



Web-Based Management System for a Jewelry Store

UNDERGRADUATE THESIS

Submitted as one of the requirements to obtain

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1	TABLE OF CONTENTS STATEMENT OF ORIGINALITY.....	
4	SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST.....	
5	SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST.....	
6	TURNITIN CHECK RESULTS.....	
7	GPT ANTI-PLAGIARISM CHECK RESULTS.....	
8	ABSTRACT.....	
9	ACKNOWLEDGMENT.....	
10	TABLE OF CONTENTS.....	
11	LIST OF FIGURES.....	
14	LIST OF TABLES.....	
15	CHAPTER I PROPOSAL.....	
16	1.1 Problem Formulation.....	
16	1.2 Problem Constraint Analysis.....	
18	1.3 Problem Functional Analysis.....	
18	1.4 Solution Selection.....	
19	1.5 Solution Usage Scenarios.....	
20	1.6 Development Effort.....	
21	CHAPTER II SPECIFICATION.....	
25	2.1 Existing System and Proposed System.....	
25	2.2 Global Description of The Product.....	
26	2.3 Requirement Analysis.....	
29	2.4 Functional Requirements.....	
43	2.6 Specification Testing.....	
47	CHAPTER III DESIGN.....	
48	3.1 Alternative Solution Design.....	
48	3.2 Rational/Systematic Design.....	
51	3.3 Hierarchical/Iterative Design.....	
55	3.4 Verification Demonstration and Proof of Design Process.....	
82	3.5 Standards Used.....	
82	3.6 Implementation.....	

ABSTRACT

This project aims to overcome operational challenges faced by jewelry stores that still rely on manual record keeping. The main issues identified include a high risk of human error in data entry, inaccurate stock tracking, irregularity in gold price updates, as well as poor customer experience due to slow transactions. To overcome this problem, the project will integrate a management system that includes real-time gold price updates via API from Precious Metals, an online product catalog to make it easier for customers to browse and purchase products, and QR code scanning to reduce manual errors. Implementation of this management system is expected to increase operational efficiency, reduce the risk of errors, and improve customer experience. This project uses the Waterfall Development Method which includes the stages of analysis, system design, implementation, testing, and implementation and maintenance, which are carried out sequentially to ensure system quality and security. Properly invested, these changes can provide a long-term return on investment through improved operational efficiency, business growth, and increased customer satisfaction.

Keywords: Management System for Jewelry Store, PoS Cashier, Inventory Management

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TABLE OF CONTENTS

TURNITIN CHECK RESULT	5
CHECK GPT RESULT	5
ABSTRACT	5
ACKNOWLEDGMENTS	6
TABLE OF CONTENTS	7
LIST OF FIGURES	14
LIST OF TABLES	17
CHAPTER I	19
PROPOSAL	19
1.1 Problem Formulation	19
1.1.1 Background of the Problem	19
1.1.2 Problem Statement	20
1.1.3 Objectives	20
1.1.4 Problem from a Customer Perspective	21
1.2 Problem Constraint Analysis	21
1.2.1 Economic Aspects	21
1.2.2 Manufacturability Aspects	22
1.2.3 Sustainability Aspects	22
1.3 Problem Functional Analysis	22
1.3.1 Real-time gold price update function	22
1.3.2 Product catalog feature for customers	22
1.3.3 QR code scanning feature on product and invoice:	23
1.4 Solution Selection	23
1.4.1 Alternative Solution 1	23
1.4.2 Alternative Solution 2	23
1.4.3 Alternative Solution 3	23
1.4.4 Solution Selection	24
1.5 Solution Usage Scenarios	25
1.6 Development Effort	25
1.6.1 Man-months	25
1.6.2 Machine-months	26
1.6.3 Development Tools	27
1.6.4 Test Equipment	27
1.6.5 Expert Needs	28
1.6.6 Cost Estimation	29
1.6.7 Timeline	29
Table 1.1 Timeline	29
1.7 Conclusion	29

CHAPTER II	31
SPECIFICATION	31
2.1 Existing System and Proposed System	31
2.1.1 Existing Business Process	31
Figure 2.1 Flow diagram Existing Business Process	31
2.1.2 Proposed Business Process	32
Figure 2.2 Flow Diagram of Proposed Business Process	32
2.2 Global Description of The Product	32
2.2.1 Main Functionality	32
2.2.2 User Characteristics	34
Table 2.1 Table User Characteristics	34
2.2.3 Constraints	34
2.2.4 Product Development Environment	35
2.2.5 Product Operational Environment	
The operational process for this application requires some tools to achieve the expected result.	
There are listed as follows	36
2.3 Requirement Analysis	36
2.3.1 External Interface	36
2.3.2 Functional Description	37
Figure 2.3 Use Case Diagram	38
Table 2.2 Use Case Scenario Registration	39
Table 2.3 Use Case Scenario Login	40
Table 2.4 Use Case Scenario Manage Product	41
Table 2.5 Use Case Scenario Manage Catalog	41
Table 2.6 Use Case Scenario Manage Product Category	42
Table 2.7 Use Case Scenario Manage Customer	43
Table 2.8 Use Case Scenario Manage Supplier	44
Table 2.9 Use Case Scenario Manage Transaction Sell	45
Table 2.10 Use Case Scenario Manage Transaction Buy	46
Table 2.11 Use Case Scenario Manage Report Sell	46
Table 2.2 Use Case Scenario Manage Report Buy	47
2.3.3 Data Requirements	47
Figure 2.3 Entity Relationship Diagram	48
Table 2.13 Data Dictionary	49
Table 2.13 Entity Tables User	49
Table 2.14 Entity Tables Jewelry	50
Table 2.15 Entity Tables Inventory	50
Table 2.16 Entity Tables Transaction	51
Table 2.16 Entity Tables Customer	51
2.4 Functional Requirements	52
2.4.1 Context Diagram	52

Figure 2.4 Context Diagram.....	52
2.4.2 Activity Diagram and Data Flow Diagram	52
Figure 2.5 Diagram Activity.....	54
b. Data Flow Diagram	54
Figure 2.6 Data Flow Diagram.....	54
2.5 Non-Functional Requirement	55
2.6 Specification Testing	56
CHAPTER III.....	57
DESIGN	57
3.1 Alternative Solution Design	58
3.1.1 Alternative Solution 1	58
Figure 3.1 DFD Level 0.....	58
Figure 3.2 DFD Level 1.....	58
3.1.2 Alternative Solution 2	59
Figure 3.4 DFD Level 1.....	59
3.1.3 Alternative Solution 3	60
Figure 3.5 DFD Level 0.....	60
Figure 3.6 DFD Level 1.....	60
3.2 Rational/Systematic Design.....	61
3.2.1 Comparison Table	61
Table 2.17 Comparison Table	62
3.2.2 Quantitative Solution Selection.....	62
Table 2.18 Quantitative Solution Selection	63
Table 3.19 Alternative Solution 1.....	64
Table 3.20 Alternative Solution 2.....	64
Table 3.21 Alternative Solution 3.....	65
3.2.3 Solution Selection	65
3.3 Hierarchical/IterativeDesign	66
3.3.1 Data flow diagram.....	66
Figure 3.7 DFD Level 0.....	67
Figure 3.8 DFD Level 1.....	68
Figure 3.9 DFD Level 2.....	69
Figure 3.10 DFD Level 2 adminController	70
Figure 3.11 DFD Level 2 profileController	71
Figure 3.12 DFD Level 3 Manage Product.....	71
Figure 3.13 DFD Level 3 create QR code.....	73
Figure 3.14 DFD Level 2 customers manage profile	74
Figure 3.15 DFD Level 3 Manage Category.....	75
Figure 3.16 DFD Level 3 Manage Supplier.....	76
3.3.2 Waterfall Development Model (Waterfall Model).....	76
Figure 3.20 Waterfall Model.....	76

3.3.3 Implement steps in Software Engineering Design as your design documentation	78
3.3.4 Provide the details of component references and libraries used	81
3.3.5 Unified Modeling Language 2.0.....	82
Figure 3.21 Use Case Diagram	82
Figure 3.22 Item Activity Diagram.....	83
Figure 3.23 Transaction Sell Activity Diagram	84
Figure 3.24 Payment Activity Diagram	86
Figure 3.25 Report Activity Diagram	87
Figure 3.26 LogamMulia API Activity Diagram	88
Figure 3.27 Gold Price API Integration Flow	89
Figure 3.28 Customer Operation.....	90
Figure 3.29 Transaction Management.....	91
Figure 3.30 Payment Processing Flow	92
Figure 3.31 ERD	93
Table 3.22 User Entity Tables	94
Table 3.23 Jewelry Entity Tables	95
Table 3.24 Inventory Entity Tables	96
Table 3.25 Transaction Entity Tables.....	96
Table 3.26 Customer Entity Tables	97
3.4 Verification Demonstration and Proof of Design Process	97
3.5 Standards Used	97
Table 3.27 Standard Use.....	99
3.6 Implementation and Testings Plans	99
Figure 3.33 Gantt Chart	99
CHAPTER IV	101
IMPLEMENTATION.....	101
4.1 Designs Implementation	101
Figure 4.1 DFd level 3 store()	101
Figure 4.2 Screenshot of code store().....	101
Figure 4.3 Screenshot of code adds new user.....	102
Figure 4.4 Screenshot of verification email	102
Figure 4.5 DFD level 3 verify	102
Figure 4.6 Screenshot of code verification email to customers.....	103
Figure 4.6 DFD level 2 login_customer()	104
Figure 4.7 Screenshot of code customer authenticated	104
Figure 4.8 Screenshot of code login customer	104
Figure 4.9 Screenshot of code customer show	105
Figure 4.10 Screenshot of code customer show(2)	106
Figure 4.11 Screenshot of code admin show.....	107
Figure 4.11 Screenshot of code admin show(2).....	107
Figure 4.12 Screenshot of code login.....	108

Figure 4.13 DFD level 2 admin controller	109
Figure 4.14 DFD level 3 catalog.....	110
Figure 4.18 Screenshot of code catalog	110
Figure 4.19 Screenshot of code catalog add.....	111
Figure 4.20 Screenshot of code catalog delete	111
Figure 4.21 Screenshot of code category	112
Figure 4.22 Screenshot of code category	112
Figure 4.23 Screenshot of code category store.....	113
Figure 4.24 Screenshot of code category update.....	113
Figure 4.25 Screenshot of code category delete.....	114
Figure 4.27 Screenshot of code supplier	115
Figure 4.28 Screenshot of code supplier store	115
Figure 4.29 Screenshot of code supplier update.....	116
Figure 4.30 Screenshot of code supplier delete.....	116
Figure 4.31 DFD customer.....	117
Figure 4.32 Screenshot of code customer	118
Figure 4.33 Screenshot of code customer store.....	118
Figure 4.34 Screenshot of code customer update.....	119
Figure 4.35 Screenshot of code customer delete	120
Figure 4.36 DFD Item	121
Figure 4.37 Screenshot of code item	121
Figure 4.38 DFD item store	122
-.....	123
Figure 4.39 Screenshot of code item store	123
Figure 4.40 Screenshot of code item update	125
Figure 4.41 Screenshot of code item delete	126
4.2 Database implementation based on the design	126
Figure 4.42 Screenshot of table data base category	127
Figure 4.43 Screenshot of table data base company.....	127
Figure 4.44 Screenshot of table data base customer.....	128
Figure 4.45 Screenshot of table data base gold price	128
Figure 4.46 Screenshot of table data base product	129
Figure 4.47 Screenshot of table database supplier	130
Figure 4.48 Screenshot of table database transaction buy.....	130
Figure 4.49 Screenshot of table database transaction sell	131
Figure 4.50 Screenshot of table database user.....	132
4.3 Product Display The Reference Material.....	133
4.3.1 Software Product Display.....	133
Figure 4.51 Screenshot displaying the index.....	134
Figure 4.52 Screenshot displaying registration	135
Figure 4.53 Screenshot displaying the log in	135

Figure 4.54 Screenshot displaying the login admin	136
Figure 4.55 Screenshot displaying the dashboard for admin	137
Figure 4.56 Screenshot displaying the item list.....	138
Figure 4.57 Screenshot displaying the catalog list	138
Figure 4.82 Screenshot displaying the category list.....	139
Figure 4.58 Screenshot displaying the customer list	140
Figure 4.59 Screenshot displaying the supplier list.....	140
4.4 Component Cost Analysis	140
4.5 Manual Guide	141
4.5.1 System Build Documentation From The Source.....	141
Figure 4.60 Screenshot displaying the code to instal composer.....	141
Figure 4.61 Screenshot displaying code run laravel.....	142
4.5.2 System Installation	142
4.6 Video Demonstration.....	143
CHAPTER V	144
TESTING.....	144
5.1 Restate the problem as stated in the F-100 document.....	144
5.2 Restate the specifications stated in the F-200 document.....	145
5.2.1 Main Functionality	145
5.3 Functional Testing.....	146
Figure 5.1 Screenshot displaying the dashboard	146
Figure 5.2 Screenshot displaying the dashboard grafic.....	147
Figure 5.3 Screenshot displaying the product listing	147
Figure 5.4 Screenshot displaying the product information.....	148
Figure 5.5 Screenshot displaying the catalog.....	148
Figure 5.6 Screenshot displaying example QR code.....	149
Figure 5.7 Screenshot displaying scan camera.....	149
Figure 5.8 Screenshot displaying the detail transaction	150
5.3.2 Qualitative Testing	150
5.4 Testing Other Specifications.....	151
5.4.1 Non-functional specifications such as size, weight, etc., that are included in the document	151
Table 5.1 Non functional specification	154
5.4.2 A photo/recording of the test is shown in the document	154
REFERENCES	165
Mustahir, B., Kembuan, O., & Kumajas, S. (2021). Aplikasi Penjualan di Toko Emas Surya Kencana Kota Bitung Menggunakan Framework Codeigniter. Journal of Informatics Engineering, 02(02), 30-31.....	165

LIST OF FIGURES

Figure 2.1 Flow diagram Existing Business Process	31
Figure 2.2 Flow Diagram of Proposed Business Process.....	32
Figure 2.3 Use Case Diagram	38
Figure 2.3 Entity Relationship Diagram	48
Figure 2.4 Context Diagram.....	52
Figure 2.5 Diagram Activity.....	54
Figure 2.6 Data Flow Diagram.....	54
Figure 3.1 DFD Level 0	58
Figure 3.2 DFD Level 1	58
Figure 3.4 DFD Level 1	59
Figure 3.5 DFD Level 0	60
Figure 3.6 DFD Level 1	60
Figure 3.7 DFD Level 0	67
Figure 3.8 DFD Level 1	68
Figure 3.9 DFD Level 2	69
Figure 3.10 DFD Level 2 adminController	70
Figure 3.11 DFD Level 2 profileController.....	71
Figure 3.12 DFD Level 3 Manage Product.....	71
Figure 3.13 DFD Level 3 create QR code.....	73
Figure 3.14 DFD Level 2 customers manage profile	74
Figure 3.15 DFD Level 3 Manage Category	75
Figure 3.16 DFD Level 3 Manage Supplier	76
Figure 3.20 Waterfall Model.....	76
Figure 3.21 Use Case Diagram	82
Figure 3.22 Item Activity Diagram.....	83
Figure 3.23 Transaction Sell Activity Diagram	84
Figure 3.24 Payment Activity Diagram	86
Figure 3.25 Report Activity Diagram	87
Figure 3.26 LogamMulia API Activity Diagram.....	88
Figure 3.27 Gold Price API Integration Flow	89
Figure 3.28 Customer Operation.....	90
Figure 3.29 Transaction Management.....	91
Figure 3.30 Payment Processing Flow	92
Figure 3.31 ERD	93
Figure 3.33 Gantt Chart.....	99
Figure 4.1 DFd level 3 store()	101
Figure 4.2 Screenshot of code store().....	101

Figure 4.3 Screenshot of code adds new user	102
Figure 4.4 Screenshot of verification email	102
Figure 4.5 DFD level 3 verify	102
Figure 4.6 Screenshot of code verification email to customers.....	103
Figure 4.6 DFD level 2 login_customer()	104
Figure 4.7 Screenshot of code customer authenticated	104
Figure 4.8 Screenshot of code login customer	104
Figure 4.9 Screenshot of code customer show	105
Figure 4.10 Screenshot of code customer show(2).	106
Figure 4.11 Screenshot of code admin show.....	107
Figure 4.11 Screenshot of code admin show(2).....	107
Figure 4.12 Screenshot of code login.....	108
Figure 4.13 DFD level 2 admin controller	109
Figure 4.14 DFD level 3 catalog	110
Figure 4.18 Screenshot of code catalog	110
Figure 4.19 Screenshot of code catalog add.....	111
Figure 4.20 Screenshot of code catalog delete.....	111
Figure 4.21 Screenshot of code category	112
Figure 4.22 Screenshot of code category	112
Figure 4.23 Screenshot of code category store	113
Figure 4.24 Screenshot of code category update.....	113
Figure 4.25 Screenshot of code category delete.....	114
Figure 4.27 Screenshot of code supplier	115
Figure 4.28 Screenshot of code supplier store	115
Figure 4.29 Screenshot of code supplier update	116
Figure 4.30 Screenshot of code supplier delete.....	116
Figure 4.31 DFD customer.....	117
Figure 4.32 Screenshot of code customer	118
Figure 4.33 Screenshot of code customer store.....	118
Figure 4.34 Screenshot of code customer update.....	119
Figure 4.35 Screenshot of code customer delete.....	120
Figure 4.36 DFD Item	121
Figure 4.37 Screenshot of code item.....	121
Figure 4.38 DFD item store	122
Figure 4.39 Screenshot of code item store	123
Figure 4.40 Screenshot of code item update	125
Figure 4.41 Screenshot of code item delete	126
Figure 4.42 Screenshot of table data base category	127

Figure 4.43 Screenshot of table data base company	127
Figure 4.44 Screenshot of table data base customer	128
Figure 4.45 Screenshot of table data base gold price	128
Figure 4.46 Screenshot of table data base product.....	129
Figure 4.47 Screenshot of table database supplier	130
Figure 4.48 Screenshot of table database transaction buy.....	130
Figure 4.49 Screenshot of table database transaction sell	131
Figure 4.50 Screenshot of table database user	132
Figure 4.51 Screenshot displaying the index	134
Figure 4.52 Screenshot displaying registration	135
Figure 4.53 Screenshot displaying the log in	135
Figure 4.54 Screenshot displaying the login admin	136
Figure 4.55 Screenshot displaying the dashboard for admin	137
Figure 4.56 Screenshot displaying the item list	138
Figure 4.57 Screenshot displaying the catalog list.....	138
Figure 4.82 Screenshot displaying the category list.....	139
Figure 4.58 Screenshot displaying the customer list.....	140
Figure 4.59 Screenshot displaying the supplier list.....	140
Figure 4.60 Screenshot displaying the code to instal composer.....	141
Figure 4.61 Screenshot displaying code run laravel	142
Figure 5.1 Screenshot displaying the dashboard.....	146
Figure 5.2 Screenshot displaying the dashboard grafic.....	147
Figure 5.3 Screenshot displaying the product listing	147
Figure 5.4 Screenshot displaying the product information	148
Figure 5.5 Screenshot displaying the catalog.....	148
Figure 5.6 Screenshot displaying example QR code.....	149
Figure 5.7 Screenshot displaying scan camera.....	149
Figure 5.8 Screenshot displaying the detail transaction	150
Table 5.1 Non functional specification	154

LIST OF TABLES

Table 1.1 Timeline	31
Table 2.1 Table User Characteristics.....	36
Table 2.2 Use Case Scenario Registration	41
Table 2.3 Use Case Scenario Login	42
Table 2.4 Use Case Scenario Manage Product.....	43
Table 2.5 Use Case Scenario Manage Catalog.....	43
Table 2.6 Use Case Scenario Manage Product Category.....	44
Table 2.7 Use Case Scenario Manage Customer	45
Table 2.8 Use Case Scenario Manage Supplier	46
Table 2.9 Use Case Scenario Manage Transaction Sell.....	47
Table 2.10 Use Case Scenario Manage Transaction Buy.....	48
Table 2.11 Use Case Scenario Manage Report Sell.....	48
Table 2.2 Use Case Scenario Manage Report Buy	49
Table 2.13 Data Dictionary	51
Table 2.13 Entity Tables User.....	51
Table 2.14 Entity Tables Jewelry.....	52
Table 2.15 Entity Tables Inventory.....	52
Table 2.16 Entity Tables Transaction.....	53
Table 2.16 Entity Tables Customer.....	53
Table 2.17 Comparison Table	63
Table 2.18 Quantitative Solution Selection.....	65
Table 3.19 Alternative Solution 1	65
Table 3.20 Alternative Solution 2	66
Table 3.21 Alternative Solution 3	67
Table 3.22 User Entity Tables.....	95
Table 3.23 Jewelry Entity Tables.....	96
Table 3.24 Inventory Entity Tables.....	97
Table 3.25 Transaction Entity Tables	97
Table 3.26 Customer Entity Tables.....	98
Table 3.27 Standard Use	100