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Web-Based Furniture Shop Management System

A System Study Presented to the Faculty of the College of Computer and Information Sciences Polytechnic University of the Philippines

In Partial Fulfillment of the Requirements for the Capstone Project

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RECOMMENDATION SHEET

	The	system	entitled	Furniture	Shop	Management	System	has	beer
exami	ned a	ind is rec	ommend	ed for acce	eptance	and approval	to the co	mmitt	ee fo
oral ex	kamin	ation.							

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TABLE OF CONTENTS

Abstract	Į
CHAPTER 1: PROJECT DEFINITION	
1.1 Introduction	1
1.2 Business Case	2
1.2.1 Background of the Organization	2
1.2.2 Project Overview	3
1.2.3 Project Constraint	3
1.2.4 Project Assumptions	4
1.3. Scope and Limitation	4
1.4. Methods Used in the Study	5
CHAPTER 2: FUNCTIONAL SPECIFICATION REPORT	
2.1 Data Requirements	7
2.1.1 Forms	7
2.1.1.1 List of Forms	7
2.1.1.2 Sample of Forms	8
2.1.2 Reports	11
2.1.2.1 List of Reports	11
2.1.2.2 Sample Reports	12
2.2 Policies and Procedures	
2.2.1 Procedures	13
2.2.1.1 Context Diagram	13
2.2.1.2 Level 1 DFD	14
2.2.2 Policies	
2.2.2.1 Business Requirements	15
2.2.2.2 Business Policies	16

2.3 Prok	olem Analysis	17
2.3.1	Fishbone	17
2.3.2	Problems and Requirements	18
2.3.3	Conclusion	19
2.3.4	Recommendation	19
CHAPTER 3	: PROPOSED SYSTEM DEFINITION	
3.1 Requi	rements-Features Matrix	21
3.2 Funct	ional Specification	23
3.2.1	System Boundaries	23
3.2.2	System Use Case Diagram	23
3.2.3	Detailed Use Case Diagram	24
3.3.4	Use Case Description	29
3.3 Tech	nical Specification	
3.3.1.	Class Diagram	43
	3.3.1.1 Data Dictionary of Classes	43
	3.3.1.2 Class Diagrams (per Use Case by System)	48
3.3.2.	Activity Diagram	54
3.3.3.	Database Design	
	3.3.3.1 Database Schema	59
	3.3.3.2 Data Dictionary (Landscape orientation)	60
3.4 Archi	tectural Design	
3.4.1	Information system architecture	121
	3.4.2 Web Architecture	122
	3.4.3 Client-Server Architecture	123
	3.4.4 Network Architecture	124
CHAPTER 4	: IMPLEMENTATION PLAN	
4.1 Te	esting Plan	125
	4.1.1 Test Design Process	125
	4.1.2 Test Execution Process	125

4.2. Requirements Plan	126
4.2.1 Hardware Requirements	126
4.2.1.1 Server	
4.2.1.2 Workstation	
4.2.2 Software Requirements	126
4.2.2.1 Operating Systems	
4.2.2.2 DBMS	
4.2.2.3 Pre-requisite Software	
4.2.3 Peopleware (End Users, Systems Administration, Etc)	127
4.3 Quality Plan	127
4.4 Security Plan	127
4.5 System Maintenance and Support Plan	128
4.5.1 Preventive Measure Plan	
4.5.2 Corrective Measure Plan	
4.5.3. Backup and Recovery Plan	129
CHAPTER 5: RECOMMENDATION	130

APPENDICES

Data Gathering Instruments

Client Forms & Reports

List of Tables

List of Figures

Resume

ABSTRACT

The Furniture Shop Management System is a web-based application created based on a furniture shop that offers high quality furniture that goes from simple and classic to one very luxurious design. The shop offers 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 helps the admin manage orders, monitor materials inventory and track furniture production. At the same time it will help them promote their products and reach customers on a farther vicinity. In this light, the furniture shop's customers can create an account for website access so they can easily order furniture, track the production progress of their order as well as the delivery. The project has three (3) subsystems namely; Order Management, Billing and Collections and Production Tracking System.



CHAPTER 1 PROJECT DEFINITION

1.1 INTRODUCTION

The Furniture Shop now stands on it's 36th year with two stores found in Bacoor and Silang, Cavite. The shop offers high quality furniture that goes from simple and classic to one very luxurious design.

The business is owned and managed by a family, but mostly by the parents who still list and writes the orders made per day and the receipts and bill per transaction. It's difficult processing the transaction due to unorganized stack of charts and voluminous brochures. The shop also uses the forms improperly which leads to difficult retrieval of order records.

The proponents aim to provide a Web-Based Management system entitled, Furniture Shop Management System. This system will help the family in making faster transactions.

It will help them in storing and retrieving information, enhancing the security of their records. The customers will also find it more convenient to choose a furniture by sending their desired design with the customization feature. With this system, the furniture shop that is running for 36 years now, will keep up with the rapidly changing society and developing technology.

1.2 BUSINESS CASE

1.2.1 BACKGROUND OF THE ORGANIZATION

The Furniture Shop makes high quality furniture made of narra wood with designs that goes from simple and classic to a very luxurious one. 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 36 year old running business now has two stores; both stores are managed by the family members themselves. Josephine Bonayon Baraquiel, one of the owners, proposed the idea of making furniture shop to her husband because she herself is a daughter of a furniture maker. Josephine used to help her parents way back when she was in their care, her parents influenced her in every way and together with her husband they build the Furniture shop together.

This business is the reason they got to where they are now, from a small shop at vicinity in Albay, Bicol to owning two stores located nearby the capital city of the country. The Furniture Shop is also the reason how they manage to send their six children to decent universities and now their children are working at great companies and is helping them from time to time.

The Furniture shop's number one priority in furniture making is ensuring that the furniture they make is of high quality and can be considered world class. They also wanted to join the bandwagon of online shops in the country to be part of this rapidly changing society.

1.2.2 PROJECT OVERVIEW

The project aims to help the said Furniture Shop in making their transactions faster, easier and help them keep pace with the rapidly changing society by providing them a web-based system. This web-based system will have a website and an admin interface. The admin interface is where the manager can update their featured furniture, add and remove furniture and manage orders made personally or through the website. The website will display all furniture the shop can offer. The customer can easily order furniture just by browsing through the website and the manager will find it easy to manage orders and produce the customers' bills and receipts.

It will also help the customers choose design on their perspective by sending their own design in our customization feature. With the system the manager can easily store and retrieve information, thus minimizing the time for looking upon the client's record every time they deliver.

1.2.3 PROJECT CONSTRAINTS

The constraints considered by the proponents are the following:

- Time frame given for the project is 10 months, limited amount of time to build the system.
- The scope of the project covers maintainance and transaction processes of the business.
- The proponents are currently students with limited source of income. It is certain that they cannot invest financially.

1.2.4 PROJECT ASSUMPTIONS

The Project will be finished on time.

The fully-functional system project will be finished on time with no errors and bugs.

The project team will able to acquire all the information and documents needed.

The client will be able to provide all necessary documents and information for the Project Team to comply with the requirements of the project and be able to provide them a running system that functions accurately.

• User Acceptance

The client will be satisfied with the final outcome of the project. The project will lighten the works of the users, their transaction will be faster and provide a better service to their customers.

1.3. SCOPE AND LIMITATION

The business processes of the furniture shop that will be featured in the system includes managing of orders, creation of bills, issuance of receipts, collecting payment, tracking of production and monitoring materials.

The project also includes point of sales and delivery tracking. The system will have a customization feature which allows the customers to send their own design of the furniture. Maintenance of the fields needed for the transactions will be covered. The project also produces queries and reports.

The system will not cover the purchasing of materials in monitoring the inventory of raw materials.

1.4. METHODS USED IN THE STUDY

1.4.1 DATA GATHERING TECHNIQUES

Observation

The proponents observed the business environment and how they do things thus making it easier for us to know their problems.

Personal Interview

The proponents conducted an interview to gather data needed for this project. This serves as the way to obtain useful information to the people who know the business very well.

Document Analysis

The forms we gathered will be analyzed to understand the business and know what data are needed for the transactions.

1.4.2 Software Process Model

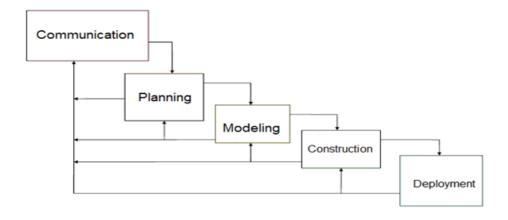


Figure 1. Waterfall Model with Feedback

The proponents used the Waterfall Model with Feedback as a model used in visualizing the step by step process the group is going to take to finish the project on the scheduled time. The Waterfall Model with Feedback is a simple and easy to use model because of it's rigidity. Each phases has a specific deliverable and a review process therefore after making progress on the project we can go back to the client and ask if what we produce is accurate according to their business rules and processes.

CHAPTER 2 FUNCTIONAL SPECIFICATION REPORT

2.1 DATA REQUIREMENTS

2.1.1 FORMS

2.1.1.1 LIST OF FORMS

Form #	Form Name	Description	User
F1	Sales	This contains the customer	Manager,
	Invoice	information, order information, order	Customer
		specification and payment	
		information. This serves as the	
		contract and the bill.	
F2	Job Order	This contains the details of the	Manager,
		ordered furniture the manufacturer	Manufacturer
		should follow.	
F3	Delivery	It contains delivery information, order	Manager,
	Receipt	information and payment information.	Customer,
		This is given to the delivery man and	Delivery Man,
		later on passed to the customer as	
		final receipt.	
F4	Official	This contains the payment details of	Manager,
	Receipt	the customer. This is given to the	Customer
		customer every payment made.	

Table 1. List of Forms

2.1.1.2 SAMPLE OF FORMS

SALES INVOICE

Sold to: Rosario Hernandez **DATE:** December 12, 2016

Address: Bacoor, Cavite CONTACT NO.: 09163737052

QUANTITY	PARTICULAR ITEM	AMOUNT
1 SALA SET	MANILENIA	TOTAL AMOUNT
	FABRIC GOLD RANI	170,000
	COLOR 19C	- 100,100
	1 PC. LOVE SEAT	BALANCE
	1 PC. CENTER TABLE	70,000
	2 PCS SIDE TABLE	
	1 SET DINING SET	

PREPARED BY: JOSEPHINE BARAQUEL

SIGNATURE OVER PRINTED NAME

Figure 2. Sample Sales Invoice Format

JOB ORDER

SI #123 ROSARIO HERNANDEZ

1 SET SALA SET – MANILENIA

FABIC: GOLD RANI

COLOR: 19C

1 PC. LOVE SEAT

1 PC CENTER TABLE 22 X 42'

2 PCS SIDE TABLE 18 X 22"

1 SET DINING SET W/8 CHAIRS

Figure 3. Sample Job Order Format

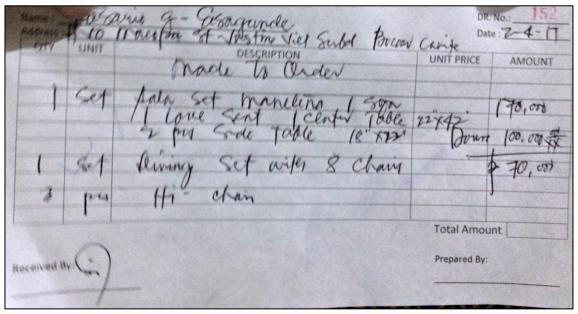


Figure 4. Sample Delivery Receipt

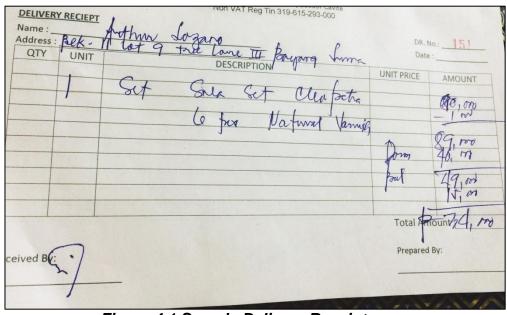


Figure 4.1 Sample Delivery Receipt

Payment of the f	The second second second			
PARTICULARS	Amount			
CHEROLI				
	71000		No	0001
ATTENDED TO THE OWNER OF THE PARTY OF THE PA				
		OFFICIAL RECEIPT		
			Date	
Amount Due	74/04	RECEIVED FROM		
.ess: SC/PWD Discount		Vicinity Constitution (Constitution Constitution Constitu		
TOTAL AMOUNT DUE		Address		
Payment in the	form of:	TINengaged in the Bu	siness Style of	
CASH		the sum of		
CHECK No.	79717		(Pho Ta A)	of The
Bank	13 - 0			
TOTAL AMOUNT DUE	on 1/12 19	In full() partial () payment of		
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Figure 5. Sample Official Receipt

2.1.2 REPORTS

2.1.2.1 LIST OF REPORTS

Report #	Report Name	Description	Frequency
R1	Sales Report	Contains the daily record of the	Daily, Monthly,
		furniture sold to customers.	Annually

Table 2 List of Reports

2.1.2.2 SAMPLE REPORTS

Furniture Name	Date Sold	Quantity	Unit Cost	Total
Rocking Chair Regular	12/8/2016	2	15,000	30000.00
Manillenia Divan	12/25/2016	1	5,000	5000.00
Manillenia (Sala Set)	12/25/2016	1	100,000	100000.00
Cleopatra (Sala Set)	12/31/2016	1	150,000	150000.00
			Grand Total:	285,000

Figure 6. Sample Sales Report Format

2.2 POLICIES AND PROCEDURES

2.2.1 PROCEDURES

2.2.1.1 CONTEXT DIAGRAM

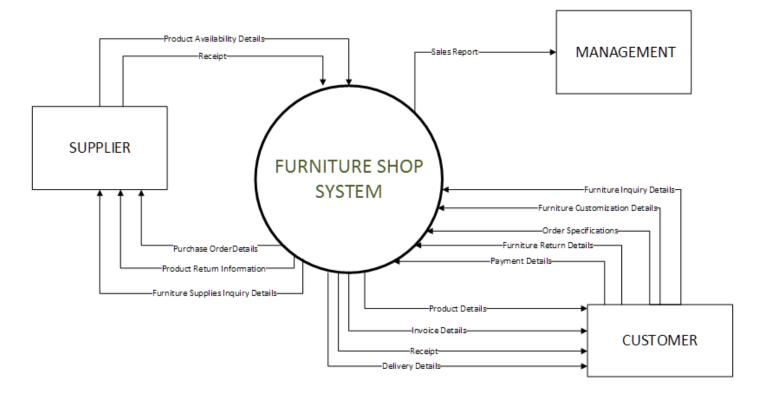


Figure 7. Context Diagram

2.2.1.2 LEVEL 1 DFD

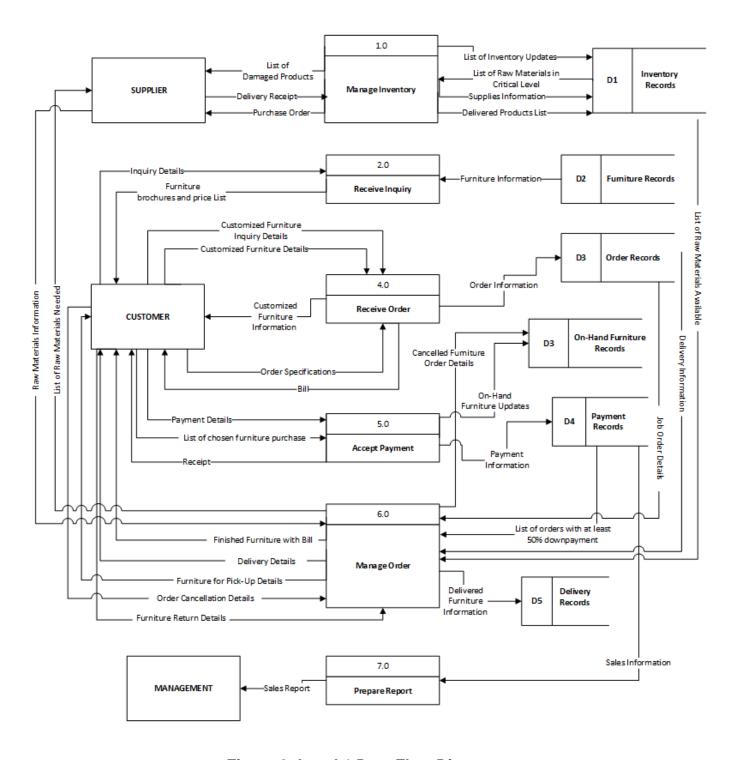


Figure 8. Level 1 Data Flow Diagram

2.2.2 POLICIES

BR	BUSINESS REQUIREMENT
NO.	
BR001	The production of furniture will begin once the customer paid a down payment of at
	least 50% of the total amount of the ordered furniture.
BR002	A minimum storage fee of PHP 500 pesos will be added to the total balance if
	furniture is not claimed or is fully paid on or before the day the contract will end.
BR003	A detailed description and specification is needed for customized furniture.
BR004	Damage on furniture caused by natural disaster and by improper use or
	maintenance is not covered on the warranty.
BR006	Official receipt must be presented to acquire warranty.
BR007	A minimum fee of PHP 500 is needed to cancel an order that is already undergoing
	production.

2.2.2.1 BUSINESS REQUIREMENTS

Table 3 Business Requirement

BP	BUSINESS POLICIES
NO.	
BP01	The customer must pay at least 50% of the total price of the furniture ordered for
	the production of furniture to begin.
BP02	On-hand furniture must be fully paid upon acquisition.
BP03	Furniture must be claimed, paid or delivered on or before the end of the contract.
BP04	A customer must pay a cancellation fee if he/she cancels his order that is already
	undergoing production. Cancellation fee varies.
BP05	If ordered furniture is not claimed and fully paid within 1 month (30 days) and 1
	week (7 days) after the contract's expiration the management has the right to resell
	the furniture.
BP06	The price of a customized furniture will be decided by the management
BP07	The furniture will be replaced or repaired if found broken upon delivery.
BP08	Six months warranty is given to all furniture.

2.2.2.2 BUSINESS POLICIES

Table 4 Business Policies

2.3 PROBLEM ANALYSIS

2.3.1 FISHBONE

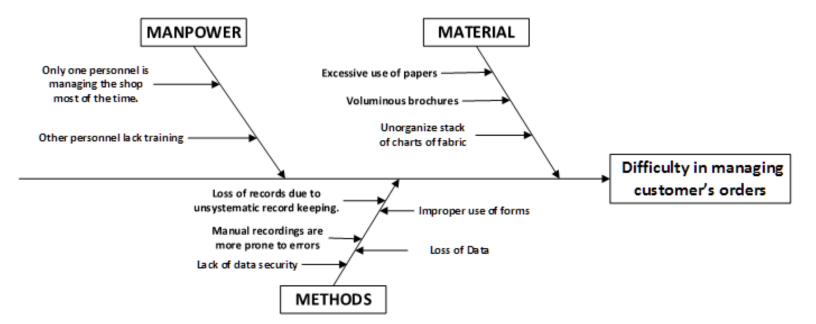


Figure 9. Fishbone Diagram of the Furniture Shop

2.3.2 PROBLEMS AND REQUIREMENTS

Ref. Page	No.	Problem	Requirements			
16	1	Only one personnel is managing the shop most of the time.	Capability to efficiently manage orders with the resources available.			
16	2	Loss of records due to unsystematic record keeping.	Secure records in a database to manage records systematically.			
16	3	Lack of data security.	Ability to keep the gathered data secure and control the user access.			
16	4	Excessive use of papers.	Capability to minimize,if not eliminate the use of paper.			
16	5	Voluminous brochures.	Provides categorized products for display.			
16	6	Improper use of forms.	Capability to identify the form/s to be used in the given transactions.			
16	7	Loss of data.	Ability to keep data for every transactions made.			

Table 5 Problems and Requirements

2.3.3 CONCLUSIONS

The Furniture Shop offers high quality furniture made of narra wood. They aim to provide high quality furniture that goes from simple and classic to one very luxurious design, not just to citizens of Cavite but as much as possible, to the whole country.

As of now, the said Furniture shop uses the manual process of recording data, the manager will write the customer information, order information, billing information, and they allow the client to customize their own designs of furniture. A lot of data is being stored so the shop uses excessive papers, papers that are being stored on the file cabinets around their small office. They also use their forms improperly providing confusing records that leads to difficulty in managing customer's orders.

2.3.3 RECOMMENDATIONS

In order to help the business resolve the problems stated above, the proponents recommend the Furniture Shop to have a Web-Based system that 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 Furniture Shop Management System will have the following sub-systems:

The Furniture Ordering Management System, this sub-system will help the manager in managing the orders. The customer will be able to order furniture easily. Additionally, this sub-system also has a customization feature where the customer can customize furniture to their own liking. In this sub-system, all on-

hand furniture and furniture available for pre-order will be displayed per category for the customer to easily choose. Once, the customer is done ordering he can just check-out and proceed to billing. The customer information will be needed for verification.

The Billing and Collection System, this sub-system will compute the total amount of furniture in the customer's orders. After checking-out the customer will receive an email from the furniture shop containing his bill and where and how the customer can pay. If the ordered furniture is on-hand and the customer has paid for it the furniture will be delivered. If it's pre-order, the production of the ordered furniture will begin once the customer has paid 50% of the total amount. However, the order will be considered null and void if the customer fails to pay within seven days. This sub-system will help in producing receipt easily, lessening the time needed for writing.

The Production Tracking System, this sub-system will track the production of an order. After the transaction is settled, the manager will issue job order form for the manufacturers, this job order form contains the specifications and descriptions of the furniture to be made. This sub-system will enable the manager to view and update production progress information, which includes status of the production, the handler who will make the furniture, and the production progress percentage of the furniture.

CHAPTER 3 PROPOSED SYSTEM DEFINITION

3.1 REQUIREMENTS-FEATURES MATRIX

	REQ1.	REQ2.	REQ3.	REQ4.	REQ5.	REQ6.	REQ7.
Features/ Requirements	Capability to efficiently manage orders with the resource available.	Secure records in a database to manage systematically	Ability to keep the gathered data and control the user access.	Capability to minimize, if not eliminate the use of paper.	Provides categorize d products for display.	Capability to identify the form/s to be used in the given transactions	Ability to keep data for every transactions made.
FEAT1. Web-based ordering transaction.	√	√	√	√	√	√	√
FEAT2. Tracking of production.	✓	✓	√	√		✓	√
FEAT3. Tracking of delivery.	✓	✓	✓	✓		✓	√
FEAT4. Inventory of Raw Materials.	✓	✓	✓	√			✓

FEAT5. Customization of designs.	1	✓		√	√	√	√
FEAT6.							
Ability to produce		✓	✓	✓			√
reports.							, ,

Table 6. Feature-Requirements Matrix

3.2 FUNCTIONAL SPECIFICATION

3.2.1 SYSTEM BOUNDARIES

3.2.2 SYSTEM USE CASE DIAGRAM

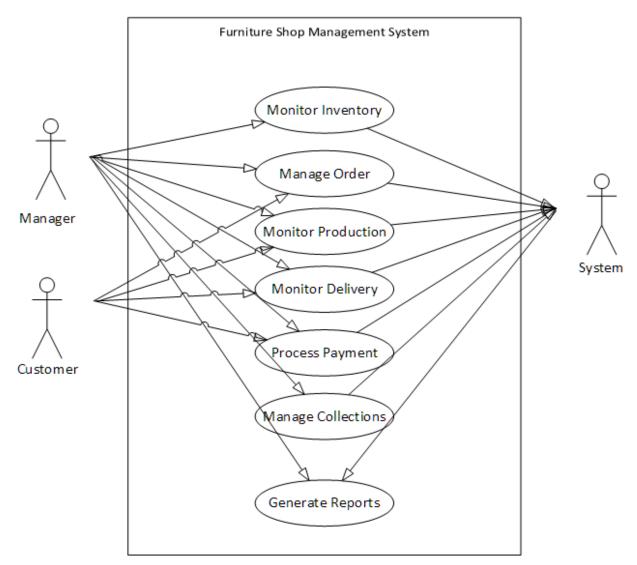
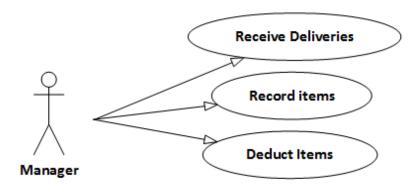
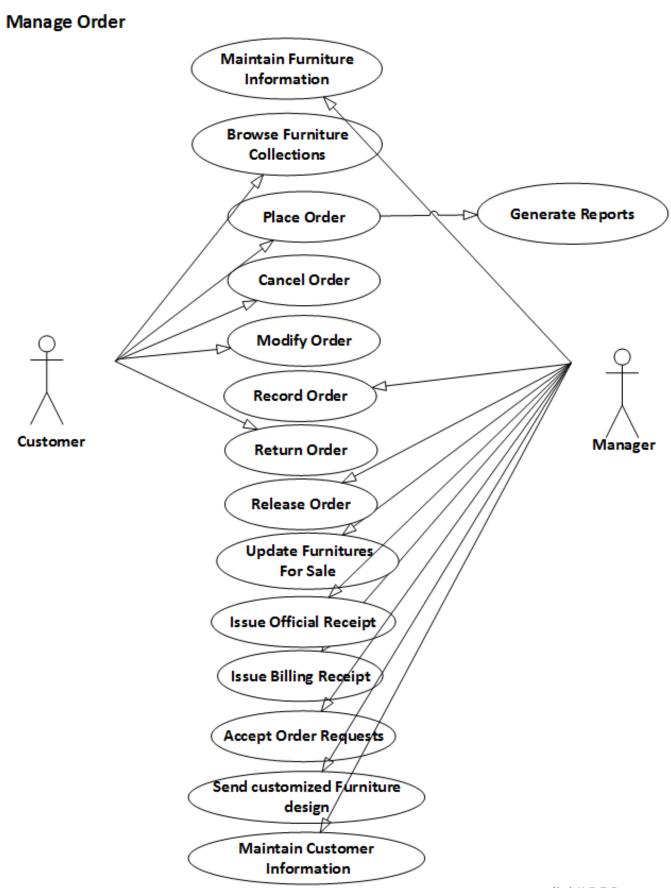


Figure 10. Top level Use case

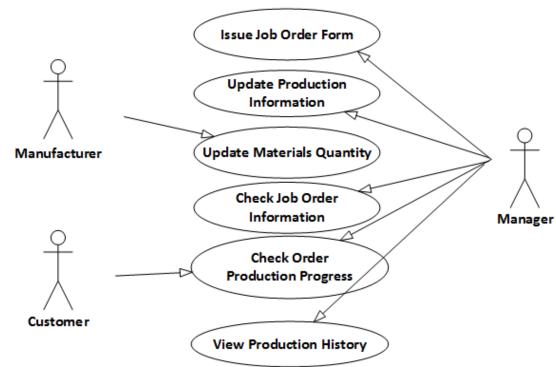
3.2.3 DETAILED PER USE CASE

Monitor Inventory

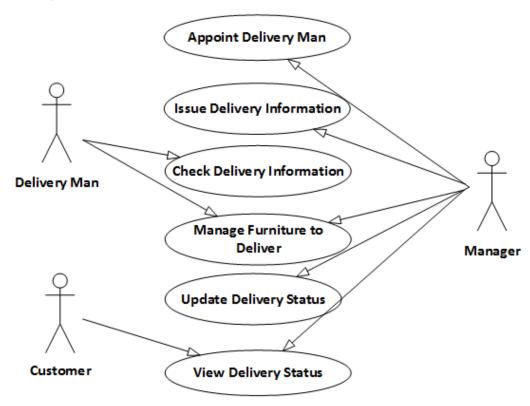




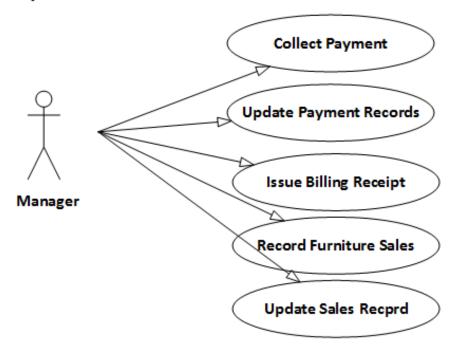
Monitor Production



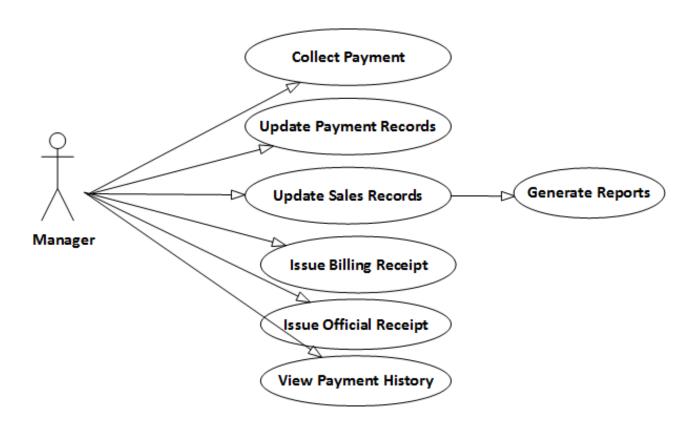
Monitor Delivery



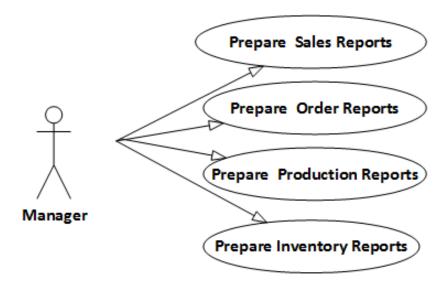
Process Payment



Manage Collections



Generate Reports



3.3.4 USE CASE DESCRIPTION

Use case: Monitor Inventory

Actor/s: Manager

Purpose: This use case enables the management to record the raw materials they have used for their production.

Brief Description: Monitoring of the inventory of raw materials used in the business.

Pre-condition: Must be an authenticated user.

Post-condition: An item must be deducted or restocked.

DAGIO FLOW		
BASIC FLOW		
ACTION EVENT	SYSTEM RESPONSE	
Receive Deliveries		
Admin accesses Raw Materials	2. Displays all materials' status and	
Management.	materials' information.	
Click Receive Deliveries Button	4. Displays Delivery Information	
	from the suppliers.	
	5. Enables admin to accept a	
	delivery from the supplier.	
	Adding the raw materials to the	
	raw materials storage.	
Record Items		
Click Restock button	Enables user to update the	
	quantity of a certain item.	
Deduct Items		
Click Deduct button	Allows user to deduct the	
	quantity of a certain item.	

Use case: Manage Orders

Actor/s: Manager/Customer

Purpose: Allows the management and the customer to keep the transacted orders made in the business.

Brief Description: This use case is capable of processing the main function of the business.

Pre-condition: Must be an authenticated user.

Post-condition: An order must be saved.

BASIC FLOW:		
ACTION EVENT	SYSTEM RESPONSE	
Maintain Furni	Maintain Furniture Information	
Admin accesses products.	Displays furniture details.	
3. Click update button.	Enables admin to edit furniture information.	
5. Click Save button	6. Save information to database.	
7. Click View button	8. Allows user to see the information of a certain furniture.	
9. Click Deactivate button	10. Deactivates the existence of a furniture.	
Browse Furniture Collections		
Admin accesses Order Management	Displays the products being sold.	
3. Click view button.	Displays all the information about a particular product.	
Place Order		

1. Admin or Customer accesses	2. Displays the products being sold.	
products.		
3. Click cart button.	4. Add the selected product to cart.	
5. Click proceed to checkout button.	6. Enables user to put information such	
	as the delivery information, payment	
	information, customer information, and	
	remarks about the order information.	
7. Click Save & Print	8. Saves the order to Orders.	
Cance	Cancel Order	
Admin or Customer accesses	2. Displays all the user's orders.	
orders.		
3. Click Update button.	4. Enables the user to modify his	
	orders.	
5. Click cancel order button.	6. Enables the user to cite out the	
	reason for cancelling.	
7. Click cancel order button	8. Deletes the order from Orders.	
Modify	/ Order	
1. Admin or Customer accesses	2. Displays all the user's orders.	
orders.		
3. Click Update button.	4. Enables the user to modify his	
	orders.	
5. Click Save button	6. Saves the new order information.	
Record Order		
1. Admin accesses orders.	2. Displays all the user's orders.	
3. Click accept button.	4. Accepts an order.	
Return Order		
Admin click Return orders from	2. Display list of return orders and	

transaction.	its status.
Click Update button	4. Enables user to update the
	status of the returned product.
Release	e Order
Admin accesses Releasing	2. List of orders to be delivered
of orders in transaction.	must be displayed.
3. Click New button	4. Enables user to modify an
	order to be released.
5. Click Delivery Receipt	6. Must output a receipt to be
	printed.
Update Furniture Sales	
Admin accesses orders.	2. Displays all the furnitures for
	sale.
Click Update button.	4. Enables the admin to modify
	furniture information.
5. Click Save button	6. Saves the updated furniture
	information.
Issue Billin	ng Receipt
Admin access Orders	2. List of orders withing bills must
	be displayed.
Click Bill button	4. Billing receipt must be produced
Issue Official Receipt	
Admin access Ordering in	2. Enables user to order from
transactions	brochures displayed.
Click save button	4. Saves information to the
	database.
5. Click Print button	6. Official receipt must be
	produced.
Accept Orde	er Requests

Click Order Request from	Displays list of order requests
Orders	from the website.
Click Accept button	Accepts the order requests and
	transfer to Orders.
Send Customized	Furniture Design
Admin access Dashboard.	
Click Customization Request	List of customer request must be
	displayed.
4. Click Accept	5. Accepts the request made by the
	customer.
Maintain Customer Information	
Admin access Customer	6. Displays list of customers'
information tab.	information that can be modified.

Use case: Monitor Production

Actor/s: Manager/Customer

Purpose: Enables the management and the customer to track the production made per order.

Brief Description: Monitoring of the production per furniture ordered.

Pre-condition: Must be an authenticated user.

Post-condition: A production must be updated per phase finished.

BASIC FLOW	
ACTION EVENT	SYSTEM RESPONSE
Issue Job Order Form	

Click 'Update' on any	Enables the user to
production phase	update Production
displayed.	Information of furniture
	depending on what phase
	the production has gone
	to.
	3. Display's list of materials
	needed.
4. Click 'Print Job Order'	5. Job Order Form must be
	issued
Update Product	tion Information
1. Admin accesses	2. Orders that are
Production Tracking in	undergoing or pending for
Transactions.	production is displayed.
3. Click View Details	Display the ordered
	furniture and it's
	production details.
5. Click 'Start' on any	6. Display the materials
production phase	needed and the form for
displayed.	saving the information of
	when the production
	started and who handles
	that phase of production
7. Click 'Update' on any	8. Enables the user to
production phase	update Production
displayed.	Information of furniture
	depending on what phase
	<u> </u>

	the production has gone
	to.
Update Mater	ials Quantity
Click an on-going production	Displays information about
	the production.
	Enables user to deduct or
	add a material quantity per
	phase.
Check job order information	
Click an order production	Job order must be produced.
finished.	
Check production Progress	
Click Production Tracking	2. Displays list of production and
	its information.
View Production History	
Click any order production icon.	2. Displays progress for each
	phase.
3. Click production history button.	4. Displays Production History.

Use case: Monitor Delivery

Actor/s: Manager/Customer

Purpose: Enables the management and the customer to track the delivery made per order.

Brief Description: Monitoring of the delivery for every order made.

Pre-condition: Order must be finished and paid.

Post-condition: Delivery information must be updated.

BASIC FLOW	
ACTION EVENT	SYSTEM RESPONSE
Appoint D	elivery Man
Click 'Update' on any	2. Enables the user to
production phase	update Production
displayed.	Information of furniture
	depending on what phase
	the production has gone
	to.
	3. Display's list of materials
	needed.
4. Click 'Print Job Order'	5. Job Order Form must be
	issued
Issue Deliver	y Information
1. Admin click the 'Releasing of	2. Displays Delivery information
Order' under Order	per order.
Management	
Check Delive	ry Information
User clicks 'Releasing of	2. Displays Order's information and
Orders' under Order	status.
Management	
Manage Furni	ture to Deliver
Click New button	2. Displays form about the order
	and delivery details to be fill up
	by the user.

3. Choose order number or name	4. Displays orders to be delivered.
to whom the delivery will	
address.	
	5. Release information to be fill up
	by the user must display.
Update Del	ivery Status
Click an order to be updated.	Shows form that must be fill up
	by the user to be able to update
	a delivery status.
3. Click the check box for finish	4. Date to be modified must appear.
delivery.	
5. Click Save button	6. Delivery status must change
	depending on the updated
	information inputted.
View Delivery Status	
User clicks 'Releasing of Orders'	2. Displays Order's information
under Order Management	and delivery status.

Use case: Process Payment

Actor/s: Manager

Purpose: Record every process made per payment transacted in the business.

Brief Description: Keeps the information needed for every payment made by the customer to the Furniture shop.

Pre-condition: An order must be made.

Post-condition: Official Receipt and Billing is produced.

BASIC FLOW			
ACTION EVENT	SYSTEM RESPONSE		
Collect I	Collect Payment		
Admin inputted the payment	2. Computes change for the		
details from the customer.	remaining balance.		
User clicks Save button	Official Receipt must be		
	produced.		
	5. Official Receipt should be		
	printed.		
Issue Billing Receipt			
Click Bill button from the	Billing receipt is produced.		
Collections transaction.			

Use case: Manage Collections

Actor/s: Manager

Purpose: To keep track of the billing payments made by the customers.

Brief Description: Manage payments made from billing transactions per every product sold.

Pre-condition: Successful order record must be existing.

Post-condition: Official and Billing receipt is produced.

BASIC FLOW			
ACTION EVENT	SYSTEM RESPONSE		
Collect	Collect Payment		
Admin inputted the payment	2. Computes change for the		
details from the customer.	remaining balance.		
User clicks Save button	Official Receipt must be		
	produced.		
	5. Official Receipt should be		
	printed.		
Issue Billing Receipt			
3. Click Bill button from the	4. Billing receipt is produced.		
Collections transaction.			
Issue Offi	Issue Official Receipt		
Click Payment button			
2. Fill up Payment form and input			
the amount paid.			
3. Click Save button	4. Official receipt must be produced		
	and ready to be printed.		
View Payr	View Payment History		
Click 'Payment' button.	2. Displays payment transaction to		
	be fill up.		
3. Click 'View Payment History'	4. Customer's past records of		
button	payments is displayed.		

Use case: **Generate Reports**

Actor/s: Manager

Purpose: To keep track of the records gathered from the transactions made by the business.

Brief Description: Official documents that gives summarized information about a particular transaction.

Pre-condition: There must be a daily/monthly/annually data from the records.

Post-condition: Reports for a particular transaction is produced.

BASIC FLOW	
ACTION EVENT	SYSTEM RESPONSE
Prepare Sa	lles Report
Admin accesses Sales Report in	2. Displays list of sales depending
Reports.	on the frequency selected.
3. Choose daily in frequency	4. Displays list of sales records
	within the day.
5. Choose monthly in frequency	6. Display list of sales records
	within the month.
7. Choose annual in frequency	8. Display list of sales records
	within the year.
9. Click Print button.	10. Must print sales report of within
	the chosen frequency.
Prepare Or	der Report
Admin accesses Order Report in	2. Displays list of Order records
Reports.	depending on the frequency
	selected.
3. Choose daily in frequency	4. Displays list of Order records
	within the day.
5. Choose monthly in frequency	6. Display list of Order records

	within the month.
7. Choose annual in frequency	Display list of Order records within the year.
9. Click Print button.	10. Must print Order report of within
	the chosen frequency.
Prepare Produ	uction Report
Admin accesses Production	Displays list of Production
Report in Reports.	records depending on the
	frequency selected.
Choose daily in frequency	Displays list of Production
	records within the day.
5. Choose monthly in frequency	6. Display list of Production
	records within the month.
7. Choose annual in frequency	8. Display list of Production
	records within the year.
9. Click Print button.	10. Must print Production report of
	within the chosen frequency.
Prepare Inve	ntory Report
Admin accesses Inventory	2. Displays list of Inventory
Report in Reports.	records depending on the
	frequency selected.
3. Choose daily in frequency	4. Displays list of Inventory
	records within the day.
5. Choose monthly in frequency	6. Display list of Inventory records
	within the month.
7. Choose annual in frequency	8. Display list of Inventory records
	within the year.

9. Click Print button.	10. Must print sales report of within
	the chosen frequency.

3.3 TECHNICAL SPECIFICATION

3.3.1. CLASS DIAGRAM

3.3.1.1 DATA DICTIONARY OF CLASSES

Tables	Description
ATTRIBMEASURE	Contains the measurements needed
	for an attribute.
ATTRIBUTES	Contains the attributes that a material
	may have.
BANK ACCOUNTS	Contains the bank account information
	provided by the management. If the
	customer chooses to pay via bank the
	information of the bank account will be
	coming from here.
BRANCHES	Contains the bank account information
	provided by the management. If the
	customer chooses to pay via bank the
	information of the bank account will be
	coming from here.
CHECK DETAILS	Contains the bank account information
	provided by the management. If the
	customer chooses to pay via bank the
	information of the bank account will be
	coming from here.
COMPANY INFORMATION	Table contains the company
	information. This information is
	displayed on the website.
CUSTOMER REQ IMAGES	Contains the images of the
	customization request from the
	customer.
CUSTOMER	Contains the information of the

	customer.				
CUSTOMIZE REQUEST	Contains the information of the				
	customer's customization request.				
DELIVERY	Contains the delivery information of				
	the order to be delivered.				
DELIVERY DETAILS	Contains the information of the				
	delivery.				
DELIVERY RATES	Contains delivery rates information.				
DESIGN PHASE	Contains the phases that a certain				
	furniture design must undergo				
DOWNPAYMENT					
EMPLOYEE JOB	Contains the jobs of the employee				
EMPLOYEE	Contains the employee information				
FABRIC PATTERN	Contains the patterns or designs of a				
	fabric. It is used to define the fabrics				
	properly.				
FABRIC TEXTURE	Contains the texture. It is used to				
	define the fabric type properly.				
FABRIC TYPE	Contains the fabric types. It is used to				
	define the fabrics properly.				
FABRICS	Contains the fabrics. It is used to				
	define the products				
FRAME DESIGN	Contains the frame design. It is used				
	to define the frameworks.				
FRAME MATERIAL	Contains the frame design. It is used				
	to define the frameworks.				
FRAMEWORKS	Contains the frameworks. It is used to				
	define the products.				
FURNITURE CATEGORY	Contains the category of the products				
FURNITURE DESIGN	Contains the possible design of the				

	product				
FURNITURE YPE	Contains the furniture type				
INVOICE DETAILS	Table contains the invoice information				
	of the customer's order				
JOBS	Contains the jobs in the company				
LOGS	Contains the actions or changes that a				
	certain user did in the system				
MATERIALS ACTIONS	Contains the actions done in the raw				
	materials management				
MATERIALS DELIVERIES	Contains the deliveries of materials				
	received from the supplier.				
MATERIALS DELIVERYDETAILS	Contains the details of the deliveries.				
MATERIALS INVENTORY	Contains the quantity of materials.				
MATERIALS TYPE	Contains the types of material. It is use				
	to define a material.				
MATERIALS VAR	Contains the variants of a material.				
MATERIALS	Contains the materials used in making				
	furniture.				
MODE OF PAYMENT	Contains the mode of payments.				
ONHAND	Contains the record of the on hand				
	products.				
ORDER ACTIONS	Contains the action that the user made				
	on the orders.				
ORDER CUSTOMIZATION	Contains the action customizations or				
	special request the customer has				
	made on every ordered furniture				
ORDER REQUEST	Contains the details of every order				
ORDER RETURN	Contains the record of orders that				
	have been returned				
ORDER RETURN DETAILS	Contains the details of the return				

record				
Contains the orders made by the				
customers				
Contains the products included in				
every packages.				
Contains the packages available in the				
shop.				
Contains the payments made by the				
customer				
Contains the penalties of the shop				
Contains the phases a furniture must				
undergo under the production				
Contains the other images of the				
product				
Contains the production information of				
a product according to phase				
Contains the materials needed in				
every production phase of the product				
Contains the materials needed in				
every production phase of the product				
Contains the furniture that the shop				
can make.				
Contains the production information of				
every ordered furniture				
Contains the information of production				
per phases of production.				
Contains the condition of a promo				
Contains the promotion or the				
Contains the promotion or the incentive of a promo.				

SUPPLIER	This table contains the suppliers			
UNIT CATEGORY	Contains the category in which the unit			
	of measurement falls.			
UNIT OF MEASUREMENT	Contains the unit of measurements			
UNIT OF MEASUREMENT	Contains the categories of unit of			
CATEGORY	measurements			
USER	Contains the information of the users			
	of the system.			
VARIANT DETAILS	Contains the details of the variants			

Table 7. List of Classes

tblcust_req_images tblcustomize_request cust_req_imagesID int PK cust_req_ID int FK customizedID int PK customerID int PK accountdetailsID int FK + orderProduct(); + customizeOrder(): customFrameID int FK + cancelOrder(); + returnOrder(); custom FabricID int FK + customizeOrder(); + customizeOrder(); frameworkID int PK frameworkFurnType int FK framedesignID int FK materialUsedID int FK tblorders orderID int PK receivedbyUserID int FK invorderID int FK tblfurn type custOrderID int FK invDelrateID int FK typeID int PK invPenID int FK + updateOrder(); + cancelOrder(): typeCategoryID int FK + returnOrder(); + releaseOrder(); tbldelivery_rates tblframe_design delivery_rateID int PK delBranchID int FK designID int PK userID int PK + selectDeliveryRate(); userCustID int FK userEmpID int FK + updateOrder(); + acceptPayment(); tblframe_material tblbranches materialID int PK branchID int PK + selectBranch(); tblemployee empID int PK tblfurn_category + acceptPayment(); categoryID int PK penaltyID int PK + selectPenalty(); tblorder_actions orActionID int PK orOrderID int FK + updateOrder(); check_detailsID int PK p_detailsID int FK tblorder_request + cancelOrder(); + returnOrder(); + releaseOrder(); order_requestID int PK orderProductID int FK tblOrdersID int FK orderPackageID int FK + orderProduct(); + customizeOrder(); tblorder_customization tblpayment_details orCustID int PK payment_detailsID int PK invID int FK mopID int FK orOrderReqID int FK orFabricID int FK tblonhand orFrameworkID int FK on HandID int PK + customizeOrder(); oh ProdID int FK + orderProduct(); tblmodeofpayment onpromoID int PK prodPromoID int FK modeofpaymentID int PK tblproducts + selectModeOfPayment(); productID int PK promoDescID int FK prodCatID int FK prodTypeID int FK + orderProduct(); prodFrameworkID int FK tblpromo packageID int PK promoID int PK tblframeworks tblfabrics frameworkID int PK frameworkFurnType int FK framedesignID int FK fabricID int PK fabricTypeID int FK fabricPatternID int FK materialUsedID int FK designID int PK tblfabric_type tblfurn_type tblfurn_catergory f_typeID int PK f_typeTextureID int FK typeID int PK categoryID int PK typeCategoryID int FK

3.3.1.2 CLASS DIAGRAMS (PER USE CASE BY SYSTEM)

Figure 11 Manage Orders Class Diagram

tblfabric_pattern

f_patternID int PK

textureID int PK

tblframe_material

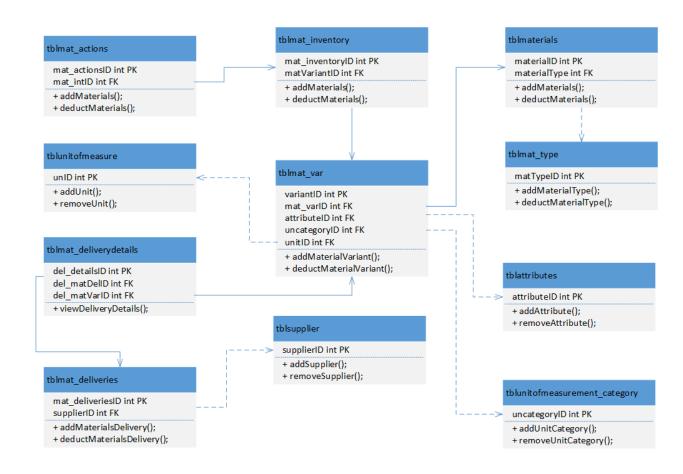


Figure 11.1 Monitor Inventory Class Diagram

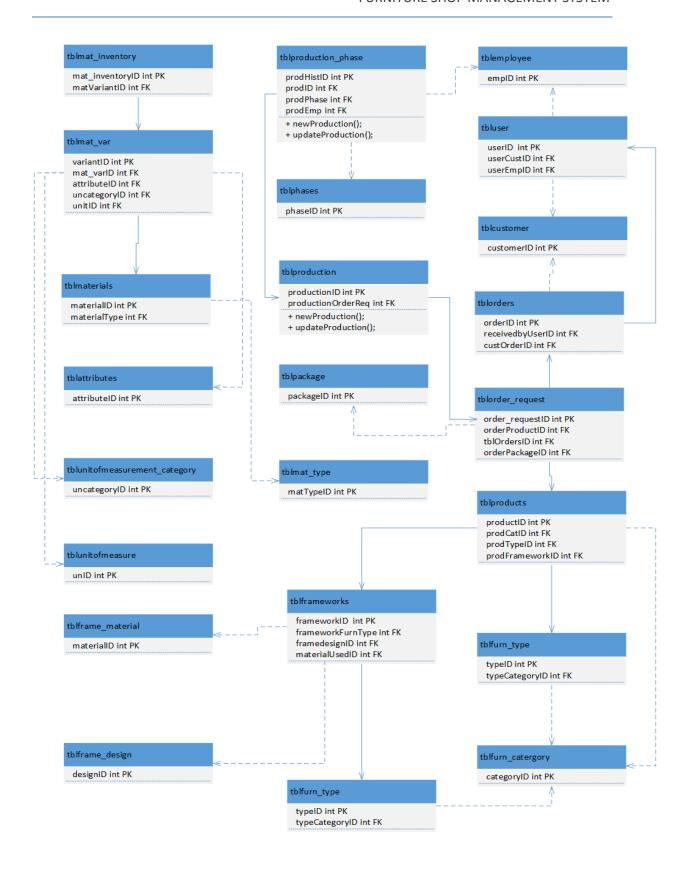


Figure 11.2 Monitor Production Class Diagram

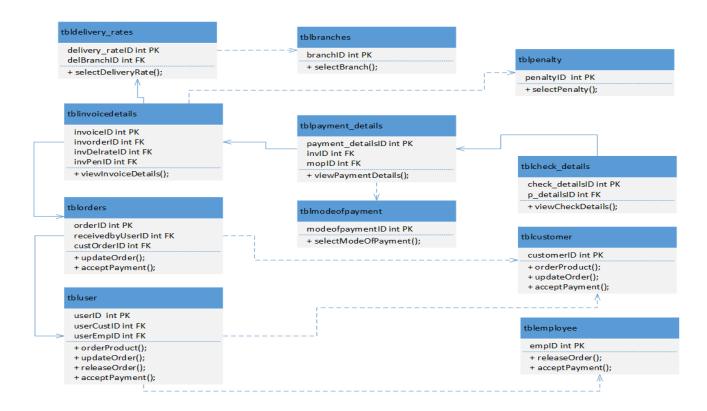


Figure 11.3 Process Payment Class Diagram

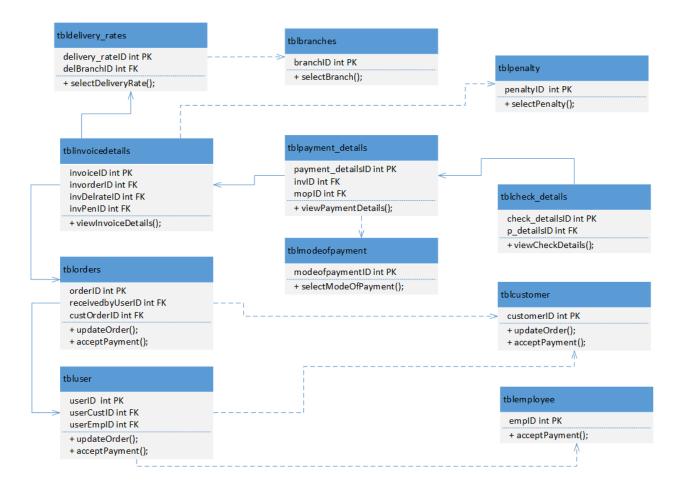


Figure 11.4 Manage Collections Class Diagram

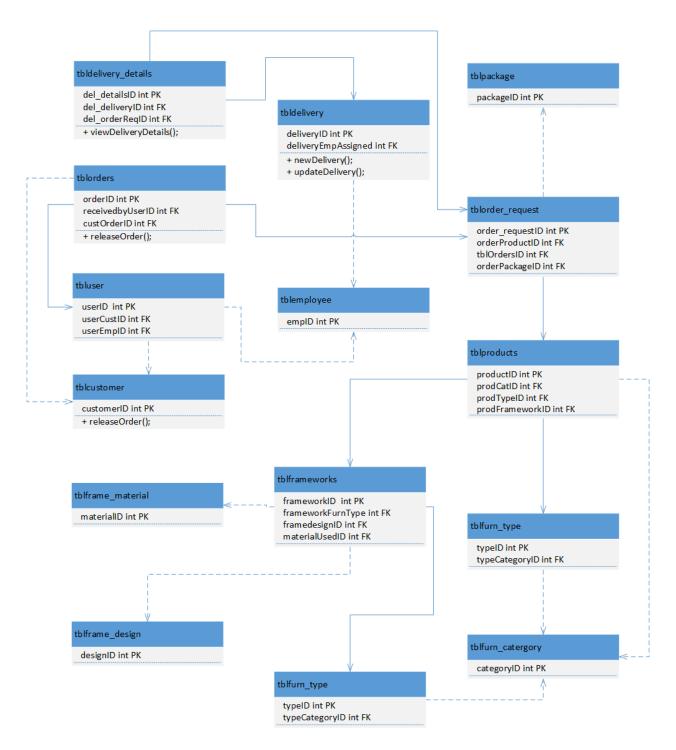
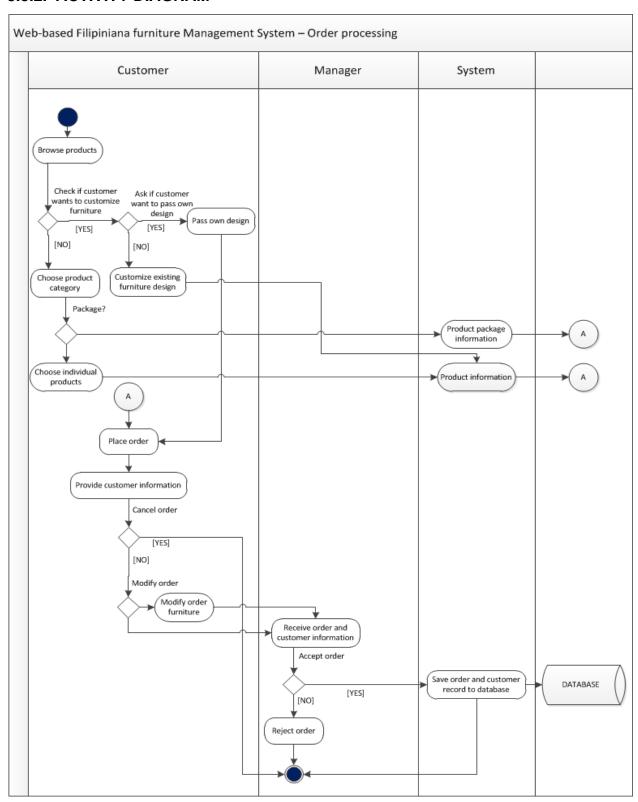
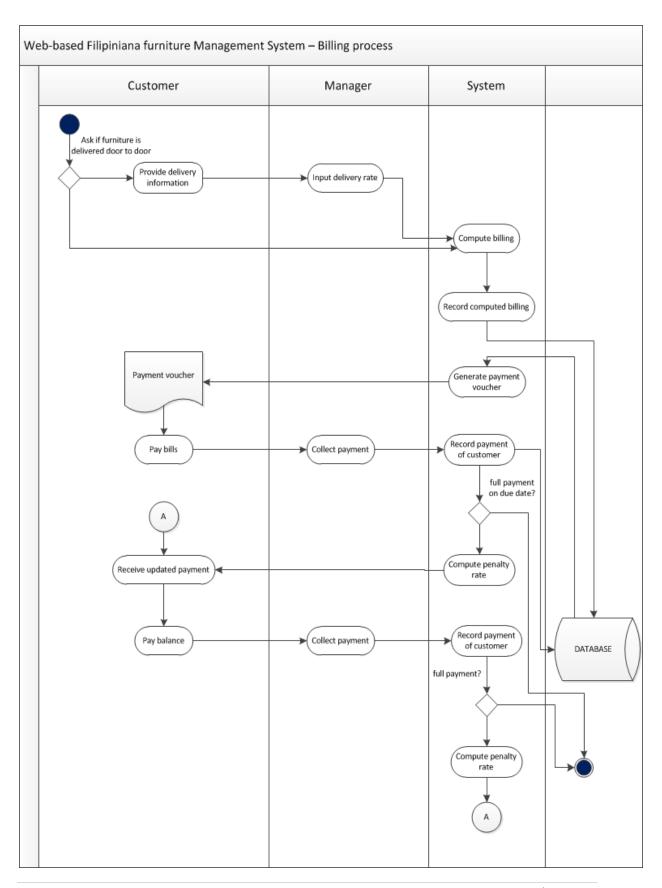
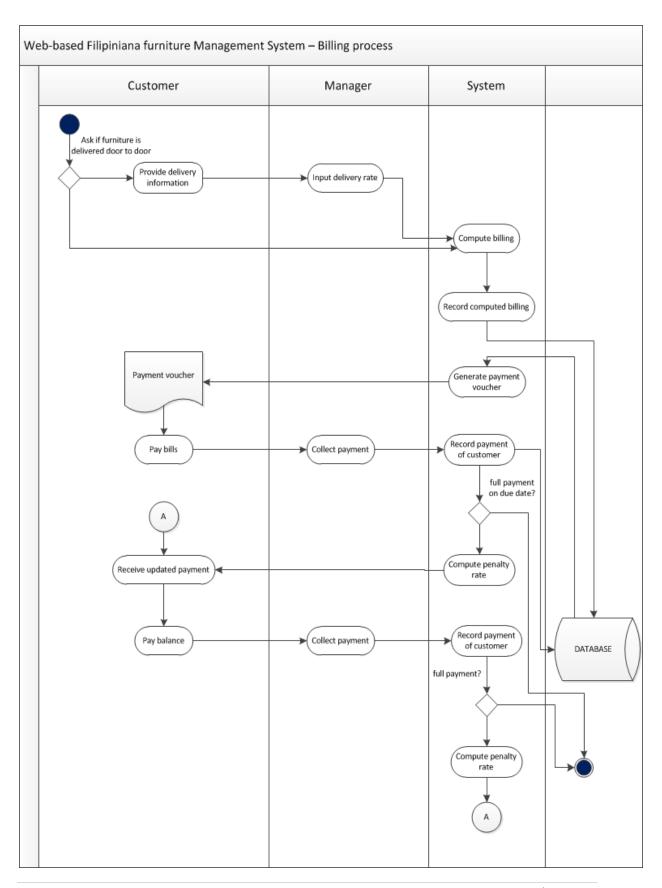


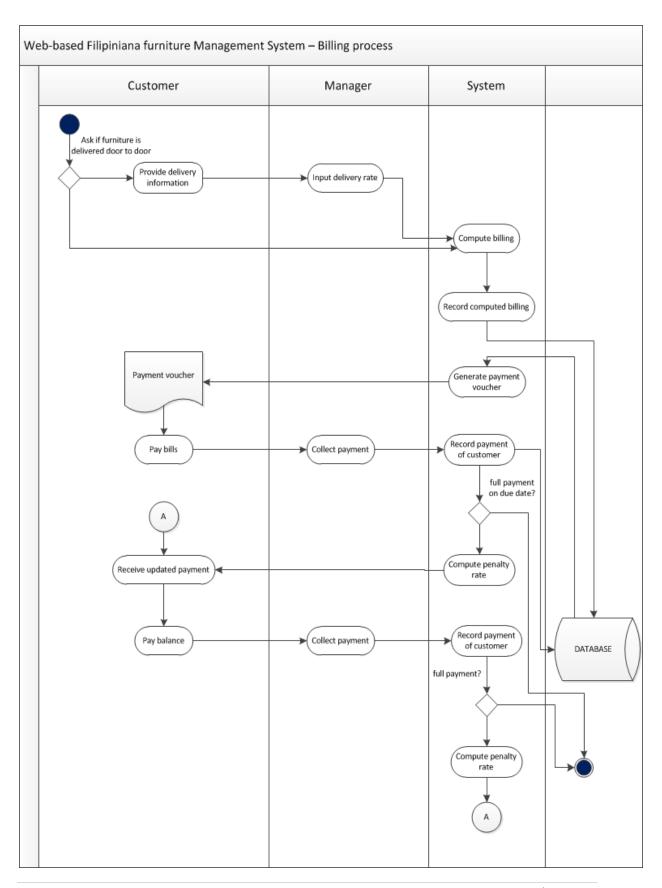
Figure 11.5 Monitor Delivery Class Diagram

3.3.2. ACTIVITY DIAGRAM









Production Tracking

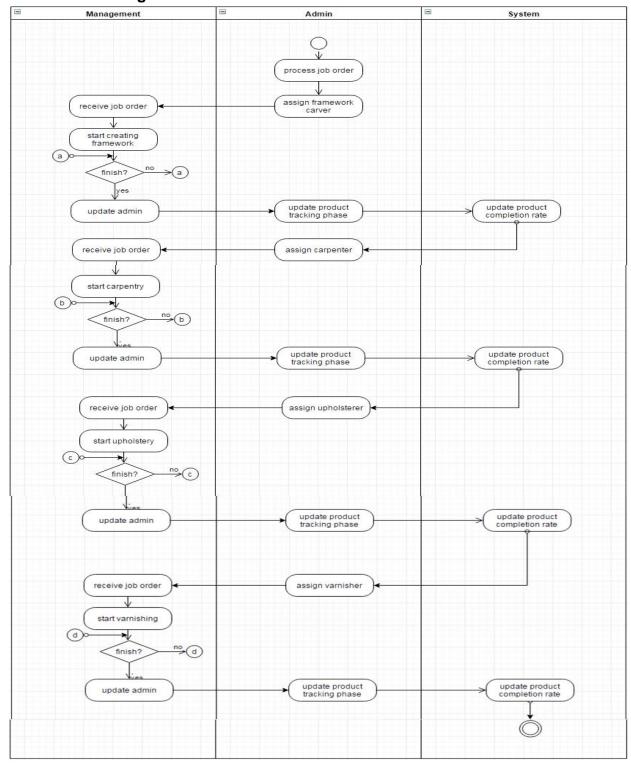
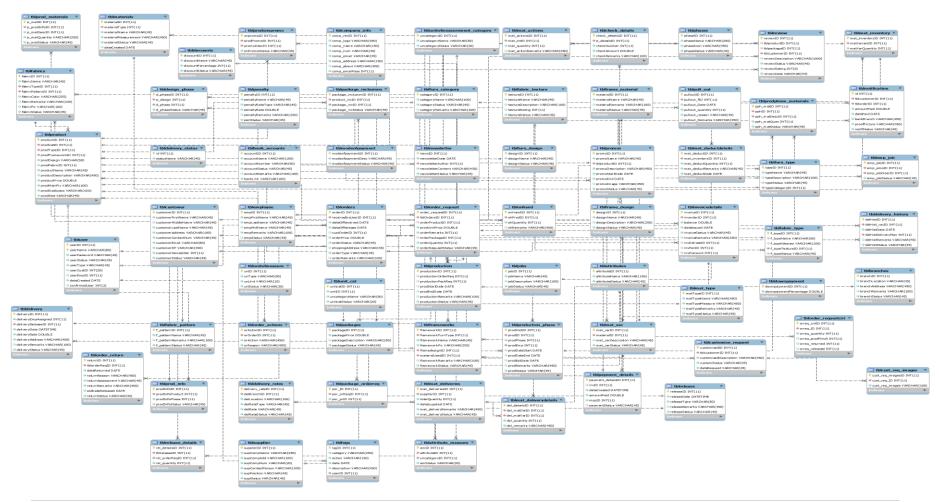


Figure 12. Activity Diagram

3.3.3. DATABASE DESIGN

3.3.3.1 DATABASE SCHEMAinfor



3.3.3.2 DATA DICTIONARY

Table Name: tblattribute_measure

Related Table: tblattributes, tblunitofmeasurement_category

Description: This table contains the measurements needed for an attribute.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	amID	Attribute measure ID	INT (11)	N/A	N/A	1	Yes	1	N/A
FK	attributeID	ID of attribute from tblattributes	INT (11)	N/A	N/A	N/A	Yes	1	ID must exist in tblattributes
FK	uncategoryID	Description of the Project	INT(11)	N/A	N/A	N/A	Yes	1	ID must exist in tblunitofmeasure ment_category
	amStatus	Status of attribute measure record	VARCHAR(2 0)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblattributes

Related Table:

Description: This table contains the attributes that a material may have.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	attributeID	ID's of attributes	INT(11)	N/A	N/A	1	Yes	1	N/A
	attributeName	Name of attributes	VARCHAR(1	N/A	N/A	N/A	Yes	Color	N/A
			50)						
	attributeStatus	Status of attributes	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
		record	5)						

Table Name: tblbank_accounts

Related Table:

Description: This table contains the bank account information provided by the management. If the customer chooses to pay via bank the information of the bank account will be coming from here.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	accountID	ID's of bank	INT(11)	N/A	N/A	1	Yes	1	N/A
		accounts record							
	accountName	Name of the	VARCHAR(1	N/A	N/A	N/A	Yes	Aira B.	N/A
		account holder	00)					Coronado	

accountNumbe	Number of account	INT(11)	N/A	N/A	N/A	Yes	201402207MN	N/A
r							0	
accountStatus	Status of bank	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
	account record	5)						
accountRemar	Remarks on the	VARCHAR(1	N/A	N/A	N/A	No	A bank	N/A
ks	bank account	00)					account	

Table Name: tblbranches

Related Table:

Description: This table contains the bank account information provided by the management. If the customer chooses to pay via bank the information of the bank account will be coming from here.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	branchID	ID's of the branch	INT(11)	N/A	N/A	1	Yes	1	N/A
		record							
	branchLocation	Location of the	VARCHAR(4	N/A	N/A	N/A	Yes	Bacoor	N/A
		branch	5)						
	branchAddress	Specific address of	VARCHAR(4	N/A	N/A	N/A	Yes	#23 Talaba II	N/A
		the branch	50)					Aguinaldo Hi-	
								way Bacoor	

							City	
branchRemark	Remarks about the	VARCHAR(1	N/A	N/A	N/A	Yes	The main	N/A
s	branch	00)					branch	
branchStatus	Remarks on the	VARCHAR(4	N/A	N/A	N/A	No	Active	N/A
	bank account	5)						

Table Name: tblcheck_details

Related Table: tblpayment_details

Description: This table contains the bank account information provided by the management. If the customer

chooses to pay via bank the information of the bank account will be coming from here.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	check_detailsI	ID's of the check details record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	p_detailsID	ID of tblpayment_details record	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in tblpayment_detail s
	checkNumber	Number of the check	INT(11)	N/A	N/A	N/A	Yes	0000001	N/A
	checkAmount	Remarks about the	DOUBLE	N/A	N/A	N/A	Yes	1000.00	N/A

	branch							
checkRemarks	Remarks on the	VARCHAR(1	N/A	N/A	N/A	No	Payment for	N/A
	bank account	00)					an order	

Table Name: tblcompany_info

Related Table:

Description: This table contains the company information. This information is displayed on the website.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	comp_recID	ID of the company information record	INT(11)	N/A	N/A	1	Yes	1	N/A
	comp_logo	Filename of the company logo	VARCHAR(4 50)	N/A	N/A	N/A	Yes	Logo.png	N/A
	comp_name	The name of the company	VARCHAR(1 50)	N/A	N/A	N/A	Yes	Filipiniana Furniture Shop	N/A
	comp_num	The company's contact information	INT(11)	N/A	N/A	N/A	Yes	765-4321	N/A
	comp_email	The company's email address	VARCHAR(4 5)	N/A	N/A	N/A	Yes	filfurniture@g mail.com	N/A

comp_emailPa	The company's	VARCHAR(4	N/A	N/A	N/A	Yes	Password	N/A
SS	email password	5)						
comp. address	The company's	VARCHAR(1	N/A	N/A	N/A	Yes	Talaba II,	N/A
comp_address	address	50)					Bacoor City	
comp. chout	The company's	VARCHAR(4	N/A	N/A	N/A	Yes	A furniture	N/A
comp_about	about	50)					shop.	

Table Name: tblcust_req_images

Related Table:

Description: This table contains the images of the customization request from the customer.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	cust_req_imag	ID of the company	INT(11)	N/A	N/A	1	Yes	1	N/A
	esID	information record							
FK		Filename of the		N/A	N/A	N/A	Yes	2	Must exist in
	cust_req_ID	company logo	INT(11)						tblcustomize_req
									uest
	cust_req_imag	The name of the	VARCHAR(1	N/A	N/A	N/A	Yes	Image.jpeg	N/A
	es	company	00)						
	cust_req_imag	The company's	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A

	eStat	contact information	5)			
						1

Table Name: tblcustomer

Related Table:

Description: This table contains the information of the customer.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK		ID of the		N/A	N/A	1	Yes	1	N/A
	customerID	customer	INT(11)						
		record							
	customerFirstName	Firstname of	VARCHAR(4	N/A	N/A	N/A	Yes	Rhodora	N/A
	Customerriistivame	the customer	5)						
	customerMiddleNam	Middlename of	VARCHAR(4	N/A	N/A	N/A	No	Barrameda	N/A
	е	the customer	5)						
	customerLastName	Lastname of	VARCHAR(4	N/A	N/A	N/A	Yes	Coronado	N/A
	customerLastivame	the customer	5)						
	customerAddress	Address of the	VARCHAR(1	N/A	N/A	N/A	Yes	#123 Brgy. Batasan	N/A
	customerAddress	customer	00)					Hills Quezon City	
	customerContactNu	The customer's	VARCHAR(4	N/A	N/A	N/A	Yes	09216982449	N/A
	m	contact number	5)						

oustomorEmail	The customer's	VARCHAR(8	N/A	N/A	N/A	Yes	rhodorabbcc@yaho	N/A
customerEmail	email	0)					o.com	
au atama «Ctatua	The status of	VARCHAR(4	N/A	N/A	N/A	Yes		
customerStatus	the customer	5)						

Table Name: tblcustomize_request

Related Table: tblcustomer, tblframeworks, tblfabrics

Description: This table contains the information of the customer's customization request.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK		ID of the		N/A	N/A	1	Yes	1	N/A
	customizedID	customization	INT(11)						
		record							
FK		ID of the		N/A	N/A	N/A	Yes	2	Must exist
	accountdetailsID	customer who	INT(11)						in the
	accountdetailsiD	request the							tblcustomer
		customization							
	ouetomized Die	Filename of	VARCHAR(4	N/A	N/A	N/A	No	Cust.jpeg	N/A
	customizedPic	the	5)						

		customization image							
	customizedDescriptio n	Description of the customization	VARCHAR(2 50)	N/A	N/A	N/A	Yes	Coronado	N/A
FK	customFrameID	ID of the chosen framework	INT(11)	N/A	N/A	N/A	No	2	Must exist in the tblframewor ks
FK	customFabricID	ID of the chosen fabric	INT(11)	N/A	N/A	N/A	No	4	Must exist in the tblfabrics
	customStatus	Status of the customization	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Pending	N/A

Table Name: tbldelivery

Related Table: tblemployee

Description: This table contains the delivery information of the order to be delivered

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation	
-----	------------	-------------	-----------	-----	-----	---------	----------	-------------	------------	--

PK	deliveryID	ID of the delivery record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	deliveryEmpAssign ed	ID of the employee assigned in the delivery	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tblemployee
	deliveryDate	Date of delivery	DATETIME	N/A	N/A	N/A	Yes	2017-08-25	N/A
	deliveryRate	Rate of delivery	DOUBLE	N/A	N/A	N/A	Yes	1000.00	N/A
	deliveryAddress	Address of delivery	VARCHAR(4 50)	N/A	N/A	N/A	Yes	#123 Kagawad Street Batasan Hills Quezon City	N/A
	deliveryRemarks	Remarks on the delivery	VARCHAR(1 00)	N/A	N/A	N/A	No	A delivery	N/A
	deliveryStatus	Status of the delivery	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Pending	N/A

Table Name: tbldelivery_details

Related Table: tbldelivery,tblorder_request

Description: This table contains the information of the delivery.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	del_detailsID	ID of the delivery details record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	del_deliveryID	ID of the delivery record	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tbldelivery
FK	del_orderReqI D	ID of the order request	INT(11)	N/A	N/A	N/A	Yes	3	Must exist in the tblorder_request
	del_quantity	Quantity of the deliver order request to be delivered	INT(11)	N/A	N/A	N/A	Yes	5	N/A
	del_status	Status of the delivery details table	VARCHAR(45)	N/A	N/A	N/A	Yes	Pending	N/A

Table Name: tbldelivery_rates

Related Table: tblbranches

Description: This table contains delivery rates information.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	delivery_ratel	ID of the delivery	INT(11)	N/A	N/A	1	Yes	1	N/A

	D	details record							
FK	delBranchID	ID of the branch	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the
		record							tblbranches
	delLocation	Location of the	VARCHAR(1	N/A	N/A	N/A	Yes	Bacoor	Must exist in the
	deiLocation	delivery	00)						tblorder_request
		Rate Type can either		N/A	N/A	N/A	Yes	Amount	N/A
		be percentage or a							
		fixed amount.	VARCHAR(4						
	delRateType	Percentage	5)						
		pertaining to the	3)						
		percentage of the							
		total price.							
	delRate	Rate of the delivery	VARCHAR(4	N/A	N/A	N/A	Yes	1000.00	N/A
	dentate		5)						
	delRateStatus	Status of the delivery	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
	uentaleolalus	rate	5)						

Table Name: tbldesign_phase

Related Table: tblphases, tblfurn_design

Description: This table contains the phases that a certain furniture design must undergo.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	d_phaseID	ID of the delivery details record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	p_design	ID of the furniture design	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tblfurn_design
FK	d_phase	ID of the production phase	INT(11)	N/A	N/A	N/A	Yes	3	Must exist in the tblphases
	d_phaseStatu s	Status of the record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tbldelivery_status

Related Table:

Description: Status of deliveries

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	id	ID of the delivery details	Int(11)	N/A	N/A		Yes	1	N/A
	statusName	Name of the delivery	Varchar(45)	N/A	N/A		Yes	Pending	N/A

	0101110			1	
	status.			1	
				1	
				i	

Table Name: tbldiscounts

Related Table:

Description: This table contains discount information

Key	Field Name	Description	Data type	min	max	default	required	sample	Validation
pk	discountID	ID of the discounts	Int(11)	n/a	n/a		yes	1	n/a
	discountName	Name of discounts	varchar(45)	n/a	n/a		yes	Friendly Discount	n/a
	discountPercentage	Percentage of the discounts	Int(11)	n/a	n/a		yes	50	n/a
	discountStatus	Status of the discount	Varchar(45)	n/a	n/a		yes	active	n/a

Table Name: tbldownpayment

Related Table:

Description: This table contains the downpayment information

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	downpaymentID	ID of the delivery details record	INT(11)	N/A	N/A	1	Yes	1	N/A
	downpaymentP ercentage	The percentage of the required downpayment to be paid	DOUBLE	N/A	N/A	N/A	Yes	.50	N/A

Table Name: tblemp_job

Related Table: tblemployee,tbljobs

Description: An employee can have multiple jobs. This table contains the jobs of the employee.

Ke	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
у									
PK	emp_jobID	ID of the delivery details record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	emp_empID	ID of the employee	INT(11)	N/A	N/A	N/A	Yes	1	N/A
FK	emp_jobDescID	ID of the job	INT(11)	N/A	N/A	N/A	Yes	1	N/A
	emp_jobStatus	Status of the record	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A

	5)			
	3)			

Table Name: tblemployee

Related Table:

Description: This table contains the employee information

Ke	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
у									
PK	empID	ID of the employee	INT(11)	N/A	N/A	1	Yes	1	N/A
	empFirstName	First Name of the	VARCHAR(4	N/A	N/A	N/A	Yes	Rhodora	N/A
	еттритьшатье	employee	5)						
	empLastName	Last Name of the	VARCHAR(4	N/A	N/A	N/A	Yes	Cooronado	N/A
	empLastivame	employee	5)						
	empMidName	Middle Name of the	VARCHAR(4	N/A	N/A	N/A	Yes	Barrameda	N/A
	empiviidivame	employee	5)						
	empRemarks	Remarks	VARCHAR(1	N/A	N/A	N/A	No	An employee	
	empitemarks		00)						
	empStatus	Status of the employee	VARCHAR(4	N/A	N/A	N/A	Yes	Active	
	ompotatus		5)						

Table Name: tblfabric_pattern

Related Table:

Description: This table contains the patterns or designs of a fabric. It is used to define the fabrics properly.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	f_patternID	ID of the pattern	INT(11)	N/A	N/A	1	Yes	1	N/A
	f_patternName	Name of the pattern	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Floral	N/A
		Remarks of the		N/A	N/A	N/A	No	A	N/A
	f_patternRemar	pattern	VARCHAR(1					combination	
	ks		00)					of multiple	
								flowers	
	f_patternStatus	Status of the pattern	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
		record	5)						

Table Name: tblfabric_texture

Related Table:

Description: This table contains the texture. It is used to define the fabric type properly.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation

PK	textureID	ID of the texture	INT(11)	N/A	N/A	1	Yes	1	N/A
	textureName	Name of thetexture	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Very smooth	N/A
	textureDescripti on	Description of the texture	VARCHAR(1 00)	N/A	N/A	N/A	No	A very smooth texture	N/A
	textureRating	Rating defines the level of the texture's quality	INT(11)	N/A	N/A	N/A	Yes	5	N/A
	textureStatus	Status of the record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblfabric_type

Related Table: tblfabric_texture

Description: This table contains the fabric types. It is used to define the fabrics properly.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	f_typeID	ID of the fabric type	INT(11)	N/A	N/A	1	Yes	1	N/A
	f_typeName	Name of the fabric	VARCHAR(50)	N/A	N/A	N/A	Yes	Leather	N/A

		type							
	f_typeWeave	Description fabric	VARCHAR(100	N/A	N/A	N/A	No	Compactly	N/A
	S	type's weaves.)					weaved	
FK		ID of the texture of the		N/A	N/A	N/A	Yes	5	Must exist in
	f_typeTexture	fabric type	INIT/44)						the
	ID		INT(11)						tblfabric_textur
									e.
	f_typeStatus	Status of the record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblfabrics

Related Table: tblfabric_type, tblfabric_pattern

Description: This table contains the fabrics. It is used to define the products.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	fabricID	ID of the fabric	INT(11)	N/A	N/A	1	Yes	1	N/A
	fabricName	Name of the fabric	VARCHAR(45)	N/A	N/A	N/A	Yes	Gold Rani	N/A
FK	fabricTypel D	ID of the fabric type	INT(11)	N/A	N/A	N/A	Yes	4	Must exist in the tblfabric_type

FK		ID of the fabric pattern		N/A	N/A	N/A	Yes	5	Must exist in
	fabricPatter		INIT/44)						the
	nID		INT(11)						tblfabric_patter
									n
	fabricColor	Color description of the	VARCHAR(255	N/A	N/A	N/A	Yes	Black and	N/A
	TabricColor	fabric)					Yellow	
	fabricRemar	Remarks about the	VARCHAR(100	N/A	N/A	N/A	No		N/A
	ks	fabric)						
	fabricPic	The filename of the	VARCHAR(100	N/A	N/A	N/A	Yes	201708251	N/A
	Idulicric	fabric's image.)					047.jpeg	
	fabricStatus	Status of the record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblframe_design

Related Table:

Description: This table contains the frame design. It is used to define the frameworks.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	designID	ID of the frame design	INT(11)	N/A	N/A	1	Yes	1	N/A
	designNam	Frame design name	VARCHAR(45)	N/A	N/A	N/A	Yes	Classic	N/A

е								
designDesc	Design description	VARCHAR(250	N/A	N/A	N/A	No	A classical	N/A
ription)					design	
designStatu s	Status of the record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblframe_material

Related Table:

Description: This table contains the material used to create the frame. It is used to define the frameworks.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	materialID	ID of the frame material	INT(11)	N/A	N/A	1	Yes	1	N/A
	materialName	Frame material name	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Narra Wood	N/A
	materialRema rks	Frame material remarks	VARCHAR(1 00)	N/A	N/A	N/A	No	A material	N/A
	materialStatu s	Status of the record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblframeworks

Related Table: tblframe_design, tblfurn_type, tblframe_material

Description: This table contains the frameworks. It is used to define the products.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	frameworkID	ID of the framework	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	frameworkFurnT	Frame material	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in
	уре	name							tblfurn_type
	frameworkName	Frame material	VARCHAR(4	N/A	N/A	N/A	Yes	Jolly	N/A
	Traine Work Value	remarks	5)						
	frameworkPic	The filename of the	VARCHAR(2	N/A	N/A	N/A	Yes	2016085	N/A
	Trainework to	framework's image.	55)					129.jpeg	
FK	framedesignID	ID of the frame	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in
	Trainic de Signi D	design							tblframe_design
FK	materialUsedID	ID of the material	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in
	materialosedio	used	1141(11)						tblframe_material

frameworkRemar	Remarks	VARCHAR(1	N/A	N/A	N/A	No	Remark	N/A
ks		00)						
frameworkStatus	Status of the record	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
TrameworkStatus		5)						

Table Name: tblfurn_category

Related Table:

Description: This table contains the category of the products

Key	Field Name	Description	Data Type	Min	Max	Default	Require	Sample	Validation
							d	Data	
PK	categoryID	ID of the framework	INT(11)	N/A	N/A	1	Yes	1	N/A
	categoryName	Category name	VARCHAR(1 00)	N/A	N/A	N/A	Yes	Living Area	N/A
	categoryStatus	Status of the record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A
	categoryRemar ks	Remarks	VARCHAR(1 00)	N/A	N/A	N/A	No	A category	N/A

Table Name: tblfurn_design

Related Table:

Description: This table contains the possible design of the product. These designs are Pure, Weaved,

Upholstered.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	designID	ID of the framework	INT(11)	N/A	N/A	1	Yes	1	N/A
	designName	Category name	VARCHAR(1 00)	N/A	N/A	N/A	Yes	Pure	N/A
	designStatus	Status of the record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblfurn_type

Related Table: tblfurn_category

Description: This table contains the furniture type. It is based on the furniture category and is used to define the

products.

Key	Field Name	Description	Data Type	Min	Max	Default	Require	Sample	Validation
							d	Data	
PK	typeID	ID of the furniture type	INT(11)	N/A	N/A	1	Yes	1	N/A
	typeName	Furniture type name	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Sofa	N/A
	typeDescriptio n	Furniture type description	VARCHAR(1 00)	N/A	N/A	N/A	No	Found in the living area	N/A
	typeStatus	Status of record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A
FK	typeCategoryI D	ID of furniture category	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tblfurn_category

Table Name: tblinvoicedetails

Related Table: tblorders

Description: This table contains the invoice information of the customer's order.

Key	Field Name	Description	Data Type	Min	Max	Default	Require	Sample	Validation
							d	Data	

PK	invoiceID	ID of the invoice	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	invorderID	ID of the order	INT(11)	N/A	N/A	N/A	Yes	Sofa	Must exist in the tblorders
	balance	Remaining balance	DOUBLE	N/A	N/A	N/A	Yes	Found in the living area	N/A
	datelssued	Date the invoice was issued	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A
	invoiceStatus	Status of invoice	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Paid	N/A
	invoiceRemar ks	A remarks.	VARCHAR(2 50)	N/A	N/A	N/A	Yes	An invoice	N/A
	invDelrateID	Delivery ID	INT(11)	N/A	N/A	N/A	No	1	N/A
	invPenID	Penalty ID	INT(11)	N/A	N/A	N/A	No	1	N/A

Table Name: tbljobs

Related Table:

Description: This table contains the jobs in the company.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation

PK	jobID	ID of the job	INT(11)	N/A	N/A	1	Yes	1	N/A
	jobName	Job name	VARCHAR(4	N/A	N/A	N/A	Yes	Carpentry	N/A
	Jobiname		5)						
	jobDescripti	Job description	VARCHAR(1	N/A	N/A	N/A	Yes	Builds the	N/A
	on		00)					frame	
	jobStatus	Status of the job	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
	Jobotatus	record	5)						

Table Name: tbllogs
Related Table: tbluser

Description: This table contains the actions or changes that a certain user did in the system

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	logID	ID of the log	INT(11)	N/A	N/A	1	Yes	1	N/A
	category	Category of the action	VARCHAR(2 50)	N/A	N/A	N/A	Yes	Supplier	N/A
	action	Action description	VARCHAR(1 50)	N/A	N/A	N/A	Yes	New	N/A
	date	Date the action is done	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A

	description	Action description	VARCHAR(4 50)	N/A	N/A	N/A	Yes	Created new supplier	N/A
FK	userID	ID of the user who did the action	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tbluser

Table Name: tblmat_actions

Related Table: tblmat_inventory

Description: This table contains the actions done in the raw materials management

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	mat_actionsI D	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	mat_intID	ID of the material inventory	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tblmat_inventory
	mat_quantity	Quantity of material added or deducted	INT(11)	N/A	N/A	N/A	Yes	New	N/A
	mat_actionRe marks	Remarks	VARCHAR(4 50)	N/A	N/A	N/A	Yes	2017-08-25	N/A

Table Name: tblmat_deductdetails

Related Table: tblmat_var

Description: This table contains the materials deducted from the product upon production process.

key	Field name	description	Data type	min	max	default	required	Sample	validation
								data	
pk	mat_deduct	ld of the	Int(11)	n/a	n/a	n/a	yes	1	n/a
		deducted							
		materials							
fk	mat_inventoryID	ld of material	Int(11)	n/a	n/a	n/a	yes	1	n/a
		inventory records							
	mat_deductQuantity	Quantity of	Int(11)	n/a	n/a	n/a	yes	50	n/a
		deducted							
		materials							
	mat_deductRemarks	Information about	Varchar(45)	n/a	n/a	n/a	no	deducted	n/a
		the deduction							

Table Name: tblmat_deliveries

Related Table: tblsupplier

Description: This table contains the deliveries of materials received from the supplier.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	mat_deliveriesID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	supplierID	ID of supplier	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in tblsupplier
	totalQuantity	Total quantity of delivery	INT(11)	N/A	N/A	N/A	Yes	1	N/A
	mat_deliveryRema rks	Remark on the record	VARCHAR(4 50)	N/A	N/A	N/A	No	A remark	N/A
	mat_deliveryStatus	Status of record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblmat_deliverydetails

Related Table: tblmat_deliveries, tblmat_var

Description: This table contains the details of the deliveries.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	del_detailsID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	del_matDellD	ID of delivery record	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in tblmat_deliveries
FK	del_matVarID	ID of material variant delivered	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblmat_var
	del_quantity	Quantity delivered	INT(11)	N/A	N/A	N/A	Yes	100	N/A
	del_remarks	Remarks	VARCHAR(4 50)	N/A	N/A	N/A	No	Active	N/A

Table Name: tblmat_inventory

Related Table: tblmat_var

Description: This table contains the quantity of materials.

Rey Fleid Name Description Data Type Min Max Default Required Sample Data Validation	Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
--	-----	------------	-------------	-----------	-----	-----	---------	----------	-------------	------------

PK	mat_inventory ID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	matVariantID	ID of material variant	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in tblmat_var
	matVarQuanti ty	ID of material variant delivered	INT(11)	N/A	N/A	N/A	Yes	100	N/A

Table Name: tblmat_type
Related Table: tblmat_var

Description: This table contains the types of material. It is use to define a material.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	matTypeID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	matTypeName	Name of material	VARCHAR(4	N/A	N/A	N/A	Yes	Paint	Must exist in
	mati yperiame	type	50)						tblmat_var
	matTypeMeas	Measures of the	VARCHAR(4	N/A	N/A	N/A	Yes	Liters	N/A
	ure	material type	50)						
	matTypeRema	Remarks	VARCHAR(4	N/A	N/A	N/A	Yes	A remark	N/A
	rks		5)						
	matTypeStatu	Status of record	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A

S	5)			
	,			

Table Name: tblmat_var

Related Table: tblmaterials, tblunitofmeasurement_category, tblunitofmeasure,tblattribute

Description: This table contains the variants of a material.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	variantID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	mat_varID	ID of material	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in tblmaterials
FK	attributeID	ID of selected attribute	INT(11)	N/A	N/A	N/A	Yes	1	N/A
	mat_varDescript ion	Description of the variant attribute	VARCHAR(1 50)	N/A	N/A	N/A	Yes		N/A
FK	uncategoryID	ID of selected unit of measurement category	INT(11)	N/A	N/A	N/A	No	1	Must exist in tblunitofmeasure ment_category
	unitValue	Value if inputted	INT(45)	N/A	N/A	N/A	No	5	N/A

		unit							
FK	unitID	ID of selected	INT(11)	N/A	N/A	N/A	No	1	Must exist in
	Gillia	unit							tblmaterials
	attribCounter	Counter of	INT(11)	N/A	N/A	N/A	Yes	3	N/A
	attribeouriter	attributes							
	mat_varStatus	Status of record	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
	mai_varStatus		5)						

Table Name: tblmaterials

Related Table: tblmat_type

Description: This table contains the materials used in making furniture.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	materialID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	materialType	ID of material type	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in tblmat_type
	materialName	Material Name	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Paint	N/A
	materialMeasure ment	Measurement	VARCHAR(4 50)	N/A	N/A	N/A	Yes		N/A

materialStatus	Status of recordd	VARCHAR(4	N/A	N/A	N/A	No	A remark	N/A
materialStatus		5)						

Table Name: tblmodeofpayment

Related Table: tblmat_type

Description: This table contains the mode of payments.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	modeofpaymentID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	modeofpaymentDe sc	Mode of payment description	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Cash	N/A
	modeofpaymentSta tus	Status of record	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblonhand Related Table: tblproduct

Description: This table contains the record of the on hand products.

Key	Field	Description	Data Type	Min	Max	Default	Required	Sample	Validation

	Name							Data	
PK	onHandID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	ohProdID	ID of the product	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblproduct
	ohQuantity	Quantity on hand	INT(11)	N/A	N/A	N/A	Yes	10	N/A
	ohRemarks	Status of record	VARCHAR(45 0)	N/A	N/A	N/A	Yes	Active	N/A

Table name: tblnewsletter

Related tables: tbluser

Description: this contains the newsletters sent to subscribed customers

key	Field name	description	Data type	min	max	default	required	Sample data	validation
pk	newsletterID	ld of the newsletter	Int(11)	n/a	n/a	n/a	yes	1	n/a
	newsletterDate	date the newsletter is composed	date	n/a	n/a	n/a	yes	2017-10-14	Must not be earlier than today
fk	newletterAuthor	The id of the	Int(11)	n/a	n/a	n/a	yes	3	Must exist in

	user who							tbluser
	composed the							
	newsletter							
newsletterContent	The content of	Varchar(25000)	n/a	n/a	n/a	yes	"this is an	n/a
	the newsletter						announcement"	

Table Name: tblnotifications

related tables:

description: contains the notifications of customer payment.

Key	Field name	description	Data type	min	max	default	required	sample data	Validation
pk	id	Id of notification	Int(11)	n/a	n/a	n/a	yes	1	n/a
Fk	tblcustomerID	Id of the customer who executed the action.	Int(11)	n/a	n/a	n/a	yes	1	n/a
Fk	tblorderID	Order information of the customer	Int(11)	n/a	n/a	n/a	yes	1	n/a
	amountPaid	The amount paid for the order	double	n/a	n/a	n/a	yes	250.00	n/a
	datePaid	The date when the	date	n/a	n/a	n/a	yes	2017-14-10	n/a

	customer paid							
bankBranch	The bank branch	Varchar(45)	n/a	n/a	n/a	yes	BNORPHMM	Must be an
	where the							existing bank
	customer paid							branch.
proofPicture	The photo which	Varchar(450)	n/a	n/a	n/a	yes	Proofofpayment.jpg	must be an
	provides evidence							image.
	of payment							
notifStatus	Status of the	Varchar(45)	n/a	n/a	n/a	Yes	Pending	n/a
	notification							

Table Name: tblorder_actions

Related Table: tblorders

Description: This table contains the action that the user made on the orders.

Key	Field	Description	Data Type	Min	Max	Default	Required	Sample	Validation
	Name							Data	
PK	orActionID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	orOrderID	ID of the order	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblorders
	orAction	Quantity on hand	INT(11)	N/A	N/A	N/A	Yes	Reject	N/A

orPosson	Status of record	VARCHAR(45	N/A	N/A	N/A	Yes	Not enough	N/A
orReason		0)					materials	

Table Name: tblorder_customization

Related Table: tblorder_request, tblfabric, tblframeworks

Description: This table contains the action customizations or special request the customer has made on every

ordered furniture

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	orCustID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	orOrderReqI D	ID of the order	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblorder_request
FK	orFabricID	ID of fabric	INT(11)	N/A	N/A	N/A	No	1	Must exist in tblfabrics
FK	orFramewor kID	ID of framework	INT(11)	N/A	N/A	N/A	No	1	Must exist in tblframeworks
	orSizeSpec s	Description of specified size	VARCHAR (150)	N/A	N/A	N/A	No	187 cm lenght	N/A
	orDescriptio n	Description of customization	VARCHAR (250)	N/A	N/A	N/A	No	Gold plating on the carvings	N/A

Table Name: tblorder_request

Related Table: tblorders, tblproducts, tblpackages

Description: This table contains the details of every order.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	order_requestID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	orderProductID	ID of the product	INT(11)	N/A	N/A	N/A	No	1	Must exist in tblproducts
	productUnitPrice	Price of the furniture	DOUBLE	N/A	N/A	N/A	Yes	50000	N/A
FK	tblOrdersID	ID of order	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblfabrics
	orderRemarks	Remarks	INT(11)	N/A	N/A	N/A	No	1	Must exist in tblframeworks
FK	orderPackageID	ID of the package	INT(11)	N/A	N/A	N/A	No	1	Must exist in tblpackage
	orderQuantity	Quantity	INT(11)	N/A	N/A	N/A	No	100	N/A

orderRe	equestSt Status of o	rder VARCHAR(45	N/A	N/A	N/A	Yes	Pending	N/A
atus	reques	t)						

Table name: tblorder_requestcnt

key	Field name	description	Data type	min	max	default	required	Sample	Validation
								data	
pk	Orreq_cntID	The id of the order request count.	Int(11)	n/a	n/a	n/a	yes	1	n/a
fk	Orreq_ID	The id of the order request	Int(11)	n/a	n/a	n/a	yes	1	n/a
	Orreq_quantity	The quantity of the order requests.	Int(11)	n/a	n/a	n/a	yes	1	n/a
	Orreq_prodFinish	The quantity of order requests that are finished	Int(11)	n/a	n/a	n/a	no	35	Must not be more than the total quantity of order requests
	Orreq_returned	Quantity of	Int(11)	n/a	n/a	n/a	no	100	Must not be more

	returned							than the products
	products under							that are delivered to
	warranty							the user.
Orreq_released	Quantity of	Int(11)	n/a	n/a	n/a	no	45	Must not be more
	order requests							than the requested
	that are							products.
	released							

Table Name: tblorder_return

Related Table:

Description: This table contains the record of orders that have been returned

Key	Field	Description	Data Type	Min	Max	Default	Required	Sample	Validation
	Name							Data	
PK	returnID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	dateReturn ed	Date the furniture is returned	DATE	N/A	N/A	N/A	Yes	2017-08-28	N/A
	returnRem arks	Remarks about the return	VARCHAR(4 50)	N/A	N/A	N/A	No	A remark	N/A
	returnStatu	Status of the	VARCHAR(4	N/A	N/A	N/A	Yes	Pending	N/A

S	transaction	5)			

Table Name: tblorders

Related Table: tbluser, tblcustomer

Description: This table contains the orders made by the customers

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	orderID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	receivedbyUserl D	ID of user who accepted the order	INT(11)	N/A	N/A	N/A	Yes	Pending	N/A
	dateOfReceived	Date the order was received	DATE	N/A	N/A	N/A	Yes	2018-08-24	N/A
	dateOfRelease	Date the order was released	DATE	N/A	N/A	N/A	Yes	2018-08-30	Must exist in tblproducts
FK	custOrderID	ID of customer who ordered	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblcustomer
	orderPrice	Price of the	DOUBLE	N/A	N/A	N/A	Yes	1	N/A

	order							
orderStatus	Status of the	VARCHAR(45	N/A	N/A	N/A	Yes	1	N/A
OrderStatus	order)						
	Shipping	VARCHAR(45	N/A	N/A	N/A	No	100	N/A
shippingAddress	Address of the	1						
	order)						
orderType	Type of the	VARCHAR(45	N/A	N/A	N/A	Yes	Pending	N/A
orderrype	order)						
orderRemarks	Remarks	VARCHAR(10	N/A	N/A	N/A	No	Pending	N/A
Ordentemarks		0)						

Table Name: tblpackage_inclusions

Related Table: tblpackage,tblproduct

Description: This table contains the products included in every packages.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	package_inclusio	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	product_inclD	ID of product	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in

									tblproducts
FK		ID of package		N/A	N/A	N/A	Yes	1	Must exist in
	package_incID	this record is	INT(11)						tblpackage
		included							
	package_incStat	Status of	VARCHAR(45	N/A	N/A	N/A	Yes	Active	N/A
	us	record)						

Table name: tblpackage_orderreq

Related table:

Description: here lies the requests for packages.

key	Field name	description	Data type	min	max	default	required	Sample data	Validation
pk	Por_ID	ld for	Int(11)	n/a	n/a	n/a	yes	1	n/a
		requested							
		packages							
Fk	Por_orReqID	ld of the							
		orderRequest							

Table Name: tblpackage

Related Table:

Description: This table contains the packages available in the shop.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	nackagaID	ID of the	INIT/11)	N/A	N/A	1	Yes	1	N/A
	packageID	record	INT(11)						
	packagePrice	Price of the	DOUBLE	N/A	N/A	N/A	Yes	10000	Must exist in
	packagernce	package	DOOBLE						tblproducts
	nackaga Dagarinti	Description or		N/A	N/A	N/A	Yes	Winter	Must exist in
	packageDescripti	name of the	VARCHAR(250)					Package	tblpackage
	on	package							
	nookogo Status	Status of	\/ADCHAD(45)	N/A	N/A	N/A	Yes	Active	N/A
	packageStatus	record	VARCHAR(45)						

Table Name: tblpayment_details

Related Table: tblinvoicedetails, tblmodeofpayment

Description: This table contains the payments made by the customer

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	payment_detai	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A

	IsID								
FK	invID	ID of the invoice	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblinvoicedetails
	dateCreated	Date of payment	DATETIME	N/A	N/A	N/A	Yes	2017-08-25	N/A
	amountPaid	Amount Paid	DOUBLE	N/A	N/A	N/A	Yes	5000	N/A
FK	mopID	ID of mode of payment	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblmodeofpayment
	paymentStatus	Status of payment	VARCHAR(45)	N/A	N/A	N/A	Yes	Paid	N/A

Table Name: tblpenalty

Related Table:

Description: This table contains the penalties of the shop.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	penaltyID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	penaltyName	Penalty name	VARCHAR(45)	N/A	N/A	N/A	Yes	1	N/A
	penaltyRateTy pe	Rate type	VARCHAR(45)	N/A	N/A	N/A	Yes	Amount	N/A

penaltyRate	Rate	DOUBLE	N/A	N/A	N/A	Yes	5000	N/A
penaltyRemar ks	Remarks	VARCHAR(250)	N/A	N/A	N/A	No	A remark	N/A
penStatus	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblphases

Related Table:

Description: This table contains the phases a furniture must undergo under the production

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	phaseID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	phaseName	Phase name	VARCHAR(250)	N/A	N/A	N/A	Yes	Carpentry	N/A
	phaselcon	The filename of the phase's icon	VARCHAR(450)	N/A	N/A	N/A	Yes	Carpentry.pn g	N/A
	phaseStatus	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblprod_images

Related Table: tblproduct

Description: This table contains the other images of the product

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	prodImageID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	prodImgID	ID of the product	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblproduct
	prodImageN ame	The filename of the image	VARCHAR(100)	N/A	N/A	N/A	Yes	Carpentry.pn g	N/A
	prodImgStat us	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblprod_info

Related Table: tblproduct,tblphases

Description: This table contains the production information of a product according to phase.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	prodInfoID (Primary)	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A

FK	prodInfoPro	ID of the product	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the
	duct								tblproduct
FK	prodInfoPha	ID of phase	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the
	se		1141(11)						tblphases
	prodInfoStat	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A
	us		V7 ((+0)						

Table Name: tblprod_materials

Related Table: tblprod_info,tblmaterials,tblmat_var

Description: This table contains the materials needed in every production phase of the product

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	p_matID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	p_prodInfol	ID of the product	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the
	D								tblprod_info
FK	p_matMateri	ID of the material	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the
	allD								tblmaterials
FK	p_matDescl	ID of material	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the
	D	variant							tblmat_var

p_matQuant ity	Quantity needed	VARCHAR(250)	N/A	N/A	N/A	Yes	10	N/A
p_matUnit	ID of phase	VARCHAR(45)	N/A	N/A	N/A	Yes	pcs	N/A
p_matStatu s	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblprodsonpromo

Related Table: tblprod_info,tblmaterials,tblmat_var

Description: This table contains the materials needed in every production phase of the product

Key	Field	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
	Name								
PK	onpromoID (Primary)	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	prodPromo ID	ID of the product	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblproduct
FK	promoDesc ID	ID of the promo	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblpromo
	onPromoSt atus	Status of record	INT(11)	N/A	N/A	N/A	Yes	Active	Must exist in the tblmat_var

Table Name: tblproduct

Related Table: tblfurn_category,tblfurn_type,tblframeworks

Description: This table contains the furniture that the shop can make.

Key	Field	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
	Name								
PK	productID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	prodCatID	ID of category	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblfurn_category
FK	prodTypel D	ID of type	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tblfurn_type
FK	prodFrame workID	ID of framework	INT(11)	N/A	N/A	N/A	Yes	4	Must exist in the tblframework
	prodDesign	ID of design	VARCHAR(50)	N/A	N/A	N/A	Yes	5	N/A
	prodFabricl D	ID of fabric	INT(11)	N/A	N/A	N/A	No	6	N/A
	productNa me	Product Name	VARCHAR(45)	N/A	N/A	N/A	Yes	1	N/A
	productDes	Product Description	VARCHAR(450)	N/A	N/A	N/A	No	1	N/A

cription								
productPric e	Product Price	DOUBLE	N/A	N/A	N/A	Yes	50000	N/A
prodMainPi c	Product Main Pic	VARCHAR(100)	N/A	N/A	N/A	Yes	IMAGE.JPEG	N/A
prodSizeSp ecs	Size Specification	VARCHAR(100)	N/A	N/A	N/A	Yes	34,56,78	N/A
prodStat	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblproduction

Related Table: tblorder_request

Description: This table contains the production information of every ordered furniture

Key	Field	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
	Name								
PK	productionI	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	D								
FK	production	ID of order_request	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the
	OrderReq								tblorder_request
	prodStartD	Date start	INT(11)	N/A	N/A	N/A	Yes	2017-08-25	N/A

ate								
prodEndDa	Date start	INT(11)	N/A	N/A	N/A	Yes	2017-08-26	N/A
te								
production	Remarks	VARCHAR(5	N/A	N/A	N/A	Yes	A remark.	N/A
Remarks		0)						
production	Status of production	INT(11)	N/A	N/A	N/A	No	Ongoing	N/A
Status								

Table Name: tblproduction_phase

Related Table: tblproduction, tblemployee

Description: This table contains the information of production per phases of production.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	prodHistID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	prodID	ID of production	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblrproduction

FK	prodPhase	ID of phase	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblphases
									·
FK	n ro d C man	ID of employee	INIT/44)	N/A	N/A	N/A	Yes	1	Must exist in the
	prodEmp		INT(11)						tblemployee
	prodDateSta	Date start	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A
	rt		DATE						
	prodDateEn	Date end	DATE	N/A	N/A	N/A	Yes	2017-08-26	N/A
	d		DATE						
	prodRemark	Remarks on	\/A DOLLA D(450)	N/A	N/A	N/A	Yes	A remark.	N/A
	s	production	VARCHAR(450)						
	prodStatus	Status of production	VARCHAR(45)	N/A	N/A	N/A	No	Ongoing	N/A

Table Name: tblpromo

Related Table:

Description: This table contains the promos.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	promoID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	promoName	Promo name	VARCHAR(45)	N/A	N/A	N/A	Yes	Grand Opening	N/A

							Promo	
promoDescript	Promo description	VARCHAR(450)	N/A	N/A	N/A	Yes	Buy 1 free 1	N/A
ion							table	
promoStartDat e	Promo start date	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A
promoEnd	Promo End	VARCHAR(450)	N/A	N/A	N/A	Yes	2017-08-25	N/A
promolmage	Promo image display	VARCHAR(450)	N/A	N/A	N/A	Yes	Promo1.png	N/A
promoStatus	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Free 1 table	N/A

Table Name: tblsupplier

Related Table:

Description: This table contains the suppliers

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	supplierID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	supCompNam	Supplier company	VARCHAR(250)	N/A	N/A	N/A	Yes	FNC	N/A
	е	name							

	Supplier company		N/A	N/A	N/A	Yes	#111	N/A
supCompAdd	address	VARCHAR(100)					Gangnam	
							SOUKOR	
supCompNum	Supplier contact	VARCHAR(20)	N/A	N/A	N/A	Yes	786-9072	N/A
Supcomprium	number	V/((C))						
supContactPer	Supplier contact	VARCHAR(100)	N/A	N/A	N/A	Yes	Mr.Lee	N/A
son	person	VAICHAR(100)						
supPosition	Supplier contact	VARCHAR(45)	N/A	N/A	N/A	Yes	Manager	N/A
Supi Osition	postiion	VAIXOLIAIX(43)						
supStatus	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblunit_cat

Related Table: tblunitofmeasure,tblunitofmeasurement_category

Description: This table contains the category in which the unit of measurement falls.

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	unitcatID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	unitlD	ID of unit of measurement	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblunitofmeasure

FK		ID of unit of		N/A	N/A	N/A	Yes	1	Must exist in
	uncategoryID	measurement	INT(11)						tblunitofmeasureme
		category							nt_category
	unitcatStatus	Supplier contact number	VARCHAR(20)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblunitofmeasure

Related Table:

Description: This table contains the unit of measurements

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	unID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	unType	Type of unit of measurement	VARCHAR(50)	N/A	N/A	N/A	Yes	Feet	N/A
	unUnit	Unit of unit of measurement	VARCHAR(10)	N/A	N/A	N/A	Yes	ft	N/A
	unStatus	Status of record	VARCHAR(20)	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tblunitofmeasurement_category

Related Table:

Description: This table contains the categories of unit of measurements

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample	Validation
								Data	
PK	uncategoryID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
	uncategoryName	Category name	VARCHAR(50	N/A	N/A	N/A	Yes	Length	N/A
	uncategoryDescri ption	Category description	VARCHAR(50	N/A	N/A	N/A	No	A measure	N/A
	uncategoryStatus	Status of record	VARCHAR(20	N/A	N/A	N/A	Yes	Active	N/A

Table Name: tbluser

Related Table: tblcustomer,tblemployee

Description: This table contains the information of the users of the system

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	userID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
PK	userName	User name	VARCHAR(80)	N/A	N/A	N/A	Yes	1	N/A
	userPassword	User password	VARCHAR(45)	N/A	N/A	N/A	Yes	1	N/A

	userStatus	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A
	userType	Type of user	VARCHAR(45)	N/A	N/A	N/A	Yes	admin	
FK	userCustID	ID of customer	INT(20)	N/A	N/A	N/A	Yes	null	Must be existing in tblcustomer
FK	userEmpID	ID of employee	INT(11)	N/A	N/A	N/A	Yes	1	Must be existing in tblemployee
	dateCreated	Date created the user account	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A

Table Name: tblvariant_detail

Related Table: tblmaterial,tblmat_var

Description: This table contains the details of the material variants

Key	Field Name	Description	Data Type	Min	Max	Default	Required	Sample Data	Validation
PK	variantDetailID	ID of the record	INT(11)	N/A	N/A	1	Yes	1	N/A
FK	materialID	ID of material	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in tblmaterials
	variantCounter	Count of variant	INT(11)	N/A	N/A	N/A	Yes	1	N/A
FK	mat_varID	ID of material variant	INT(11)	N/A	N/A	N/A	Yes	Active	Must exist in tblmat_var

variantDetailStat	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	admin	N/A
us		7 (3) (10)						

3.4 ARCHITECTURAL DESIGN

3.4.1 INFORMATION SYSTEM ARCHITECTURE

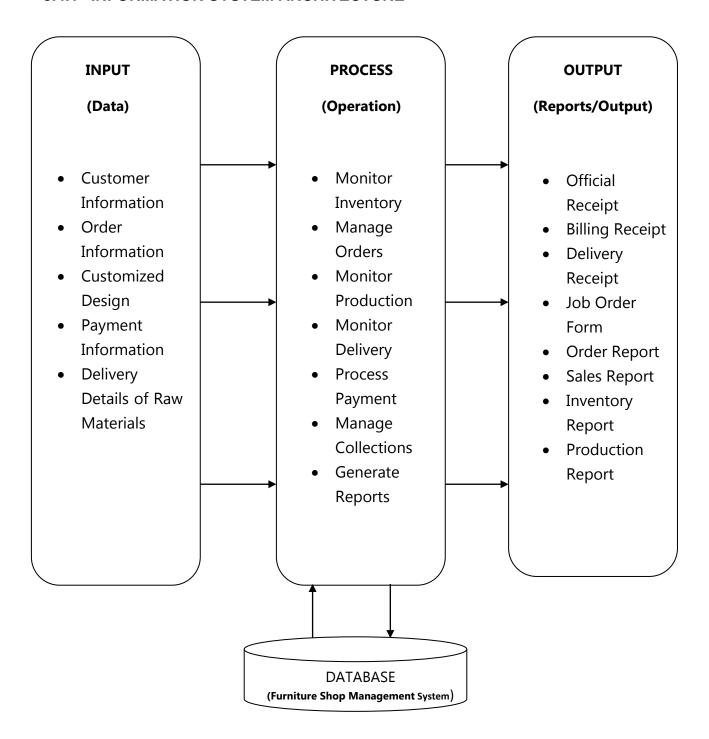


Figure 13. Information System Architecture

3.4.2 WEB ARCHITECTURE

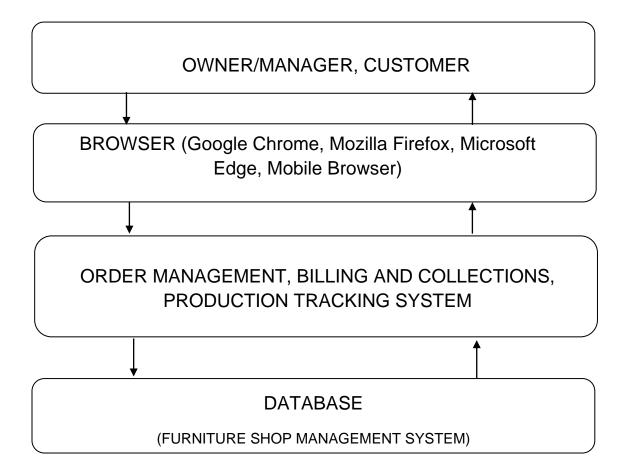


Figure 14. Web Architecture

The system will be accessible to the owner/manager of the Furniture Shop and the customers through the browsers as mentioned, Google Chrome, Mozilla Firefox, Microsoft Edge and mobile browsers. It's processes includes order management, billing and collections and production tracking. All the records gathered through this transactions will be saved in the database.

3.4.3 CLIENT/SERVER ARCHITECTURE

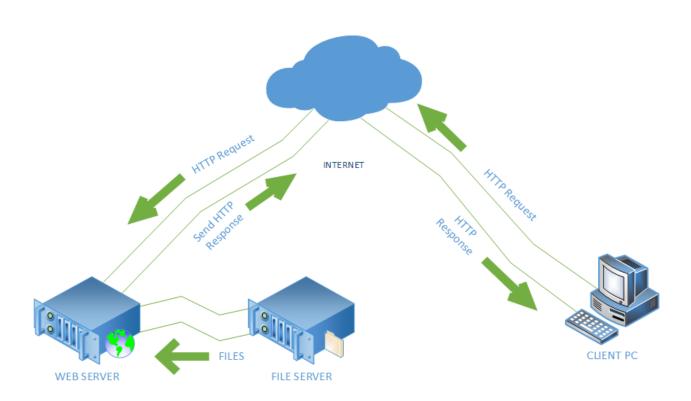


Figure 15. Client/Server Architecture

The File Server will store the files needed for the system. Web Server serves as the middle man wherein it processes requests via HTTP and distribute information on the internet. This information will be displayed as web pages to for the clients to interact.

3.4.4 NETWORK ARCHITECTURE

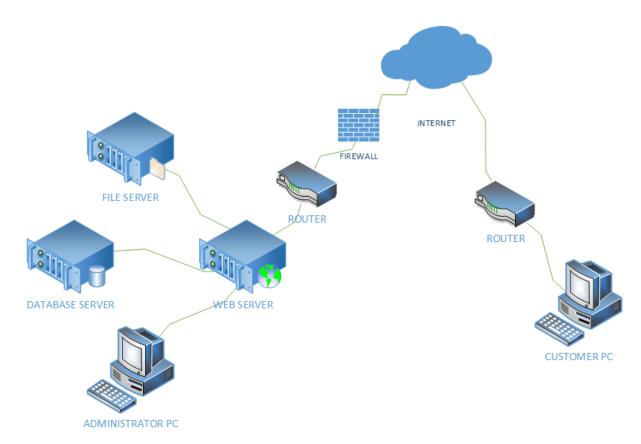


Figure 16. Network Architecture

Having a Web Application requires a quality network performance that will ensure the security of data and information of the project. Smooth transaction process will also be experienced. The diagram shows that the firewall will secure the safety of the server and avoid malwares. The files and database used in this system will come from the file server and database server and send to the web server, which serves the customer the web pages they will interact.

CHAPTER 4 IMPLEMENTATION PLAN

4.1 TESTING PLAN

4.1.1 TEST DESIGN PROCESS

After analyzing the developed system, to be able to detect the defects before deployment and implementation, the proponents choose to conduct four types of testing. It includes the following;

Unit Testing

Under the unit testing, testing of modules and components are done by the programmers themselves. The programmers validated the modules that they made.

System Testing

The system testing, the entire system should be tested as per the requirement and must cover all the parts of the system. A person other than the programmers tested the system to identify other errors and bugs.

Security Testing

The security testing, security is vital when it comes to e-commerce websites because it stores sensitive customer information that's why we require to conduct a security testing.

4.1.2 TEST EXECUTION PROCESS

Execute the test cases, report bugs, and capture information about the tests continuously, taking into account previous test results for each subsequent test. Capture and report information about the test just executed.

4.2. REQUIREMENTS PLAN

4.2.1 HARDWARE REQUIREMENTS

4.2.1.1 **SERVER**

Hardware Component	Specification
Processor	4 GHz, Intel Core i7
Installed Memory (RAM)	8.00GB or higher
Network	5Mbps
Hard Disk Drive	1TB or higher
Operating System	Windows 7 or higher

4.2.1.2 WORKSTATION

COMPONENT	SPECIFICATION
Operating System	Windows 7 or higher
Web Browser	Google Chrome, Mozilla Firefox,
	Microsoft Edge, Mobile Browser

4.2.2 SOFTWARE REQUIREMENTS

COMPONENT	SPECIFICATION
Language	PHP 7, HTML 5, CSS 3
Browser	Google Chrome, Mozilla Firefox,
	Microsoft Edge, Mobile Browser

4.2.2.1 OPERATING SYSTEMS

COMPONENT	SPECIFICATION
Operating System	Windows 7 or higher

4.2.2.2 DBMS

COMPONENT	SPECIFICATION
Database	MySQL

4.2.3 PEOPLEWARE (End Users, Systems Administration, Etc)

ACTOR	RESPONSIBILITIES
Furniture Shop	Administrator of the Furniture Shop Management
Owner/Manager	System. Head of the Furniture Shop. Manages
	transactions of the system.
Customer	Orders a furniture, can be from the brochures or
	sent customize design. Monitors production and
	delivery of his/her purchased order.

4.3 QUALITY PLAN

Quality plays a big role in considering a project successfully finished. To ensure the system's great performance, accuracy, reliability and usability, here are the plan followed:

- The system undergone series of test in order to ensure it is running smoothly and produces valid and reliable outputs
- People other than the proponents tried using the system to ensure the user friendliness of the system.
- The team conducted daily to weekly meetings in order for everyone to be updated on the project's status.
- The team communicates with each other and tells everyone the updates that they have done so far as well as the concerns and other ideas they have to ensure the project's quality.

4.4 SECURITY PLAN

SECURITY POLICIES	SECURITY FEATURES
User Policies	Users allowed to access the system
	will only be the owner/manager and
	any user that has confirmed his
	registration through the email

	confirmation feature.
Password Policies	Restriction of access of records for
	files containing confidential
	information. The system secures
	restriction of access from
	authenticated users only.
Internet Policies	The website has a feature of
	CAPTCHA that
	prevents bot from registering on the
	website.

4.5 SYSTEM MAINTENANCE AND SUPPORT PLAN

4.5.1 PREVENTIVE MEASURE PLAN

In order to attain a smooth transaction process of the system and avoid unnecessary errors, the proponents have acquired preventive measure plan that will help the users of the system, these are the following:

- Critical data and vital records should be backed up and sent off-site for storage.
- A necessarily proper training on how to use the system will be conducted for the users.
- The work areas are comfortable and safe.
- Back up files every night, to multiple locations.
- Install anti-virus, anti-malware and a firewall software.
- Do not click suspicious ads or emails.
- Read and apply instruction from the User Manual.

4.5.2 CORRECTIVE MEASURE PLAN

On the assumption of errors and failures, there are corrective measure to be executed upon the circumstances:

- Scan for viruses with the malware software installed on your PC.
- Retrieve files from the synced data from the trusted host server.

Contact a professional regarding the failure of the hard drive.

4.5.3. BACKUP AND RECOVERY PLAN

To secure the files and maintain the functionality of the system, it must have a backup plan. The proponents think of the following as backup and recovery plan:

Virus/Malware

In case of an attack of a malware, the system has installed antivirus software that will avoid the virus to spread.

• File Corruption

To secure files on the system, the proponents determine to have File Server Backup Software installed. To keep files from the transactions made in the system.

Database Backup

Nightly back up of database is stored in the system files. Furthermore, it is also being back up in the Database Server.

CHAPTER 5 RECOMMENDATION

Upon determining and evaluating every problems encountered by the business, the proponents affirm that the Furniture Shop Management System will be effective in helping the furniture shop from its tedious business process of managing orders and monitoring its production and delivery operation.

The system will be able to lessen the excessive use of papers, and the voluminous brochures. Charts of fabric are organized and stored in the system, wherein the customers can choose from the list of it. It also uses the proper forms needed for every transaction made that will decrease the possible rate of losing a data.

With the Furniture Shop Management System, the shop will have increase in sales because of the reachable way of ordering, through the website. Monitoring of the production and delivery will be easier for both the customer and the management. Queries and Reports will be automatically generated wherein they can track the progress of the business.

APPENDICES

DATA GATHERING INSTRUMENTS

The proponents used the following instruments in gathering data from the client to support the development of the project:

1. UNSTRUCTURED INTERVIEW

 The proponents initially conducted an unstructured interview on the day we found our client. This is the part where we asked them if they are alright with sharing information with us regarding out study and also where they introduced us to the basic in and outs of the business and what problems they encounter at times.

2. OBSERVATION

We, the proponents observed the shop situation every interview.
 We observe how they organize their brochures, their forms and how they interact with the client to further identify what problems they encounter and what solution we can provide them.

3. TRANSCRIBING

The proponents were given some documents and forms to study. We transcribe those documents and filter what data or information is needed the most. We got out form fields from these documents and forms.

CLIENT FORMS & REPORTS

Sold to: Rosa Address:	Sales Invoice une Herrardez Do	te: <u>Alexander 12,</u> 23/6 _ Contact No.: <u>0916 37370</u> 5
Ovantity 1 sala sut	Particular Hem Pasideña Jabic hold fani Color 19C 1 pe. lone seat 1 pe. Cerker Table 2 py lite Table 1 pet dining det	Received By: 10574111 January Received By: 10574111 January Signature over Printed Name

Sales Invoice Format

SI # 123 - ROSAKIO HERNANDEZ

1 set Lala set - Phanilera

Lalic: Seld Pani

Celan: 190

1 pe. Love Seat

1 pe. Center Table 22 X 42

2 per Dide Table 18 X 22

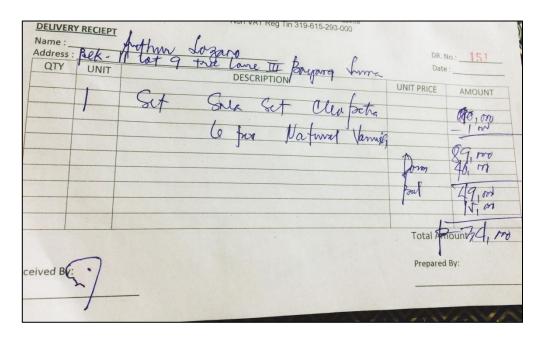
3 per Hirty Set w/8

3 per Hir Chair

Job Order Format

7411	UNII	rous for Strongwoode Subd British Order Order	UNIT PRICE	AMOUN
1	Set	More set manchers I som	72" (12"	170,000
		2 per code table 18" x32"	Down	100,000
1	Set	Plining Set wife 8 Chair		70,00
3	pu	Hi chan		
			Total Amou	nt
aived B	(-)		Prepared By:	

Delivery Receipt



Delivery Receipt

Payment of the f	ollowing:			
PARTICULARS Amount				
Cornart.				
		1	No	0001
The same of the sa			14.	0001
		OFFICIAL RECEIPT		
			Date	
Amount Due	200	DECEMEN EDOM		
Less: SC/PWD Discount	Principal	RECEIVED FROM		
TOTAL AMOUNT DUE	The state of the s	Address		
Payment in the	form of:	TINengaged in the Bu	siness Style of	
CASH		the sum of		
CHECK No.	24747		(Pho Tell 1	or 7.0
Bank			(File)	
TOTAL AMOUNT DUE	on Itte 10	In full() partial () payment of		
	CAN THE STATE OF	1 REVINE LOND		
0 Bkit 50x2 001-500 BIR ATP 1AU0001393828			Issued by:	
ate Issued 8/17/15 valid AKEVIEW PRINTING/TIN 18	1.222,770,000 N			
olentino East, Tagaytay City 2 (046) 4132576 VELYN G. MALLARI - Prop.		Signature	Authorized	Signature
Printers A.N. 54AMP201			lid for Claiming Input Ta	oxes"
Date Issued 12/23/13	300000000	This Official Receipt shall be valid to	for five(5) years from the	e date of ATP.

Official Receipt

Furniture Name	Date Sold	Quantity	Unit Cost	Total
Rocking Chair Regular	12/8/2016	2	15,000	30000.00
Manillenia Divan	12/25/2016	1	5,000	5000.00
Manillenia (Sala Set)	12/25/2016	1	100,000	100000.00
Cleopatra (Sala Set)	12/31/2016	1	150,000	150000.00
			Grand Total:	285,000

Sales Report

LIST OF TABLES

Table 1 List of Forms	7
Table 2 List of Reports	12
Table 3 Business Requirement	15
Table 4 Business Policies	16
Table 5 Problems and Requirements	18
Table 6 Feature-Requirements Matrix	22
Table 7 List of Classes	47

LIST OF FIGURES

Figure 1 Waterfall Model with Feedback	5
Figure 2 Sample Sales Invoice Format	8
Figure 3 Sample Job Order Format	9
Figure 4 Sample Delivery Receipt	10
Figure 4.1 Sample Delivery Receipt	10
Figure 5 Sample Official Receipt	11
Figure 6 Sample Sales Report Format	12
Figure 7 Context Diagram	13
Figure 8 Level 1 Data Flow Diagram	14
Figure 9 Fishbone Diagram	17
Figure 10 Top Level Use Case	23
Figure 11 Manage Order Class Diagram	48
Figure 11.1 Monitor Inventory Class Diagram	49
Figure 11.2 Monitor Production Class Diagram	50
Figure 11.3 Process Payment Class Diagram	51
Figure 11.4 Manage Collections Class Diagram	52
Figure 11.5 Monitor Delivery Class Diagram	53
Figure 12 Activity Diagram	58
Figure 13 Information System Architecture	104

Figure 14 Web Architecture	105
Figure 15 Client/Server Architecture	106
Figure 16 Network Architecture	107

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EDUCATIONAL BACKGROUND

2014 – Present	Bachelor of Science in Information Technology Polytechnic University of the Philippines Sta. Mesa, Manila
2010 – 2014	Batasan Hills National High School Batasan Hills, Quezon City
2004 – 2010	Batasan Hills Elementary School Batasan Hills, Quezon City

CORE QUALIFICATIONS

- Knowledgeable with the following:
 - o PHP, Java Script, CSS, HTML, jQuery, Bootstrap
 - Database Administration (MySQL Workbench, MS SQL Server, PHPMyAdmin)
- Basic knowledge with the following:
 - o COBOL, C, C#, Java SE, Java EE
 - Adobe Photoshop
 - Adobe Flash
- Proficient in Microsoft Office Tools (MS Word, MS Excel, MS PowerPoint).
- Possesses good communication skills.
- Dedicated and hardworking in accomplishing tasks given.
- Flexible in working with a team.
- Adaptable and eager to learn.

CERTIFICATES AND ACHIEVEMENTS

- Dean's Lister 2nd Year 1st Semester **June 2015**
- Proxor Rating 3 SDE Java Certification September 2016
- DOST-SEI JLSS Scholar Year 2016

AFFILIATION

PUP Institute of Bachelors in Information Technology Studies (IBITS)
 2014 – Present
 Member

SEMINARS ATTENDED

- 5th IT Research Forum
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- iBITS Mid-Year Seminar 2017
 Polytechnic University of the Philippines 2017

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EDUCATIONAL BACKGROUND

2014 – Present Bachelor of Science in Information Technology

Polytechnic University of the Philippines

Sta. Mesa, Manila

2010 – 2014 San Jose National High School

San Jose, Rodriguez, Rizal

2004 – 2010 San Mateo Elementary School

Sta. Ana, San Mateo, Rizal

CORE QUALIFICATIONS

- Basic knowledge with the following:
 - o C, Java, C#, COBOL
 - Web Design
 - Database (MS Access, MySQL Workbench, PHPMyAdmin)
 - Adobe Photoshop and Adobe Premiere
- Proficient in MS Office Applications.
- Experienced in Technical Documentation.
- Experienced in Quality Testing.
- Possesses good communication and analytical skills.
- Dedicated and hardworking in accomplishing tasks given.
- Flexible in working with a team.
- Adaptable and eager to learn.
- Self-motivated, resourceful and efficient.

ORGANIZATION

PUP Institute of Bachelors in Information Technology Studies (IBITS)
 2014 – Present
 Member

SEMINARS ATTENDED

• **5**th **IT Research Forum**Polytechnic University of the Philippines 2017

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2004 – 2010 Sto. Niño de Antipolo School

Road 18, COGEO Village, Antipolo City, Rizal

CORE QUALIFICATIONS

- Good computer skills
- Good communication skills
- Ability to multitask
- Efficiency and Attention to details
- Willing to serve others
- Ability to adapt to different environments and situation
- Web Development

Skills and Tools: HTML, CSS, JavaScript, JQuery, PHP, Laravel Framework, and MySQL

• Desktop Development

Skills and Tools: C, COBOL, Java, C#, and Microsoft SQL Server

Mobile Development

Skills and Tools: Android Studio

Basic knowledge about ROM porting and ROM modification.

Others

- Strong knowledge about Hardware and Software configuration and troubleshooting.
- Proficient in Adobe Photoshop and Microsoft Office.
- Average knowledge about operating systems and networking.

CERTIFICATES AND ACHIEVEMENTS

- iSeminar Event Organizer
- Proxor Rating 3 SDE-JAVA (Gurango Software Corporation)
- 2015 2016 College Scholar (Dean's Lister)
- iBITS iVote Online Election Assistant
- College Academic Contest Participant
- Experiencing ICT in Web Development 1

ORGANIZATION

PUP Institute of Bachelors in Information Technology Studies (IBITS)
 2014 – Present
 Member

SEMINARS ATTENDED

• iSeminar: Laravel and The Future of Digital Forensics
Bulwagang Balagtas, NALLRC

PUP, Sta. Mesa, Manila

September 16, 2017

Career Talk 2017

Bulwagang Balagtas, NALLRC PUP, Sta. Mesa, Manila September 12, 2017

• 5th IT Research Forum

Bulwagang Bonifacio, NALLRC PUP, Sta. Mesa, Manila March 6, 2017

• 4th IT Research Forum

Claro M. Recto Hall PUP, Sta. Mesa, Manila March 7, 2016

• The Present and Future of COBOL

5th Floor, South Wing, Main Bldg. PUP, Sta. Mesa, Manila October 16, 2015

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2014 – Present Bachelor of Science in Information Technology

Polytechnic University of the Philippines

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2010 – 2014 Jose Panganiban National High School
 2004 – 2010 Jose Panganiban Elementary School

SUMMARY OF QUALIFICATIONS

- Proficient in HTML, CSS, PHP, javaScript, jQuery, Ajax, Android Programming and MySQL,
- Knowledgeable in C,C++,C# and JAVA,
- Beginner in PHP Laravel Framework, basic Ruby and Phyton
- Computer Literate: Microsoft Office (Word, Excel, Powerpoint)

ORGANIZATION

PUP Institute of Bachelors in Information Technology Studies (IBITS)
 2014 – Present
 Member

SEMINARS ATTENDED

- 5th IT Research Forum
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 2017
- iBITS Mid-Year Seminar 2017
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	Sta. Mesa, Manila
2010 – 2014	Parang High School
2004 – 2010	Saint Mary Elem. School

SUMMARY OF QUALIFICATIONS

- Can communicate using English and Filipino.
- Can work under pressure.
- Willing to learn.
- Familiar with programming languages such as PHP, Java, JavaScript, C++, and C#.
- Familiar in web development tools such as HTML, CSS, and Bootstrap.
- Familiar with MySQL.
- Knowledgeable in Microsoft Office Suites (Word, PowerPoint, Excel, etc.).
- Knowledgeable in Multimedia tools such as Adobe Photoshop and Sony Vegas Pro.

ORGANIZATION

PUP Institute of Bachelors in Information Technology Studies (IBITS)
 2014 – Present
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2010 – 2014	Benigno "Ninoy" S. Aquino High School Comembo, Makati City
2004 – 2010	Pembo Elementary School Pembo, Makati City

CORE QUALIFICATIONS

> TECHNICAL SKILLS

- Programming (PHP, CSS, Javascript, C#, COBOL)
- SQL Scripting
- System Analyst
- System Test
- Project Management
- Business Analyst Skills
- Graphics designing(Adobe Photoshop, Adobe Flash)

> PROFESSIONAL STRENGTH

- NC II Passer Computer Hardware Servicing (March 2014)
- Proxor Rating 3 SDE-Java (September 2016)
- · Ability to work in a team
- Leadership Skills
- Communication Skills
- Critical thinking

ORGANIZATION

PUP Institute of Bachelors in Information Technology Studies (IBITS)

2014 – Present Member

SEMINARS ATTENDED

CCIS@29: The Journey to Success

(Typography and Adobe Lightroom) February 10, 2015

➢ Block the Hack

(Association for Computer Intelligence Integration Cyber Security Seminar) January 29, 2016

> 4th University-Wide IT Research Forum

(Thesis Project Exhibition) March 7, 2016

> 5th University-Wide IT Research Forum

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