Polytechnic University of the Philippines

**College of Computer and Information Sciences**

Sta.Mesa, Manila

**Web-based Furniture Shop Management System**

In Partial Fulfillment

Of the Requirements for the Subject

Capstone Project

By

Amarilla, Cyrene Jane B.

Coronado, Aira Marie B.

Efa, Sean Lester A.

Estores, Elissa Joy P.

Lozano, Mariano III S.

Publico, Mark Joseph B.

**TABLE OF CONTENTS**

**CHAPTER 1: PROJECT DEFINITION**

1.1 Introduction 1

1.2 Business Case

1.2.1 Background of the Organization 1

1.2.2 Project Overview 2

1.2.3 Project Constraint 3

1.2.4 Project Assumptions

1.3. Scope and Limitation

1.4. Methods Used in the Study 4

**CHAPTER 2: FUNCTIONAL SPECIFICATION REPORT**

2.1 Data Requirements

2.1.1 Forms 6

2.1.1.1 List of Forms

2.1.1.2 Sample of Forms 7

2.1.2 Reports 10

2.1.2.1 List of Reports

2.1.2.2 Sample Reports

2.2 Policies and Procedures

2.2.1 Procedures 11

2.2.1.1 Context Diagram 11

2.2.1.2 Level 1 DFD 12

2.2.2 Policies 13

2.2.2.1 Business Requirements 13

2.2.2.2 Business Policies

2.3 Problem Analysis 14

2.3.1 Fishbone 14

2.3.2 Problems and Requirements 15

2.3.2 Conclusion 15

2.3.3 Recommendation 16

**CHAPTER 3: PROPOSED SYSTEM DEFINITION**  
3.1 Requirements-Features Matrix 17

3.2 Functional Specification

3.2.1 System Boundaries 18

3.2.2 System Use Case Diagram 18

3.2.3 Detailed per Use Case 19

3.3.4 Use Case Description 24

3.3 Technical Specification

3.3.1. Class Diagram

3.3.1.1 List of Classes 35

3.3.1.2 Class Diagrams (per Use Case by System) 39

3.3.2. Activity Diagram 44

3.3.3. Database Design

3.3.2.1 Database Schema 49

3.3.2.2 Data Dictionary (Landscape orientation) 50

3.4 Architectural Design

3.4.1 Information system architecture 90

3.4.2 Web Architecture 91

3.4.3 Client/Server Architecture 92

3.4.4 Network Architecture 93

**CHAPTER 4: IMPLEMENTATION PLAN**

4.1 Testing Plan 94

4.2. Requirements Plan 94

4.2.1 Hardware Requirements 95

4.2.1.1 Server

4.2.1.2 Workstation

4.2.2 Software Requirements 95

4.2.2.1 Operating Systems

4.2.2.2 DBMS

4.2.2.3 Pre-requisite Software (if any)

4.2.3 Peopleware (End Users, Systems Administration, Etc) 95

4.3 Quality Plan 96

4.4 Security Plan 96

4.5 System Maintenance and Support Plan

4.5.1 Preventive Measure Plan 96

4.5.2 Corrective Measure Plan 97

4.5.3. Backup and Recovery Plan 97

**CHAPTER 5: RECOMMENDATION** 98

**APPENDICES** 99

**APPROVAL SHEET**

Approved by the committee on Oral Examination with the grade of

\_\_\_\_\_\_\_\_\_\_\_\_

Examiners:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Reyes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Libunao

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Barretto

Accepted in Partial requirements for

the degree of Bachelor of Science in Information Technology.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gisela May A. Albano, MIT

Dean, CCIS

**ABSTRACT**

The Furniture Shop offers high quality furniture that goes from simple and classic to one very luxurious design. They offer furniture generously made of narra and of high quality fabrics imported from other countries. The shop creates furniture for display and for walk-in customers to see and purchase. They accept orders with designs picked from their brochures or customized designs specified or brought by the customer.

The Furniture Shop Management System will help them manage order and the information that is going in and out of the shop, at the same time will help them promote their products and reach customers on a farther vicinity. The project will have thress subsystems namely; Order Management, Billing and Collections and Production Tracking System.