

**CONVI: MOBILE ORDERING IN CONVENIENCE STORE**

**A Capstone Project**  
Presented to the Faculty of the  
**Computer Studies Department**  
College of Science  
Technological University of the Philippines  
Ayala Boulevard, Manila

**By**

**JOHN RENZ D. RAMOS**  
**RAY MOND B. KISKIS**  
**RYAN CHRIS O. TUPIL**

**In Partial Fulfillment of the**  
**Requirements for the Degree**  
**Bachelor of Science in Information Technology**

**June 2023**

## TABLE OF CONTENTS

	<b>Page</b>
Title Page	i
Approval Sheet	ii
Acknowledgement	iii
Abstract	iv
Table of Contents	v
List of Tables	viii
List of Figures	ix
List of Appendices	xi
 <b>Chapter 1    THE PROBLEM AND ITS SETTING</b>	 <b>1</b>
Background of the Study	1
Objectives of the Study	4
Scope and Limitations of the Study	5
Significance of the Study	7
 <b>Chapter 2    CONCEPTUAL FRAMEWORK</b>	 <b>10</b>
Review of Related Literature	10
Conceptual Framework of the Study	24
Operational Definition of Terms	26
 <b>Chapter 3    METHODOLOGY</b>	 <b>27</b>
Project Design	27
Project Development	36

CONVI

	Operation and Testing Procedure	37
	Evaluation Procedure	40
<b>Chapter 4</b>	<b>RESULTS AND DISCUSSION</b>	<b>43</b>
	Project Description	43
	Project Structure	43
	Project Test Results	57
	Project Capabilities and Limitations	59
	Project Evaluation	61
<b>Chapter 5</b>	<b>SUMMARY OF FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS</b>	<b>65</b>
	Summary of Findings	65
	Conclusions	66
	Recommendations	67
	<b>References</b>	<b>68</b>
	<b>Researchers Profile</b>	<b>82</b>

**LIST OF TABLES**

<b>Table</b>		<b>Page</b>
1	Customer's Testing Procedure	38
2	Hardware Requirements	39
3	Software Requirements	39
4	Numerical and Descriptive Rating for the Evaluation Scale	42
5	Range of Weighted Mean Values and its Interpretation	42
6	Functionality Test Execution Summary	57
7	Reliability Test Execution Summary	58
8	Respondents' Weighted Mean Results	61
9	Overall Weighted Mean Results	64

**LIST OF FIGURES**

<b>Figure</b>		<b>Page</b>
1	Conceptual Model of the Study	24
2	Block Diagram	27
3	Project Flowchart (User)	28
4	Use Case Diagram of the System	29
5	Service Provider Side ERD	30
6	Vendor Side ERD	31
7	Customer Side ERD	32
8	Data Dictionary	33
9	System Architecture	34
10	Hierarchical Input Process Output of Mobile Ordering in Convi System	35
11	Rapid Application Development (RAD)	37
12	Log-in Screen	43
13	Announcement Tab	45
14	Store Locator	46
15	Inventory and Add-to-cart	47
16	Purchase Tab	48
17	Order Status Tab	49
18	Vendor Dashboard	50
19	Announcement Tab	50
20	Orders Tab	51

## CONVI

21	Product List	51
22	Expired Products Tab	52
23	Supplier Tab	52
24	Product Category Tab	53
25	Transaction Data	54
26	Sales Report	54
27	Inventory Report	55
28	Project Overview	55
29	Realtime Database	56
30	Storage	56

**LIST OF APPENDICES**

<b>Appendix</b>		<b>Page</b>
A	Communication Letter	71
B	Evaluation Sheet	72
C	User Manual	74
D	Profile of the Respondents	76
E	Summary of Respondents' Evaluation	77
F	Thesis Grammarian Certificate	79
G	Turnitin Certificate	80