. Pakaya

Student ID number : 012201900038

Study Program : Information System

Faculty : Computing

I declare that my thesis/final project/business plan is legitimate "**DEVELOPMENT OF WEB-BASED QUOTATION PRICE INFORMATION SYSTEM AT PT TOYOTA BOSHOKU INDONESIA**" is to the best of my knowledge and belief, an original piece of work based on solid scientific principles. If plagiarism is found in this thesis/final project/business plan, I agree to be personally responsible for the consequences of those acts of plagiarism and accept sanctions for such acts in accordance with the rules and policies of the President University.

I also declare that this work, in whole or part, has not been submitted to any other university for the purpose of obtaining a degree.

Cikarang, 14 June 2023



(.....)

Mufida S. Pakaya

SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST

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

Name : Mufida S. Pakaya

Student ID Number : 012201900038

Study Program : Information System

I certify and authorize granting the Chancellor a non-exclusive, royalty-free right to my final report for the purpose of advancing science and technology:

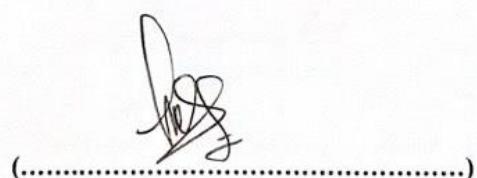
Development of Web-Based Quotation information System

at PT Toyota Boshoku Indonesia

This non-exclusive, royalty-free right grants President University the right to converse, convert, manage in the database, maintain, and publish my final report. This is to address the President University's obligation to mention my name as the copyright owner of my final report.

This statement I made is true.

Cikarang, 14 June 2023



(.....)

Mufida S. Pakaya

ADVISOR APPROVAL FOR JOURNAL

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

Name : Ir. Rila Mandala, M.Eng., Ph.D.

ID Number : 200209021

Study Program : Information System

Faculty : Computing

Declare the following Final Project:

The Title of Final Project : Development of Web-Based Quotation Price Information System

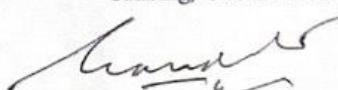
at PT Toyota Boshoku Indonesia

Final Project author : Mufida S. Pakaya

Student ID Number : 012201900038

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

Cikarang, 14 June 2023



(.....)

Ir. Rila Mandala, M.Eng., Ph.

PANEL OF EXAMINER APPROVAL

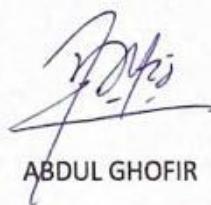
The Panel of Examiners declare that the undergraduate thesis entitled **DEVELOPMENT OF WEB-BASED QUOTATION PRICE INFORMATION SYSTEM AT PT TOYOTA BOSHOKU INDONESIA** that was submitted by **MUFIDA S. PAKAYA** majoring in **Informatics** from the Faculty of Computer Science was assessed and approved to have passed the Oral Examination on Friday June 23, 2023.

Panel of Examiner



RUSDIANTO ROESTAM

Chair of Panel Examiner


ABDUL GHOFIR

Examiner I

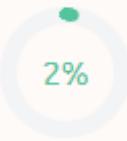
Final Project_Mufida S Pakaya_012201900038 fix

ORIGINALITY REPORT



PRIMARY SOURCES

1	repository.president.ac.id Internet Source	10%
2	Submitted to President University Student Paper	3%
3	jidt.org Internet Source	<1 %
4	www.theseus.fi Internet Source	<1 %
5	Submitted to Universiti Tunku Abdul Rahman Student Paper	<1 %
6	Submitted to Asia Pacific University College of Technology and Innovation (UCTI) Student Paper	<1 %
7	Submitted to HELP UNIVERSITY Student Paper	<1 %
8	www.coursehero.com Internet Source	<1 %
9	media.neliti.com Internet Source	<1 %



2%

This text is most likely to be written by a **human**

There is a **2%** probability this text was entirely written by AI

DEVELOPMENT OF WEB-BASED QUOTATION PRICE INFORMATION SYSTEM
AT PT TOYOTA BOSHOKU INDONESIA UNDERGRADUATE THESIS Submitted
as one of the requirements to obtain Sarjana Komputer By MUFIDA S.
PAKAYA 012201900038 FALCUTY OF COMPUTER SCIENCE INFORMATION
SYSTEM STUDY PROGRAM CIKARANG JUNE,2023 Copyright by Mufida S.
Pakaya 2023 DEVELOPMENT OF WEB-BASED QUOTATION PRICE
INFORMATION SYSTEM AT PT TOYOTA BOSHOKU INDONESIA By Mufida S.
Pakaya 012201900038 Approved by: _____

_____ Ir.Rila Mandala,M Eng,Ph.D Thesis Advisor
Ronny Junowo, S.Pd.,M.T Program Head of Information System

_____ Ir.Rila Mandala,M Eng,Ph.D Dean of
Faculty of Computing i THE STATEMENT OF ORIGINALITY In my capacity as an

0/21 sentences are likely AI generated.

ABSTRACT

PT Totoya Boshoku is a company engaged in manufacturing that produces Interiors and Seats, etc. PT Toyota Boshoku acts as a supplier that sells the products it makes to several regular customers. In making an offer from the seller to the buyer there is a quotation document still using a simple information system or manual calculation with a method that will certainly take a lot of time. Errors in inputting also often occur because many files must be opened to enter the results of process calculations into it.

This study aims to try the implementation of a new quotation system, which is a website-based system designed with a neat and easy-to-understand user interface so that it will be much more efficient in its use. This system is open source using the PHP framework called Laravel for easier and faster results..

ACKNOWLEDGMENTS

My gratitude goes to the presence of Allah SWT for the gift that has been given to me until now I have finished working on my thesis entitled "Design of a Web-Based Quotation Calculation Information System for ADM at PT Toyota Boshoku Indonesia" as a student with graduation requirements for complete the final task.

For me, life on campus has its own color and I can learn how to be strong in the future. For that, I would like to express my thanks to:

1. I would like to thank Allah SWT who has given me health, pleasure and smoothness in working on this thesis.
2. To my parents and my big Family who always provide direction, support and motivation to keep moving forward to create something better in the future and who always pray for me no matter what the circumstances.
3. Mr. Rila Mandala as the supervisor of my final project who is always ready to provide direction, advice and support from start to finish.
4. To all computing lecturers who have provided the best teaching and experience for their efforts.
5. To Friends Putra Putri Terbaik Gorontalo. which I consider to be my second family in this overseas land, thank you for your support and support for the past 4 years so that until now I can finish working on this thesis.
6. Thanks to my friend Ifra who wants to help me find inspiration, and also to my intern friends who are trying to help me collect data for designing this system.

ABSTRACT

THE STATEMENT OF ORIGINALITY	i
SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST	ii
ADVISOR APPROVAL FOR JOURNAL.....	iii
SIMILARITY INDEX REPORT	iv
ABSTRACT	v
DEDICATION.....	vi
ACKNOWLEDGMENTS	vii
TABLE OF CONTENTS	viii
LIST OF FIGURE	xii
LIST OF TABLE.....	xix
CHAPTER I INTRODUCTION.....	1
1.1 Background	1
1.2 Problem Statement	2
1.3 Project Objective.....	3
1.4 Scope and Limitation	3
1.4.1 Scope	3
1.4.2 Limitation.....	3
1.5 Methodology	4
1.6 Final Project Outline	5
CHAPTER II LITERATURE REVIEW	7
2.1 Information System.....	7
2.2 Web-Based Software	8
2.3 Quotation in PT Toyota Boshoku Indonesia.....	8

2.4	Business Process	9
2.5	Related Work	11
2.5.1	“Quotation website”	11
2.6	Comparison Table.....	11
	CHAPTER III SYSTEM ANALYST.....	13
3.1	System Overview	13
3.2	Functional Analysis	14
3.3	Use Case Diagram	15
3.4	Use Case Narrative	17
3.5	Activity Diagram	64
3.4.1	Activity Diagram for login Website Admin	64
3.4.2	Activity Diagram for login Website Supervisor	66
3.4.3	Activity Diagram for login Website Manager Marketing	67
3.4.4	Activity Diagram for login Website Staff	68
3.4.5	Activity Diagram for Create new user.....	69
3.4.6	Activity Diagram for Create user permission	70
3.4.7	Activity Diagram for Create role to user	71
3.4.8	Activity Diagram for Import processing material data.....	72
3.4.9	Activity Diagram for Insert processing material data.....	72
3.4.10	Activity Diagram for Edit processing material data	73
3.4.11	Activity Diagram for Delete processing material data	74
3.4.12	Activity Diagram for Search processing material data.....	75
3.4.13	Activity Diagram for Previous processing material data.....	76
3.4.14	Activity Diagram for Import processing process data.....	77
3.4.15	Activity Diagram for Insert processing process data.....	78
3.4.16	Activity Diagram for Edit processing process data	79
3.4.17	Activity Diagram for Delete processing process data	80
3.4.18	Activity Diagram for Search processing process data.....	81
3.4.19	Activity Diagram for Previous processing process data.....	82
3.4.20	Activity Diagram for Import processing Currency data	83
3.4.21	Activity Diagram for Insert processing Currency data.....	84

3.4.22	Activity Diagram for Edit processing Currency data	86
3.4.23	Activity Diagram for Delete processing Currency data	87
3.4.24	Activity Diagram for Search processing Currency data.....	88
3.4.25	Activity Diagram for Previous processing Currency data.....	89
3.4.26	Activity Diagram for Insert processing summary data.....	90
3.4.27	Activity Diagram for Delete processing summary data	91
3.4.28	Activity Diagram for Search processing summary data.....	92
3.4.29	Activity Diagram for See data final summary cost	93
3.4.30	Activity Diagram for Create calculation material cost	94
3.4.31	Activity Diagram for Delete calculating material cost	95
3.4.32	Activity Diagram for Add to list table calculating material cost.....	96
3.4.33	Activity Diagram for Create calculating process cost	97
3.4.34	Activity Diagram for Delete calculating process cost	97
3.4.35	Activity Diagram for Add to list table calculating process cost.....	98
3.4.36	Activity Diagram for Create calculating purchase cost.....	99
3.4.37	Activity Diagram for Delete calculating purchase cost.....	100
3.4.38	Activity Diagram for Add to list table calculating purchase cost.....	101
3.4.39	Activity Diagram for Submit data calculate	102
3.4.40	Activity Diagram for Download summary result to excel	103
3.4.41	Activity Diagram for Insert Cost	104
CHAPTER IV SYSTEM DESIGN		106
4.1	Interface Design	106
4.2	Physical Design.....	136
4.3	Entity Database diagram	137
CHAPTER V SYSTEM IMPLEMENTATION.....		138
5.1	User Interface.....	138
5.2	Source code	149
CHAPTER VI SYSTEM TESTING		163
6.1	Testing Environment.....	163
6.2	Testing Scenario.....	163

CHAPTER VII CONCLUSION AND FUTURE WORK	175
7.1 Conclusion	175
7.2 Future Work.....	175
BIBLIOGRAPHY	176

LIST OF FIGURE

Figure 1.1Rapid Application Development.....	4
Figure 2.1 Business Prosess.	10
Figure 3.2 Quotation Website.....	11
Figure 3.1 Use Case Diagram.....	16
Figure 3. 2 Activity Diagram Login Website login.....	65
Figure3. 3 Activity Diagram Login Website Supervisor.....	66
Figure3. 4 Activity Diagram Login Website Manager Marketing	67
Figure 3. 5 Activity Diagram Login Website Staff	68
Figure 3. 6 Activity Diagram for Create new user	69
Figure 3. 7 Activity Diagram for Create user permission	70
Figure 3. 8 Activity Diagram for Create role to user.....	71
Figure 3. 9 Activity Diagram for Import processing material data	72
Figure 3. 10 Activity Diagram for Insert processing material data	73
Figure 3. 11 Activity Diagram for Edit processing material data.....	74
Figure 3. 12 Activity Diagram for Delete data supervisor	75
Figure 3. 13 Activity Diagram for Search processing material data	76

Figure 3. 14 Activity Diagram for Previous processing material data	77
Figure 3. 15 Activity Diagram for Import processing process data	78
Figure 3. 16 Activity Diagram for Insert processing process data	79
Figure 3. 17 Activity Diagram for Edit processing process data.....	80
Figure 3. 18Activity Diagram for Delete processing process data.....	81
Figure 3. 19 Activity Diagram for Search processing process data	82
Figure 3. 20 Activity Diagram for Previous processing process data	83
Figure 3. 21 Activity Diagram for Import processing Currency data.....	84
Figure 3. 22 Activity Diagram for Insert processing Currency data	85
Figure 3. 23 Activity Diagram for Edit processing Currency data.....	86
Figure 3. 24 Activity Diagram for Delete processing Currency data	87
Figure 3. 25 Activity Diagram for Search processing Currency data.....	88
Figure 3. 26 Activity Diagram for Previous processing Currency data	89
Figure 3. 27 Activity Diagram for Insert processing summary data	90
Figure 3. 28 Activity Diagram for Delete processing summary data	91
Figure 3. 29 Activity Diagram for search processing summary data	92
Figure 3. 30 Activity Diagram for See data final summary cost	93

Figure 3. 31 Activity Diagram for Create calculation material cost.....	94
Figure 3. 32 Activity Diagram for Delete calculating material cost.....	95
Figure 3. 33 Activity Diagram for Add to list table calculating material cost	96
Figure 3. 34 Activity Diagram for Create calculating process cost.....	97
Figure 3. 35 Activity Diagram for Delete calculating process cost.....	98
Figure 3. 36 Activity Diagram for Add to list table calculating process cost	99
Figure 3. 37 Activity Diagram for Create calculating purchase cost	100
Figure 3. 38 Activity Diagram for Delete calculating purchase cost	101
Figure 3. 39 Activity Diagram for Add to list table calculating purchase cost	102
Figure 3. 40 Activity Diagram for Submit data calculation	103
Figure 3. 41 Activity Diagram for Download Summary result.....	104
Figure 3. 42 Activity Diagram for Insert Cost.....	105
Figure 4. 1 Interface Design Login.....	106
Figure 4. 2 Interface Design to user	107
Figure 4.3 Interface Design to permission access	109
Figure 4.4 Interface Design to Role.....	111
Figure 4.5 Interface Design to Create user	113

Figure 4.6 Interface Design to Create permission	114
Figure 4.7 Interface Design to create role	115
Figure 4.8 Interface Design to Detail role	116
Figure 4.9 Interface Design to Data material.....	117
Figure 4.10 Interface Design to Data Process	119
Figure 4.11 Interface Design to Data currency slide	122
Figure 4.12 Interface Design to Currency non slide.....	124
Figure 4.13 Interface Design to Import data.....	127
Figure 4.14 Interface Design to Insert data	128
Figure 4.15 Interface Design to Delete material data.....	129
Figure 4.16 Interface Design to Edit material data.....	130
Figure 4.17 User interface to Material cost calculation.....	131
Figure 4.18 Interface Design to Process cost calculation	132
Figure 4.19 Interface Design to Purchase cost calculation.....	133
Figure 4.20 Interface Design to Summary cost calculation.....	134
Figure 4.21 Interface Design Insert Cost.....	135
Figure 4.22 Entity Relation Diagram	137

Figure 5. 1 User Interface Login Website	138
Figure 5. 2 User interface Users	139
Figure 5. 3 User interface Permission.....	139
Figure 5. 4 User interface Role.....	140
Figure 5. 5 User interface Create user	140
Figure 5. 6 User interface Create permission	141
Figure 5. 7 User interface Create role.....	141
Figure 5. 8 User interface Detail role	142
Figure 5. 9 User interface Data material.....	142
Figure 5. 10 User interface Data process.....	143
Figure 5. 11 User interface Data currency slide	143
Figure 5. 12 User interface Data currency non slide	144
Figure 5. 13 User interface Import data.....	144
Figure 5. 14 User interface Insert material data	145
Figure 5. 15 User interface Delete material data	145
Figure 5. 16 User interface Edit material data.....	146
Figure 5. 17 User interface Create cost ADM.....	146

Figure 5. 18 User interface Material cost calculation.....	147
Figure 5. 19 User interface Process cost calculation	147
Figure 5. 20 User interface Purchase cost calculate	148
Figure 5. 21 User interface Summary cost calculation.....	148
Figure 5.22 Code Login.....	149
Figure 5.22 Code Create User	150
Figure 5.23 Code Create permission.	150
Figure 5.24 Code Create Role	151
Figure 5.25 Code Detail Role	152
Figure 5.26 Code Data material.....	152
Figure 5.27 Code Data Process.....	153
Figure 5.28 Code Data currency.....	154
Figure 5.29 Code Import data.....	155
Figure 5.30 Code Insert data.....	156
Figure 5.31 Code Delete material data	157
Figure 5.32 Code Edit data.....	157
Figure 5.33 Code Add data cost	158

Figure 5.34 Code Calculate	158
Figure 5.36 Code Material Cost	160
Figure 5.37 Code Process Cost.....	161
Figure 5.38 Code Purchase Cost.....	161
Figure 5.39 Code Summary Cost	162

LIST OF TABLE

Table 2.1 Comparison Table	11
Table 3.1 Functional Description Website	14
Table 3.2 Use Case Login Narrative Website	17
Table 3.3 Use Case Login Narrative Website Supervisor	18
Table 3.4 Use Case Login Narrative Website Manager Marketing.....	19
Table 3.5 Use Case Login Narrative Website Staff.....	20
Table 3.6 Use Case Narrative Create the new user	21
Table 3.7 Use Case Narrative Create the user permission.....	22
Table 3.8 Use Case Narrative Create role to user.....	23
Table 3.9 Use Case Narrative process supervisor Import material data.....	24
Table 3.10 Use Case Narrative process supervisor Insert material data.....	25
Table 3.11 Use Case Narrative process supervisor edit material data.....	26
Table 3.12 Use Case Narrative process supervisor Delete material data	27
Table 3.13 Use Case Narrative Process Supervisor Search material data	28
Table 3.14 Use Case Narrative Process Supervisor Previous material data.....	29
Table 3.15 Use Case Narrative Process Supervisor Import Data Process	30

Table 3.16 Use Case Narrative Process Supervisor Insert Data Process.....	31
Table 3.17 Use Case Narrative Process Supervisor Delete Data Process	32
Table 3.18 Use Case Narrative Process Supervisor Search Data Process.....	33
Table 3.19 Use Case Narrative Process Supervisor Edit Data Process	34
Table 3.20 Use Case Narrative Process Supervisor Previous Data Process.....	35
Table 3.21 Use Case Narrative Process Supervisor Import Data Currency	36
Table 3.22 Use Case Narrative Process Supervisor Insert Data Currency	37
Table 3.23 Use Case Narrative Process Supervisor Delete Data Currency.....	39
Table 3.24 Use Case Narrative Process Supervisor Search Data Currency	40
Table 3.25 Use Case Narrative Process Supervisor Previous Data Currency	41
Table 3.26 Use Case Narrative Process Supervisor Edit Data Currency	42
Table 3.27 Use Case Narrative Manager marketing Search for data	43
Table 3.28 Use Case Narrative See Data Final Summary Cost.....	44
Table 3.29 Use Case Narrative Create Data Material Cost	45
Table 3.30 Use Case Narrative Delete Data Material Cost	46
Table 3.31 Use Case Narrative Add to list Data Material Cost.....	47
Table 3.32 Use Case Narrative Create Data Process Cost.....	49

Table 3.33 Use Case Narrative Delete Data Process Cost.....	50
Table 3.34 Use Case Narrative Add to list Data Process Cost.....	51
Table 3.35 Use Case Narrative Create Data Purchase Cost	52
Table 3.36 Use Case Narrative Delete list Purchase Cost.....	54
Table 3.37 Use Case Narrative Add to list Data Purchase Cost.....	55
Table 3.38 Use Case Narrative Submit Data.....	56
Table 3.39 Use Case Narrative Download summary result to excel	57
Table 3.40 Use Case Narrative Logout Admin	58
Table 3.41 Use Case Narrative Logout Supervisor	59
Table 3.42 Use Case Narrative Logout Manager Marketing.....	60
Table 3.43 Use Case Narrative Logout Staff.....	61
Table 3.44 Use Case Insert data to calculate	61
Table 3.45 Use Case Narrative Calculate	62
Table 3.46 Use Case Narrative Download summary result to excel	63
Table 4. 1 Login Website Description	107
Table 4. 2 User Website Description.....	108
Table 4. 3 Permission Access Website Description	109

Table 4. 4 Permission Access Website Description	111
Table 4. 5 Create User Website Description	113
Table 4. 6 Create Permission Website Description	114
Table 4. 7 Create Role Website Description	115
Table 4. 8 Detail Role Website Description	116
Table 4. 9 Data Material Resin Website Description	117
Table 4. 10 Data Process Website Description.....	120
Table 4. 11 Data currency slide Website Description	122
Table 4. 12 Data Currency non Slide Website Description.....	125
Table 4. 13 Import Data Website Description.....	127
Table 4. 14 Insert Data Website Description.....	128
Table 4. 15 Delete Material Data Website Description.....	129
Table 4. 16 Edit Material Data Website Description.....	130
Table 4.17 Material cost calculation Website Description.....	131
Table 4. 18 Process cost calculation Website Description	132
Table 4.19 Purchase cost calculation Website Description	133
Table 4. 20 Summary cost calculation Website Description	135

Table 4. 21 Summary cost calculation Website Description.....	136
Table 4.22 Physical Design.....	136
Table 6.1 Testing Scenario Quotation TBINA MKT	163