# MY GROCERY: ONLINE GROCERY SYSTEM

In Partial Fulfillment

Of the Requirements for the Degree of

Submitted by:

Bachelor of Science in Computer Science

De Guzman, Mark D.
Fajardo, Jouie C.
Perez, James F.
Villagonza, Shunn Gerold

Submitted to:

Joseph Bernard Reyes

Computer Science Department Head

# **CERTIFICATION**

The dissertation entitled "My Grocery: Online Grocery System" prepared and submitted by **Joseph Bernard B. Reyes** in partial fulfillment of the requirements for the degree **Bachelor of Science in Computer Science**, has been examined and recommended for Oral Examination.

# **Thesis Committee**

	JOHN ALDRICH BERNARDO  Member SERNARD REYES Member
APPRO	OVAL SHEET
Approved by the <b>Oral Examination</b>	on Committee on May 2022 with the Grade of
 ЈОЅЕРН ВЕ	CRNARD B. REYES
	Chair
SUSANA TOLENTINO	JOHN ALDRICH BERNARDO
Member	Member
Accepted in partial fulfillment of the in Computer Science	ne requirements for the degree Bachelor of Science

JOSEPH BERNARD B. REYES

CS Department Head

# ACKNOWLEDGEMENT

Before anything else, we would like to give thanks to our dearest Jesus, our God, for guiding us every day with his unfailing love and providing for our needs. To give us an opportunity to show our knowledge, strength and positiveness to make this thesis possible.

To our thesis teacher Sir Jober Reyes for sharing the knowledge to us and advising us on how to make this study. To Ma'am Susan and Sir Aldrich, who are always there to guide us through the thesis and the proposed system. We are so happy to have you as our professors. To our families and friends for giving us their love, guidance and financial supports.

**CERTIFICATE OF ORIGINALITY** 

This is to certify that the research work presented in this dissertation entitled "MY

GROCERY: ONLINE GROCERY SYSTEM" for the College degree from the College of

Mary Immaculate embodies the result of the original and scholarly work carried out by the

undersigned. This dissertation does not contain words or ideas taken from published sources

or written works by other persons which have been accepted as basis for the award of any

degree from other higher education institutions, except where proper referencing and

acknowledgement were made.

DE GUZMAN, MARK ANGELO D.

FAJARDO JOUIE C.

PEREZ, JAMES F.

VILLAGONZA, SHUNN GEROLD

Researchers

Date: May 2022

Noted:

JOSEPH BERNARD B. REYES

Subject Teacher/Adviser

Date: May 2022

iν

### **ABSTRACT**

Title: MY GROCERY: ONLINE GROCERY SYSTEM

Researcher: **De Guzman, Mark** 

Fajardo, Jouie C.

Perez, James F.

Villagonza, Shunn Gerold

Degree: College

**Institution:** College of Mary Immaculate

Year: 2022

Adviser: Mr. Joseph Bernard B. Reyes

Online Grocery or E-Grocery is a business where the main purpose of the selling is groceries online. Online Grocery is also online shopping, the difference is in online shopping a lot of products are selling while in the online grocery it will only sell groceries. This will be convenient for everyone because it will be delivered directly to you by the riders.

This study aims to create a system that is convenient for everyone. Nowadays, many online shopping website/applications are popular to people. The target market for the system is mostly the people who go to the market every day. This system will help the consumers or users to easily buy on the physical and online store with great assurance of safety while having an easier and hassle-free of buying goods online. The study will be conducted using the Waterfall Model which appears in the conceptual framework. The waterfall model divides project activity into linearly continuous phases, each phase that depends on the results of the previous phase and accommodates task specializations. In this study it was found out that the system is better in terms of speed of transaction, reliability and convenience. While in the security, there is a doubt that security is well done because it can cause bad impact to the customers. It identifies that security and convenience are needed to improve for future

purposes. So, the researcher came up with a way to solve the problem by making a two-way factory authentication. It will also have a monthly debugging to determine if there's an error in the system. This system will save people so much time, money, and the effort of searching for the things you need to buy. Not only that, but it also lets you multitask on different things both at work and at home.

Online Grocery are similar to Online Shopping, so the features are also the same, but in the proposed system that the researcher made is there are some features that online shopping does not have. The major features of the proposed system are:

- Sign-in
- Signup
- Email validation
- two way-factor verification
- Add to cart
- Edit profile
- Auto generated postal code.

# TABLE OF CONTENTS

TITI	LE PAGE	i
CER	RTIFICATION AND APPROVAL SHEET	ii
ACK	KNOWLEDGEMENT	iii
CER	RTIFICATE OF ORIGINALITY	iv
ABS	STRACT	v
TAB	BLE OF CONTENTS	vii
LIST	T OF TABLES	ix
LIST	T OF FIGURES	Х
CHA	APTER	
I.	THE PROBLEM AND A REVIEW OF RELATED LITERATURE	1 - 20
	Introduction	1
	Review of Related Literature	3
	Review of Related Software	5
	Review of Related Models	8
	Synthesis	12
	Conceptual Framework	13
	Statement of the Problem	16
	Hypothesis	17
	Significance of the Study	18
	Scope and Limitations	19
	Definition of Terms.	19
II.	METHODS	21 - 39
	Procedures	21
	Research Design	25
	Data Gathering Instruments.	26
	Respondents of the Study	28
	Statistical Treatment.	29
III.	RESULT AND DISCUSSIONS	30 - 51
	Planning	30
	Analysis	31
	Design	39

	Development	47
	Testing	48
IV. SUM	MARY, CONCLUSIONS, AND RECOMMENDATIONS	52 - 55
	Summary of Findings	52
	Conclusions.	54
	Recommendations	55
BIBLIOGR.	АРНҮ	56
APPENDIC	ES	57
	Questionnaire	57
	Google Form Questionnaire	58
	User-Manual	62
	Curriculum Vitae	77

# LIST OF TABLES

Table 1 Initial Costing for the Project	34
Table 2 Operating Cost of the Existing System	35
Table 3 Operating Cost of the Proposed System	35
Table 4 Data Table of the Database	40
Table 5 Data Dictionary	43
Table 6 Input-Process-Output Chart	45
Table 7 Evaluation of the current enrollment system and the propo	osed online enrollmen
system	49

# LIST OF FIGURES

Figure 1.1 Structured Development Life Cycle Model	8
Figure 1.2 Waterfall Model	9
Figure 1.3 Agile Model	10
Figure 1.4 Conceptual Framework	16
Figure 1.5 Research Design Diagram	17
Figure 1.6 Diagram 0 and Exploded Diagram	42
Figure 1.7 Entity Relationship Diagram	43
Figure 1.8 Operational Data Model	46