

**DEVELOPING ORDERING MANAGEMENT SYSTEM IN AN INDONESIAN
MULTINATIONAL PACKAGING MACHINERY COMPANY**

By

Samantha Tiara Widjaja
22052010

MASTER'S DEGREE
in

MECHANICAL ENGINEERING – ENGINEERING MANAGEMENT
FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



SWISS GERMAN UNIVERSITY
The Prominence Tower
Jalan Jalur Sutera Barat No. 15, Alam Sutera
Tangerang, Banten 15143 - Indonesia

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Revision after the Thesis Defense on January 27th, 2022

STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

Samantha Tiara Widjaja

Student

Date

Approved by:

Dr. Tanika D Sofianti, S.T., M.T

Thesis Advisor

Date

Dr. Eng. Aditya Tirta Pratama, S.Si., M.T

Thesis Co-Advisor

Date

Dr. Maulahikmah Galinium, S.Kom., M.Sc.

Dean

Date

Samantha Tiara Widjaja

ABSTRACT

DEVELOPING ORDERING MANAGEMENT SYSTEM IN AN INDONESIAN MULTINATIONAL PACKAGING MACHINERY COMPANY

By

Samantha Tiara Widjaja
Dr. Tanika D Sofianti, S.T., M.T, Advisor
Dr. Eng. Aditya Tirta Pratama, S.Si, M.T, Co-Advisor

SWISS GERMAN UNIVERSITY

Ordering management system is the fundamental system that is required by companies that sell goods. A company that sells packaging machinery require the development of their information system and their ordering management system. In this research, the company is still using the traditional method for their overall business process. The company wants to improve their ordering management system to help them in future inventory control development. This research aims to develop a web-based application that can allow the company to have more structured data for future improvement in the company. The chosen methodology for this research is an agile methodology, which consists of six steps, requirements listing, planning, design, development, deployment, and assessment. The research found that in order to perform management improvement, the company has to own a detailed and structured database that keeps the track record of their business activities. The developed application provides the company with a system that allows the company to auto-generate several processes and keep the information in the database that can be retrieved whenever it is necessary.

Keywords: Agile Methodology, Information System Development, Ordering Management System, User Acceptance Test, Web-based Application.

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DEDICATION

I dedicate this works for my father and for the management system development of
the country that I love - Indonesia.

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Countless people have supported my journey in completing this work. Dr. Tanika D Sofianti and Dr. Eng. Aditya Tirta Pratama has provided invaluable feedback on my design and management analysis. Numerous advisory late nights and early in the morning have been done with them to reach maximum potential improvement of this project. The assistance of Mr Antoni Wijaya and Ms Leoni Andriyati was also greatly appreciated. Their support and encouragement make this project successful by providing the necessary data to be analysed.

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TABLE OF CONTENTS

	Page
STATEMENT BY THE AUTHOR	3
ABSTRACT	4
DEDICATION	6
ACKNOWLEDGEMENTS	7
TABLE OF CONTENTS	8
LIST OF FIGURES	11
LIST OF TABLES	14
CHAPTER 1 - INTRODUCTION	15
1.1 Background	15
1.2 Research Problem	20
1.3 Research Objective	20
1.4 Significance of Study	21
1.5 Research Questions	21
1.6 Scope & Limitation	21
CHAPTER 2 - LITERATURE REVIEW	22
2.1 Information System Development (ISD)	22
2.2 Requirements Engineering (RE)	22
2.3 Software Requirements Specification (SRS)	23
2.4 Software Development Life Cycle (SDLC)	23
2.4.1 Agile Methodology	24
2.4.2 Waterfall Methodology	25

2.5	Unified Modelling Language (UML).....	26
2.5.1	Use Case Diagram	28
2.5.2	Activity Diagram	30
2.5.3	Sequence Diagram.....	31
2.5.4	Communication Diagram.....	32
2.6	User Acceptance Test (UAT).....	33
2.7	Most Related Research	33
CHAPTER 3 – RESEARCH METHODS.....		38
CHAPTER 4 – RESULTS AND DISCUSSIONS.....		43
4.1	Company Profile	43
4.2	Problem Identification	45
4.3	Research Design.....	46
4.3.1	Current Business Process	46
4.3.2	Proposed Business Process Improvement.....	52
4.4	Ordering System Development.....	56
4.4.1	Requirements.....	56
4.4.2	Planning	59
4.4.3	Design	61
4.4.4	Development	73
4.4.5	Deployment	83
4.4.6	Assessment	84
CHAPTER 5 – CONCLUSIONS AND RECCOMENDATIONS.....		87
5.1	Conclusions.....	87
5.2	Recommendations	88
GLOSSARY		90
REFERENCES.....		92

APPENDICES	99
CURRICULUM VITAE.....	157

LIST OF FIGURES

Figures	Page
Figure 1.1 Global packaging market size projection for biodegradable plastic material (Catalyst, 2019).....	16
Figure 1.2 Global demand for packaging solutions forecast (Statista, 2020).....	17
Figure 1.3 Global demand for packaging solutions forecast 2017 – 2022 (Statista, 2020).....	18
Figure 1.4 Packaging national demand in the food & beverages (F&B) sector (GlobalData, 2020).....	18
Figure 2.1 Process of software development life cycle (Ergasheva and Kruglov, 2020).....	24
Figure 2.2 Process of agile software development approach (Salza, Musmarra and Ferrucci, 2019).	25
Figure 2.3 Process of waterfall software development approach (Jagli and Yeddu, 2017).....	26
Figure 2.4 Unified modelling language diagrams (Jacobson and Booch, 2021).	27
Figure 2.5 Use case diagram example.....	29
Figure 2.6 Sequence diagram example.....	31
Figure 2.7 Communication diagram example.....	32
Figure 3. 1 Proposed Research Methodology.	38
Figure 4.1 Business process flowchart.	43
Figure 4.2 Organisation structure of company subsidiary in Indonesia.....	44
Figure 4.3 Company locations across the world.	45
Figure 4.4 Fishbone diagram of root cause analysis.	46

Figure 4.5 Current business process diagram.	47
Figure 4. 6 Proposed business process improvement diagram.	53
Figure 4.7 Use case diagram of the proposed system.	62
Figure 4.8 Activity diagram of the customers and Indonesia branch.....	65
Figure 4.9 Sequence diagram of the proposed system.	67
Figure 4.10 Communication diagram of the proposed system.	68
Figure 4.11 Transaction database format between the company and customers.....	70
Figure 4.12 Transaction database format between the company and headquarter.	71
Figure 4.13 Design of database schema.	72
Figure 4.14 Mock-up of log in session.....	73
Figure 4.15 Mock-up of home page.	74
Figure 4.16 Mock-up of my account page.....	75
Figure 4.17 Mock-up of booking page.	75
Figure 4.18 Mock-up of quotation request form.....	76
Figure 4.19 Mock-up of my booking page.	77
Figure 4.20 Mock-up of my order page.....	77
Figure 4.21 Mock-up of completed quotation order.	78
Figure 4.22 Mock-up of delivery note.....	79
Figure 4.23 Mock-up of invoice order.	79
Figure 4.24 Mock-up of payment proof upload.	80
Figure 4.25 Mock-up of admin log in session.	81
Figure 4.26 Mock-up of customer orders page.	81
Figure 4.27 Mock-up of received quotation order from customer.....	82
Figure 4.28 Mock-up of transaction information with headquarter form.....	82
Figure 4.29 Mock-up of delivery information input.	83

Figure 4.30 Software Requirements Specification (SRS) document.	84
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LIST OF TABLES

Table	Page
Table 2.1 Activity diagram symbols and definitions (Sabharwal, Kaur and Sibal, 2017).....	28
Table 2.2 Activity diagram symbols and definitions (Arora and Bhatia, 2018).....	30
Table 2.3 Most related research of software development methodologies.	36
Table 2.4 Most related research of software development methodologies (continued).	37
Table 4.1 Project Timeline.....	60
Table 4.2 User acceptance test (UAT) checklist.	86