

# REPUBLIC OF THE PHILIPPINES POLYTECHNIC UNIVERSITY OF THE PHILIPPINES COLLEGE OF COMPUTER AND INFORMATION SCIENCES STA. MESA, MANILA



# **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

# Submitted by:

Amarilla, Cyrene Jane B.
Coronado, Aira Marie B.
Efa, Sean Lester A.
Estores, Elissa Joy P.
Lozano, Mariano III S.
Publico, Mark Joseph B.

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# **APPROVAL SHEET**

Approved by the c	ommittee on Oral Examina	tion with the grade of
		Examiners:
		Prof. Monina D. Baretto
		Prof. Maria Esperanza H. Reyes
Accepted in purpose in Information Technol		degree of Bachelor of Science in
	Dr. Gisela May A.	
	Dean, CCIS	

# **RECOMMENDATION SHEET**

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

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Prof. Alex B. Uy

Faculty-In-Charge

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#### **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

A Furniture Shop now stands on it's 36<sup>th</sup> 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. One of the owners, proposed the idea of making furniture shop to her husband because she herself is a daughter of a furniture maker. She 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

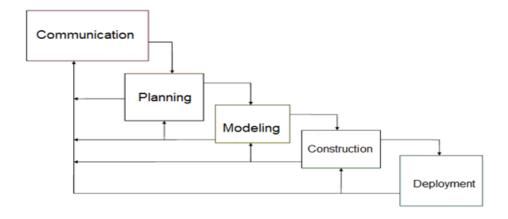


Figure 1. Waterfall Model with Feedback

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

		DELIVERY RECEIP	Т	
Name:	Ros	ario Hernandez	DR. No	01
Address:	#99	99 Dela Cruz Street Quezon City	Date:Ja	nuary 2017
QTY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
1 :	Set	Sala Set Manillenia	170,000	170,000
		1 Love Seat 22x42"		
		2 pc side table 18x22"	*Downpayment	100,000
				PHP 7000
			TOTAL AMOUNT	
Receiv	ed By:		Prepared By:	
Α			Α	

Figure 4. Sample Delivery Receipt

		DELIVERY RECEIP	T		
Name:	Ros	sario Hernandez Jr.		DR. No. 0	01
Address:	Blk	. 11 Dela Cruz Street Quezon City		Date: Ja	nuary 2017
QTY	UNIT	DESCRIPTION	UN	NIT PRICE	AMOUNT
1	Set	Sala Set Cleopatra	90,00	00	90,000
		6 Natural Varnish			-1,000
					89,000
			*Dov	vnpayment	40,000
			Balar	nce	49,000
					15,000
				PHP	34,000
			TOTA	AL AMOUNT	
	ived By:		Prepa	ared By:	
Α			Α		

Figure 4.1 Sample Delivery Receipt

Payment of the f	ollowing	<b>j</b> :	
PARTICULARS	Amou	nt	
27/14			
31 3 Las 0.			
	-		OFFICIAL RECEIPT
			Date
Amount Due	DK/III		RECEIVED FROM
Less: SC/PWD Discount	Par II	16.	
TOTAL AMOUNT DUE			Address
Payment in the form of:			TINengaged in the Business Style of
CASH			the sum of
CHECK No.	79715	7	(Php 7- 1) (1 5)
Bank	1115	W	
TOTAL AMOUNT DUE	on Illa	10	In full( ) partial ( ) payment of
	AAH IT	3/1/	+ Arline Lately
			Sr Citizen TIN Issued by: OSCA/PWD ID No.
			Signature Authorized Signature
			"This Document is not Valid for Claiming Input Taxes"  This Official Receipt shall be valid for five(5) years from the date of ATP.

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

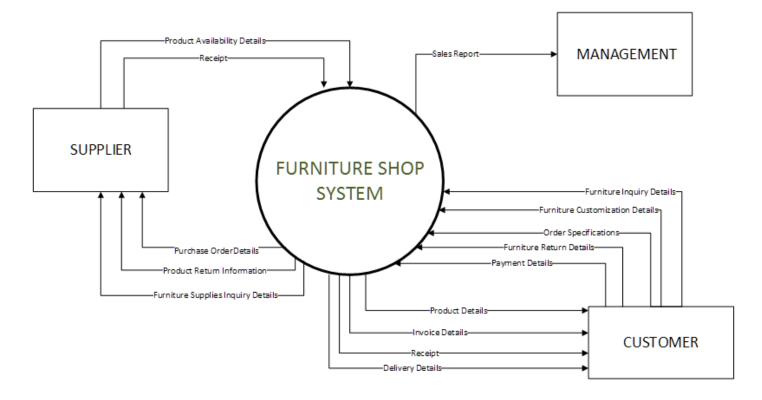


Figure 7. Context Diagram

#### 2.2.1.2 LEVEL 1 DFD

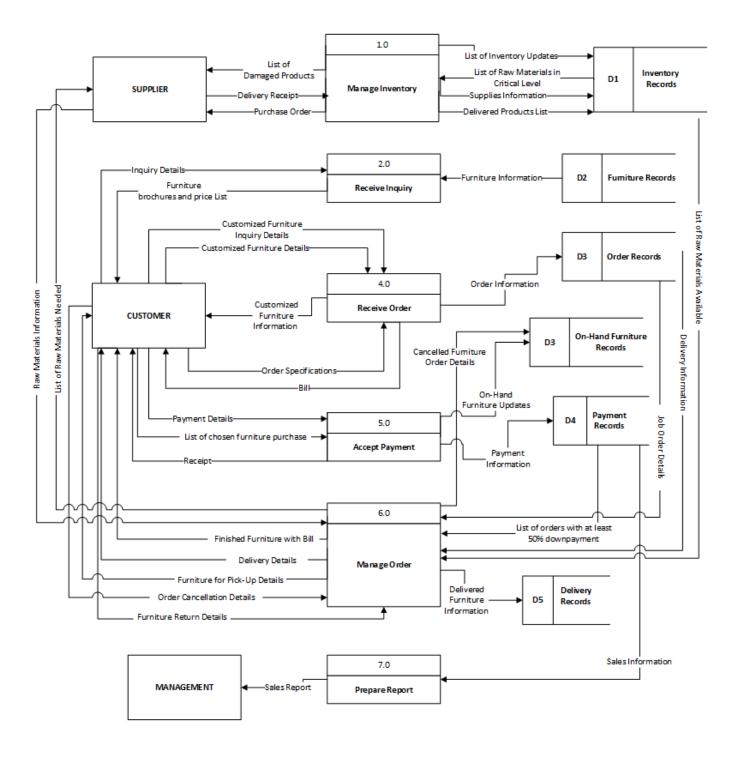


Figure 8. Level 1 Data Flow Diagram

# 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

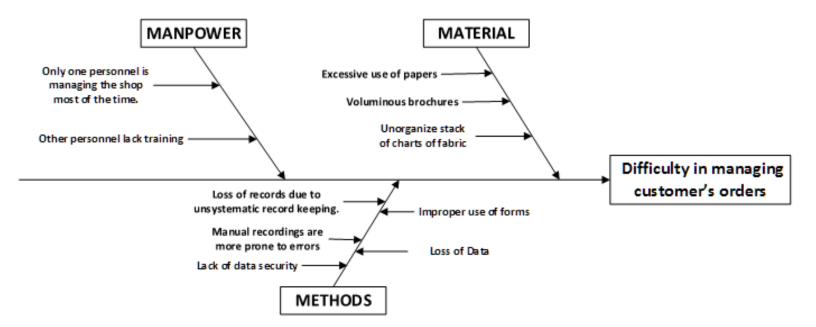


Figure 9. Fishbone Diagram of the Furniture Shop

# 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.	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	✓
FEAT2. Tracking of production.	✓	✓	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>
FEAT3.  Tracking of delivery.	✓	✓	✓	✓		✓	<b>√</b>
FEAT4.  Inventory of Raw  Materials.	✓	✓	✓	<b>√</b>			✓

<b>FEAT5.</b> Customization of designs.	✓	✓		✓	✓	✓	<b>√</b>
FEAT6.							
Ability to produce		✓	✓	✓			<b>√</b>
reports.							,

Table 6. Feature-Requirements Matrix

## 3.2 FUNCTIONAL SPECIFICATION

#### 3.2.1 SYSTEM BOUNDARIES

## 3.2.2 SYSTEM USE CASE DIAGRAM

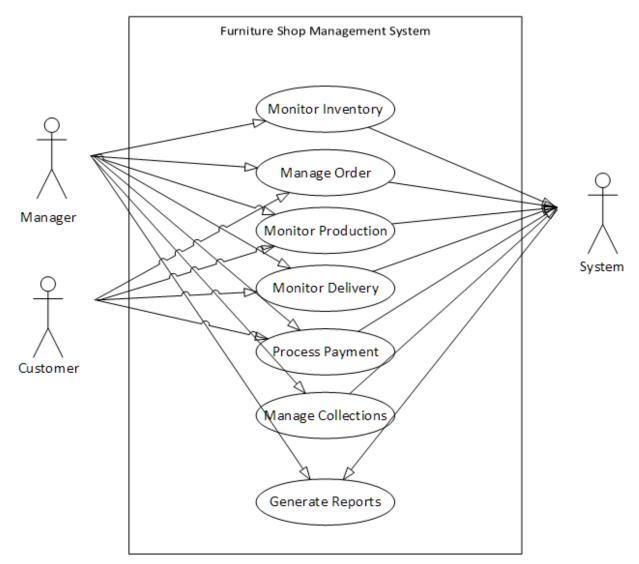
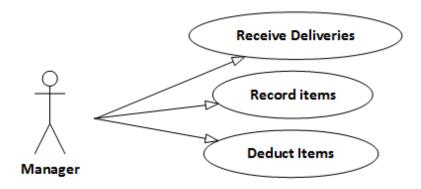
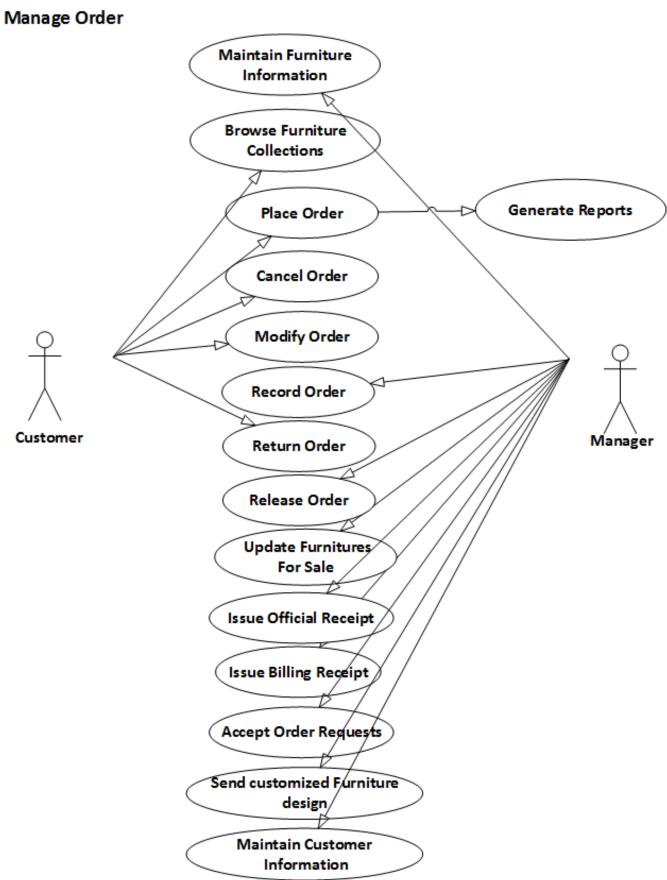


Figure 10. Top level Use case

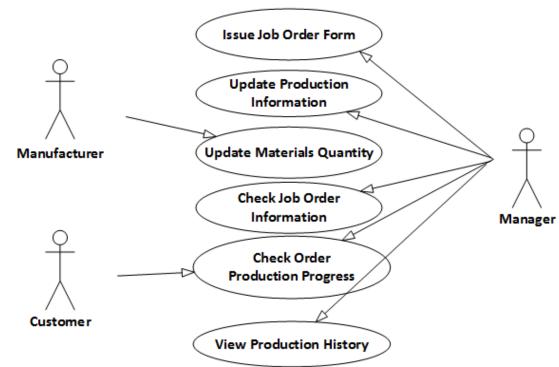
# 3.2.3 DETAILED PER USE CASE

# **Monitor Inventory**

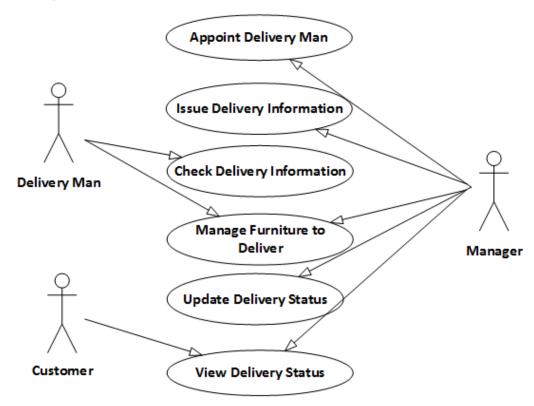




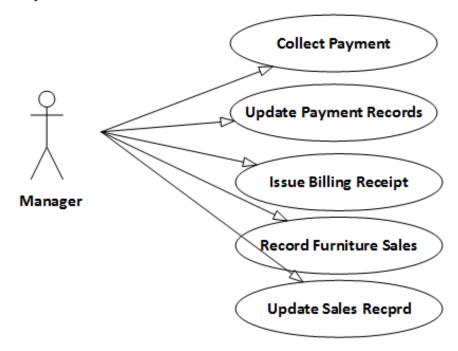
#### **Monitor Production**



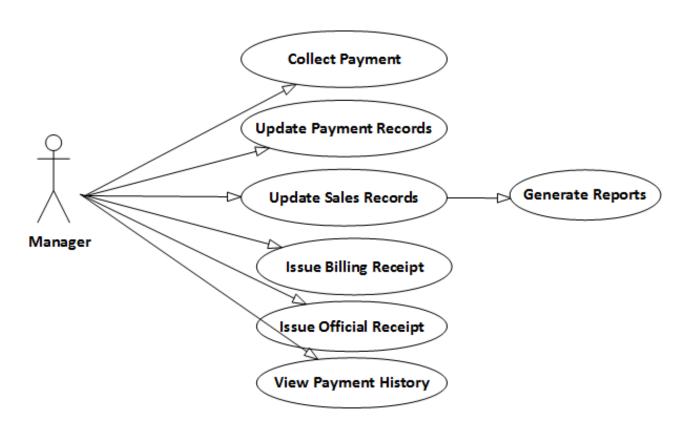
# Monitor Delivery



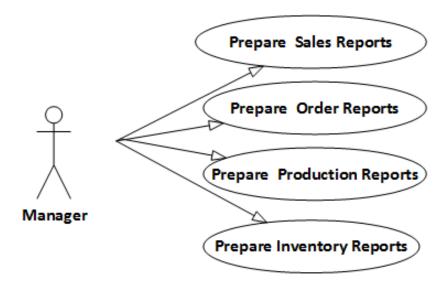
# **Process Payment**



# **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.

DACIC 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 Furnit	ure Information	
Admin accesses products.	Displays furniture details.	
Click update button.	4. 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.	
Click Deactivate button	10. Deactivates the existence of a	
	furniture.	
Browse Furniture Collections		
Admin accesses Order	Displays the products being	
Management	sold.	
3. Click view button.	4. 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	l 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 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.	
Dagar	d Ordor	
Record Order		
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	Display list of return orders and	

transaction.	its status.	
3. 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 Fur	niture 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 Billi	ng Receipt	
Admin access Orders	<ol><li>List of orders withing bills must</li></ol>	
	be displayed.	
3. 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.	
3. Click save button	4. Saves information to the	
	database.	
5. Click Print button	6. Official receipt must be	
	produced.	
Accept Order 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	

1.	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.
1	Click 'Print Job Order'	F	Job Order Form must be
4.	Click Fillit Job Order	5.	
			issued
	Undete Dredese	tion Informat	!a.a
	Update Product		
1.	Admin accesses	2.	Orders that are
	Production Tracking in		undergoing or pending for
	Transactions.		production is displayed.
3.	Click View Details	4.	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

	the production has gone	
	to.	
Update Materials Quantity		
Click an on-going production	2. Displays information about	
	the production.	
	3. Enables user to deduct or	
	add a material quantity per	
	phase.	
Check job order information		
Click an order production	2. Job order must be produced.	
finished.		
Check production Progress		
Click Production Tracking	2. Displays list of production and	
	its information.	
View Production History		
1. 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.	
	<ol><li>Display's list of materials</li></ol>	
	needed.	
4. Click 'Print Job Order'	5. Job Order Form must be	
	issued	
Issue Deliver	y Information	
Admin click the 'Releasing of	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 Deli	very Status	
Click an order to be updated.	2. Shows form that must be fill up	
	by the user to be able to update	
	a delivery status.	
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'	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 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			
Click Bill button from the	Billing receipt is produced.		
Collections transaction.			
Issue Official Receipt			
Click Payment button			
Fill up Payment form and input			
the amount paid.			
Click Save button	Official receipt must be produced		
	and ready to be printed.		
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	Displays list of sales records     within the day.	
5. Choose monthly in frequency	Display list of sales records     within the month.	
7. Choose annual in frequency	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 Reports.	Displays list of Order records     depending on the frequency     selected.	
3. Choose daily in frequency	<ol> <li>Displays list of Order records within the day.</li> </ol>	
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
ORDERS	Contains the orders made by the
	customers
PACKAGE INCLUSIONS	Contains the products included in
	every packages.
PACKAGE	Contains the packages available in the
	shop.
PAYMENT DETAILS	Contains the payments made by the
	customer
PENALTY	Contains the penalties of the shop
PHASES	Contains the phases a furniture must
	undergo under the production
PRODUCT IMAGES	Contains the other images of the
	product
PROD INFO	Contains the production information of
	a product according to phase
PRODUCT MATERIALS	Contains the materials needed in
	every production phase of the product
PRODUCTS ON PROMO	Contains the materials needed in
	every production phase of the product
PRODUCT	Contains the furniture that the shop
	can make.
PRODUCTION	Contains the production information of
	every ordered furniture
PRODUCTION PHASE	Contains the information of production
	per phases of production.
PROMO CONDITION	Contains the condition of a promo
PROMO PROMOTION	Contains the promotion or the
	incentive of a promo.
PROMO	This table contains the promos.

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

# 3.3.1.2 CLASS DIAGRAMS (PER USE CASE BY SYSTEM)

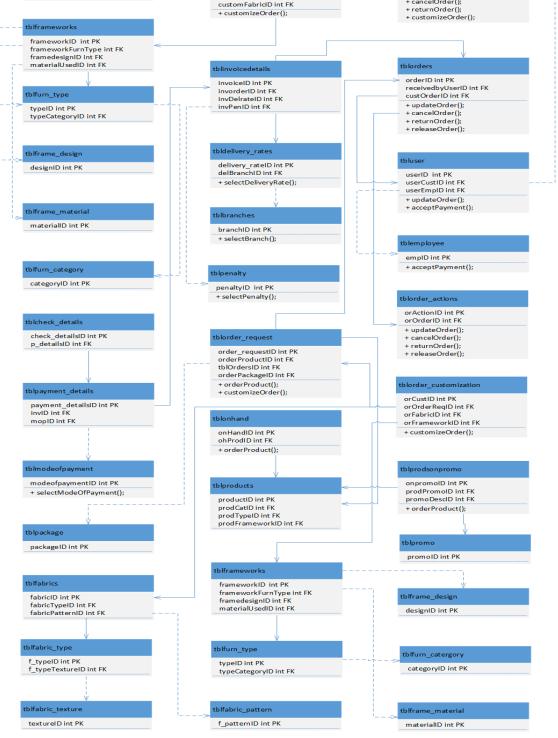


Figure 11 Manage Orders Class Diagram

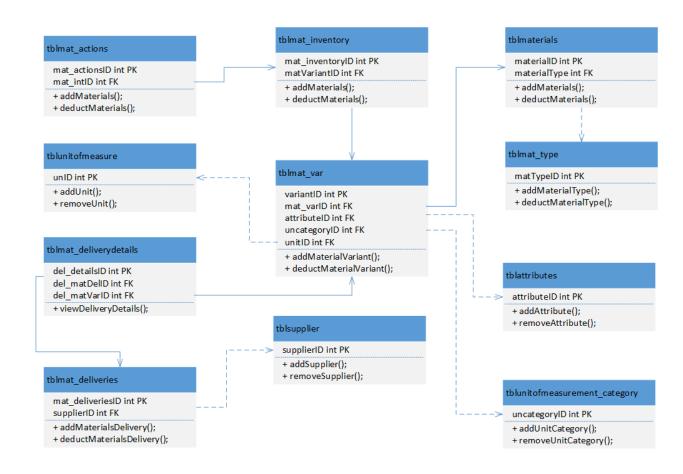


Figure 11.1 Monitor Inventory Class Diagram

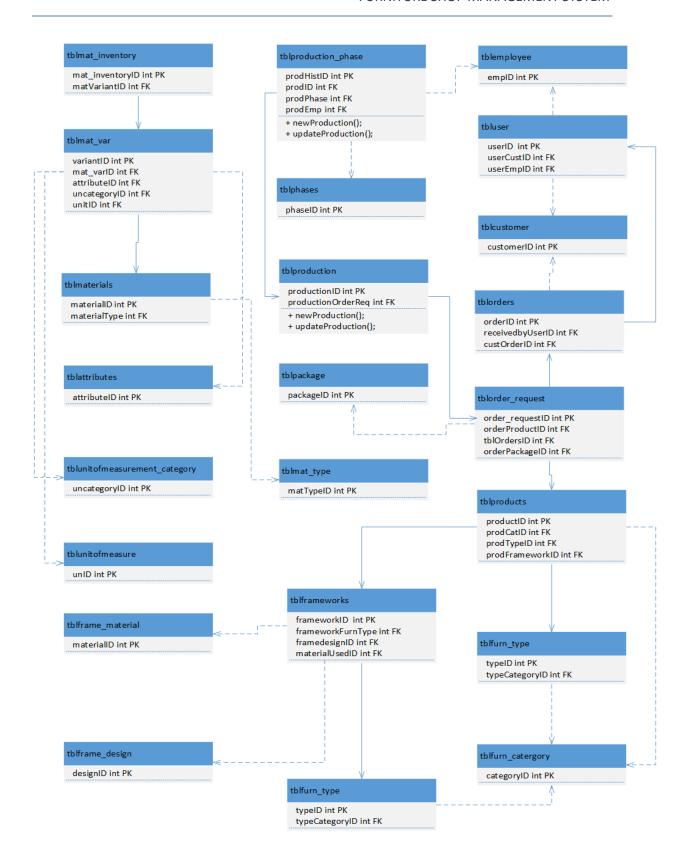


Figure 11.2 Monitor Production Class Diagram

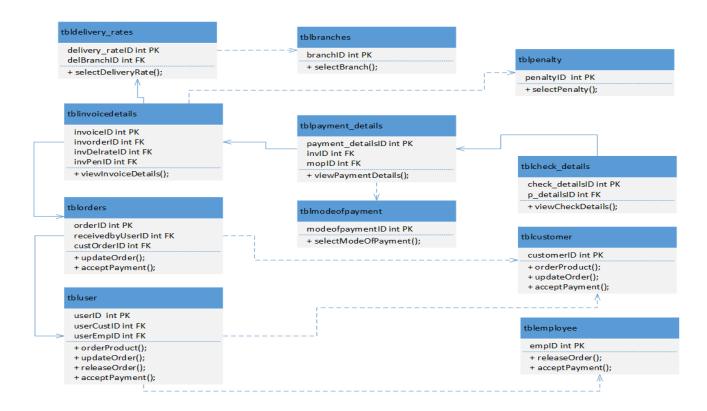


Figure 11.3 Process Payment Class Diagram

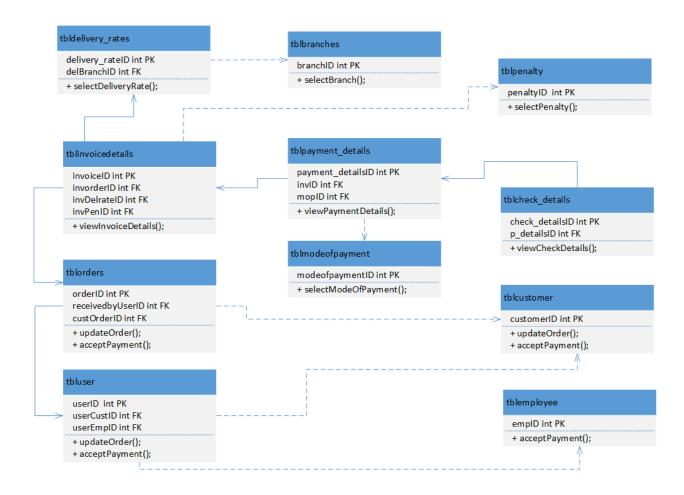


Figure 11.4 Manage Collections Class Diagram

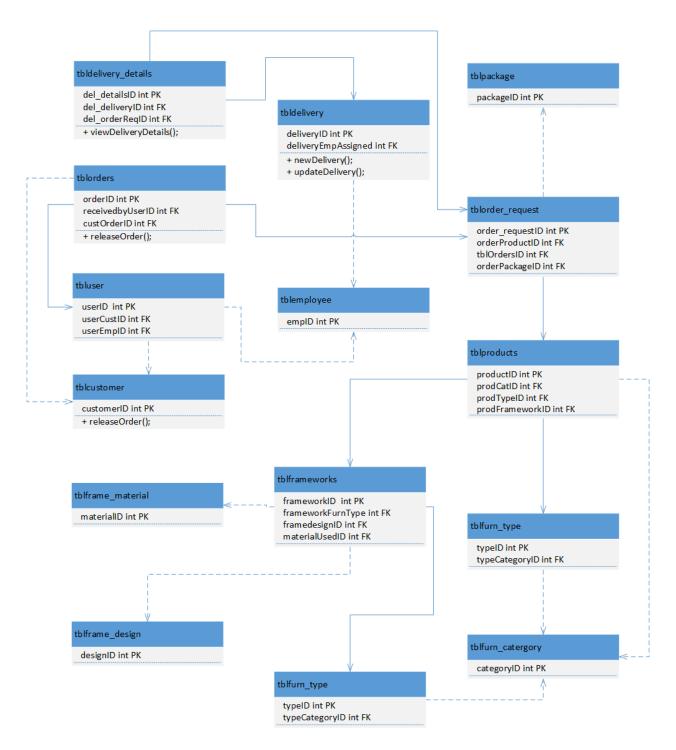
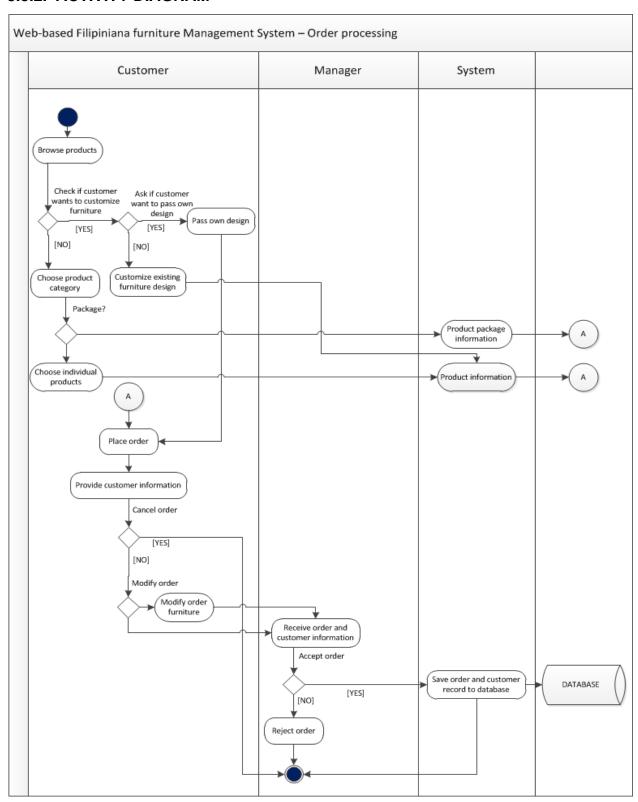
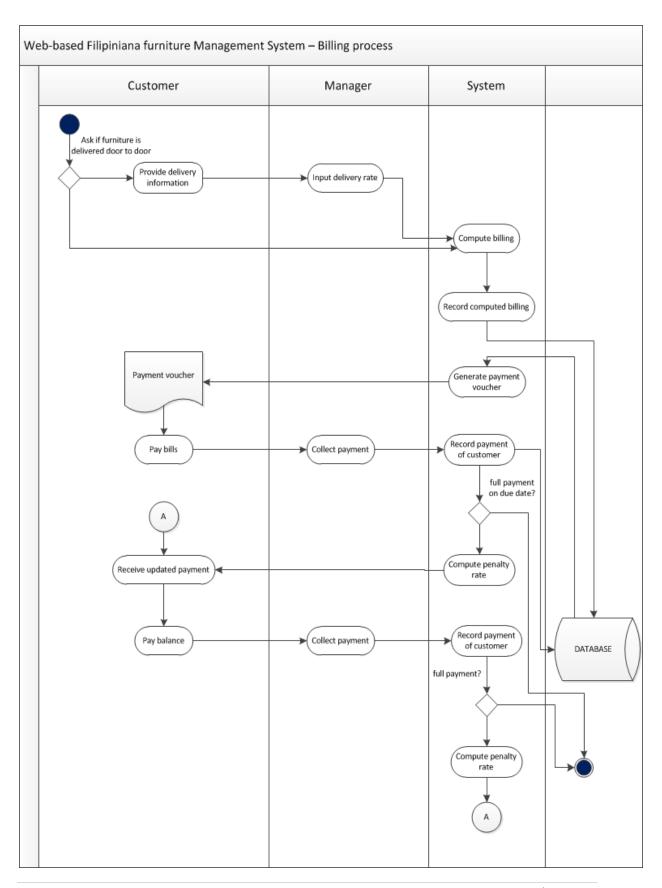
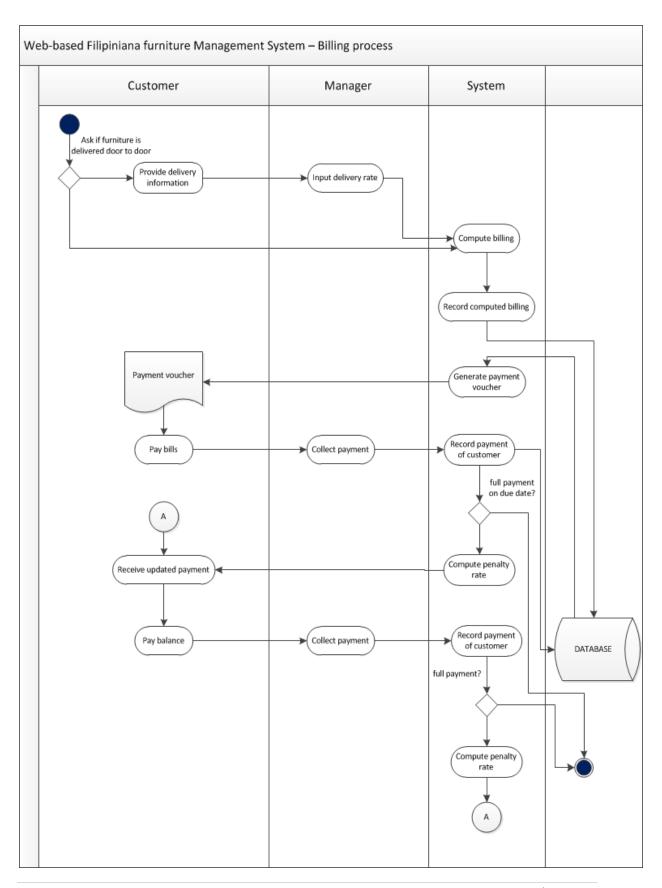


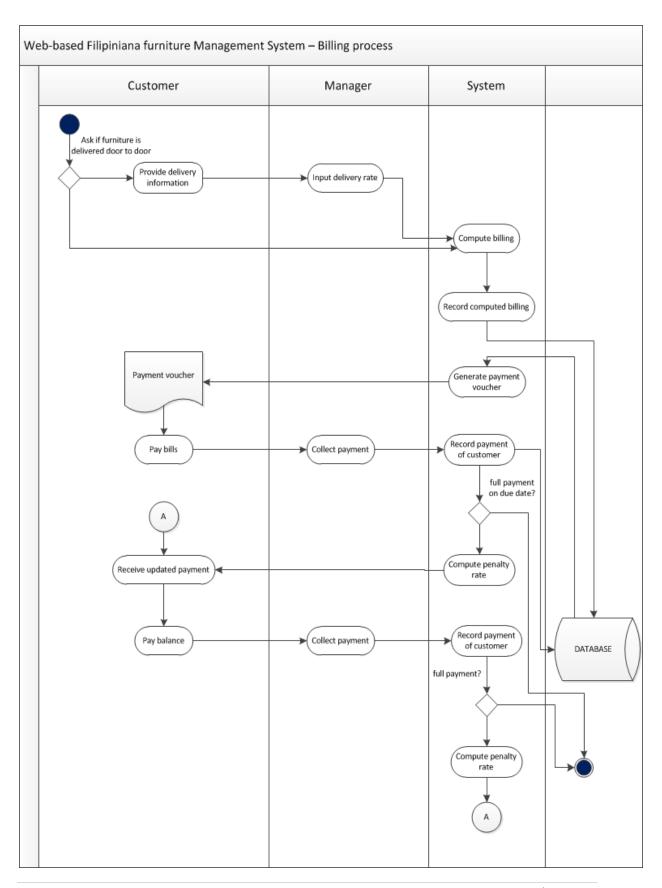
Figure 11.5 Monitor Delivery Class Diagram

### 3.3.2. ACTIVITY DIAGRAM









# **Production Tracking**

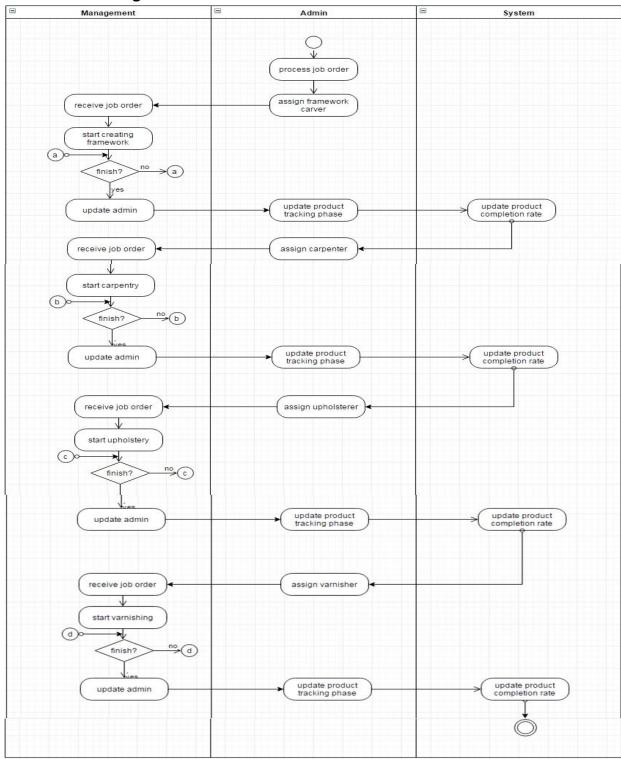
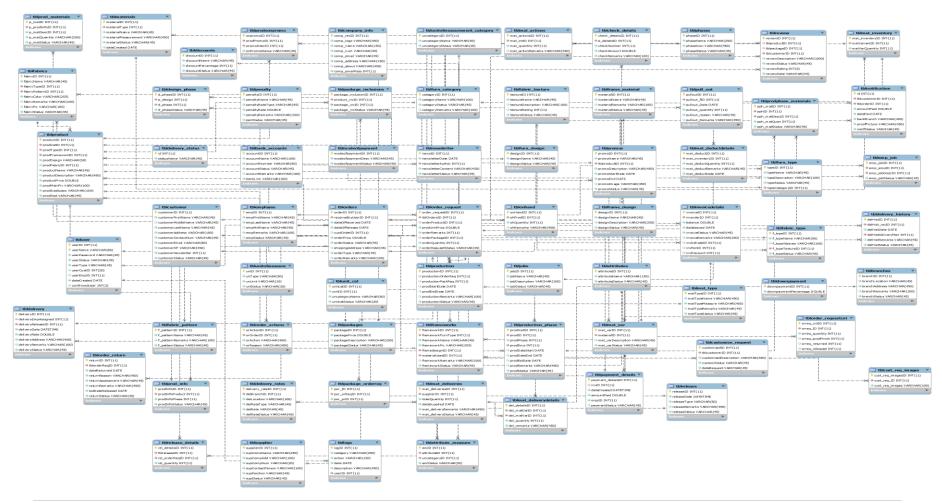


Figure 12. Activity Diagram

#### 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 record	INT(11)	N/A	N/A	1	Yes	1	N/A
	branchLocation	Location of the branch	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Bacoor	N/A
	branchAddress	Specific address of the branch	VARCHAR(4 50)	N/A	N/A	N/A	Yes	#23 Talaba II Aguinaldo Hi- way Bacoor	N/A

							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)						

customerEmail	The customer's	VARCHAR(8	N/A	N/A	N/A	Yes	rhodorabbcc@yaho	N/A
CustomerEmail	email	0)					o.com	
	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	customizedID	ID of the customization	INT(11)	N/A	N/A	1	Yes	1	N/A
		record							
FK		ID of the		N/A	N/A	N/A	Yes	2	Must exist
	accountdetailsID	customer who	INT(11)						in the
	accountactansis	request the							tblcustomer
		customization							
	customizedPic	Filename of	VARCHAR(4	N/A	N/A	N/A	No	Cust.jpeg	N/A
	CustoffilzedFic	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 record	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in the tblbranches
	delLocation	Location of the delivery	VARCHAR(1 00)	N/A	N/A	N/A	Yes	Bacoor	Must exist in the tblorder_request
	delRateType	Rate Type can either be percentage or a fixed amount. Percentage pertaining to the percentage of the total price.	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Amount	N/A
	delRate	Rate of the delivery	VARCHAR(4 5)	N/A	N/A	N/A	Yes	1000.00	N/A
	delRateStatus	Status of the delivery rate	VARCHAR(4 5)	N/A	N/A	N/A	Yes	Active	N/A

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	Validation
								Data	
PK	id	ID of the delivery	Int(11)	N/A	N/A		Yes	1	N/A
		details							
	statusName	Name of the delivery	Varchar(45)	N/A	N/A		Yes	Pending	N/A

	- 4 - 4				
	SUIS				
	otatao.				

**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)			

**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
	еттреттыматте	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
	empiviidiname	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	
	Gilipotatus		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	fabricTypeI 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 Signib	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	typeCategoryl 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
	Jobranic		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	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	INT(11)	N/A	N/A	1	Yes	1	N/A
	aoi_aotalioi2	record							
FK	del_matDelID	ID of delivery	INT(11)	N/A	N/A	N/A	Yes	2	Must exist in
		record	()						tblmat_deliveries
FK		ID of material		N/A	N/A	N/A	Yes	1	Must exist in
	del_matVarID	variant	INT(11)						tblmat_var
		delivered							
	del_quantity	Quantity	INT(11)	N/A	N/A	N/A	Yes	100	N/A
		delivered	()						
	del_remarks	Remarks	VARCHAR(4	N/A	N/A	N/A	No	Active	N/A
			50)						

**Table Name: tblmat\_inventory** 

Related Table: tblmat\_var

Description: This table contains the quantity of materials.

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
	attriboodriter	attributes							
	mat_varStatus	Status of record	VARCHAR(4	N/A	N/A	N/A	Yes	Active	N/A
	mat_varotatus		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	INT(11)	N/A	N/A	1	Yes	1	N/A
	order_requestrb	record							
FK	orderProductID	ID of the	INT(11)	N/A	N/A	N/A	No	1	Must exist in
	orden roddenb	product							tblproducts
	productUnitPrice	Price of the	DOUBLE	N/A	N/A	N/A	Yes	50000	N/A
	productoriiti nee	furniture	DOOBLE						
FK	tblOrdersID	ID of order	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in
	13.0.000								tblfabrics
	orderRemarks	Remarks	INT(11)	N/A	N/A	N/A	No	1	Must exist in
			()						tblframeworks
FK	orderPackageID	ID of the	INT(11)	N/A	N/A	N/A	No	1	Must exist in
	January Sonagoiz	package							tblpackage
	orderQuantity	Quantity	INT(11)	N/A	N/A	N/A	No	100	N/A

orderRequestSt	Status of order	VARCHAR(45	N/A	N/A	N/A	Yes	Pending	N/A
atus	request	)						

## 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
orderotatus	order	)						
	Shipping	VARCHAR(45	N/A	N/A	N/A	No	100	N/A
shippingAddress	Address of the	)						
	order	,						
orderType	Type of the	VARCHAR(45	N/A	N/A	N/A	Yes	Pending	N/A
order rype	order	)						
orderRemarks	Remarks	VARCHAR(10	N/A	N/A	N/A	No	Pending	N/A
ordon tomano		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 nID	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/44)	N/A	N/A	1	Yes	1	N/A
	packageID	record	INT(11)						
	nackaga Prica	Price of the	DOUBLE	N/A	N/A	N/A	Yes	10000	Must exist in
	packagePrice	package	DOUBLE						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							
	nackaga Status	Status of	\/ABCHAB(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								tblphases
	prodInfoStat	Status of record	VARCHAR(45)	N/A	N/A	N/A	Yes	Active	N/A
	us		7711(01)711((40)						

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	prodEmp	ID of employee	INT(11)	N/A	N/A	N/A	Yes	1	Must exist in the tblemployee
	prodDateSta rt	Date start	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A
	prodDateEn d	Date end	DATE	N/A	N/A	N/A	Yes	2017-08-26	N/A
	prodRemark s	Remarks on production	VARCHAR(450)	N/A	N/A	N/A	Yes	A remark.	N/A
	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		v, a (3) i, a ( 100)					table	
promoStartDat	Promo start date	DATE	N/A	N/A	N/A	Yes	2017-08-25	N/A
е		DATE						
promoEnd	Promo End	VARCHAR(450)	N/A	N/A	N/A	Yes	2017-08-25	N/A
promolmage	Promo image	VARCHAR(450)	N/A	N/A	N/A	Yes	Promo1.png	N/A
promonnage	display	VAI\O   A \(\450)						
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	unitID	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	Category	VARCHAR(50	N/A	N/A	N/A	No	A measure	N/A
	ption	description	)						
	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		774(01)74(40)						

#### 3.4 ARCHITECTURAL DESIGN

#### 3.4.1 INFORMATION SYSTEM ARCHITECTURE

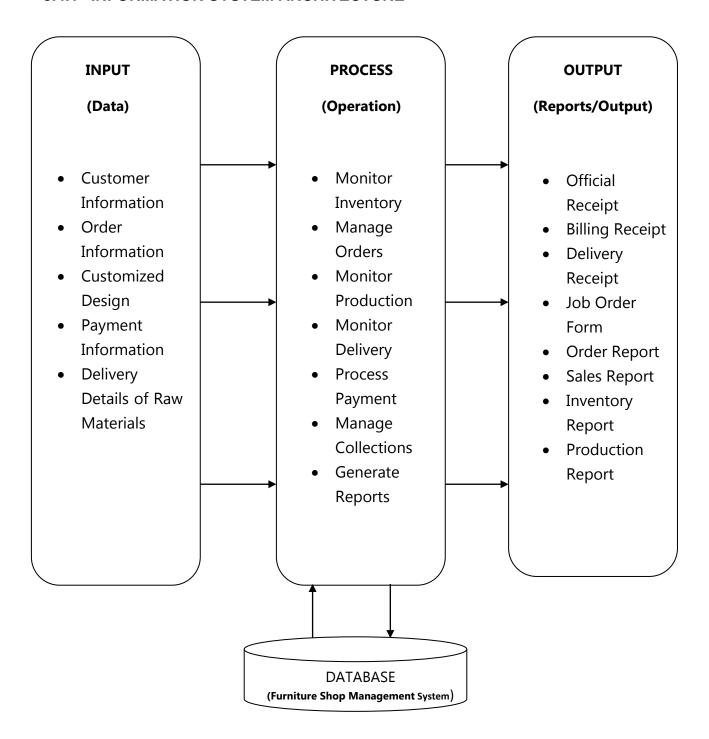


Figure 13. Information System Architecture

#### 3.4.2 WEB ARCHITECTURE

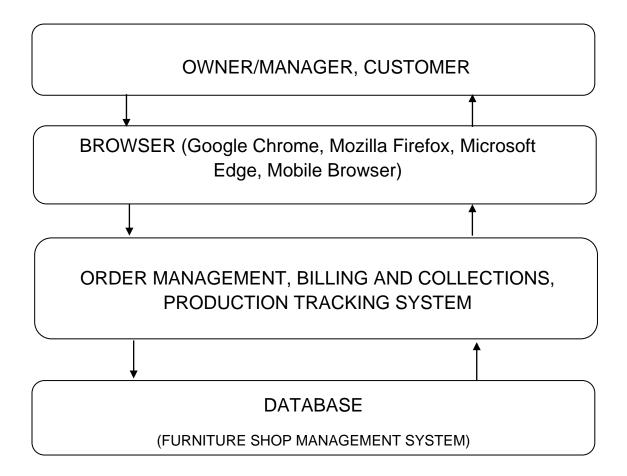


Figure 14. Web Architecture

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

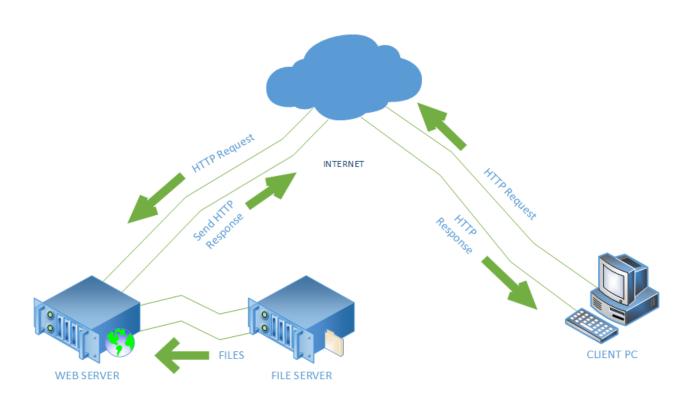


Figure 15. Client/Server Architecture

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

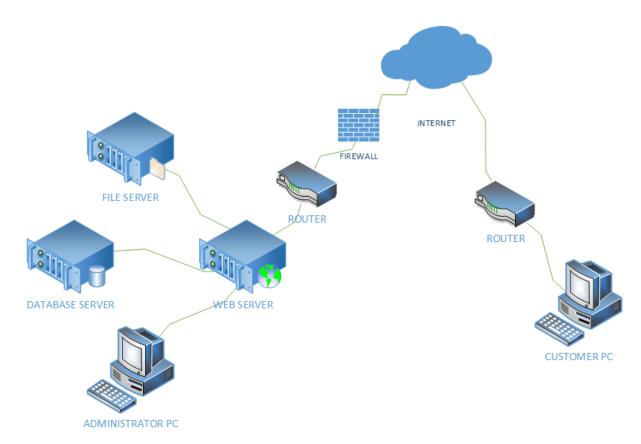


Figure 16. Network Architecture

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.

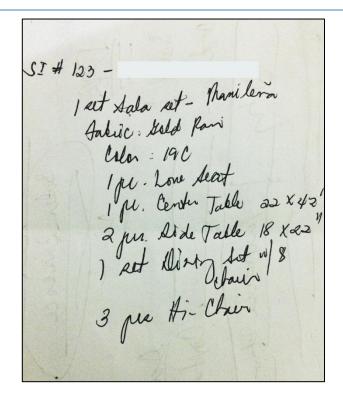
#### 3. TRANSCRIBING

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.

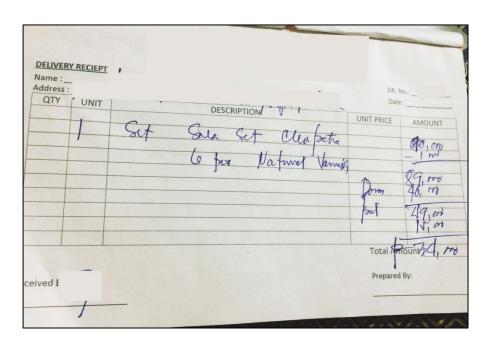
# **CLIENT FORMS & REPORTS**

Sold to:	Sales Invoice  Date: <u>Alexander</u> 12, 23/	6-
Ovantity  1 sala sut	Particular Hem Amount  Parileña Jabic hold fani Color 19C  1 pe. love neat  1 pe. love neat  1 pe. leven Table  2 pe like Table  2 per like Table  2 per like Table  3 per like Table  3 per like Table  4 per like Table	
	Received By: Signature over Printed Name	

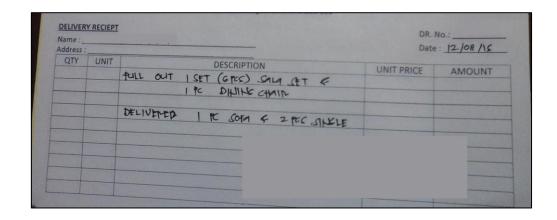
Sales Invoice Format



Job Order Format



**Delivery Receipt** 



# Delivery Receipt

PARTICULARS	Amount	
- 1.4 Fr 1.1		
200 3 4410		OFFICIAL PROFIDE
		OFFICIAL RECEIPT
		Date
mount Due	3×/1/11/35	RECEIVED FROM
.ess: SC/PWD Discount	Paril I FA	Address
TOTAL AMOUNT DUE		Address
Payment in the form of:		TINengaged in the Business Style of
CASH		the sum of
CHECK No.	77156	(Php 7n 4) (1 7)
Bank		
TOTAL AMOUNT DUE	m 1114 19	In full( ) partial ( ) payment of
		I NOTICE LABLE
		Sr Citizen TIN
		Signature Authorized Signature
		"This Document is not Valid for Claiming Input Taxes"  This Official Receipt shall be valid for five(5) years from the 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

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#### **AIRA MARIE BARRAMEDA CORONADO**

Address: #62 Resolution Street, Batasan Hills Quezon City

Email Address: <a href="mailto:hongkaira@gmail.com">hongkaira@gmail.com</a>
Contact Number: (+63) 919 5436 694
(+63) 936 6728 549



#### **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 2<sup>nd</sup> Year 1<sup>st</sup> 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**

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

#### **CHARACTER REFERENCE**

Prof. Rachel A. Nayre

Chairperson, Department of Information Technology PUP-CCIS (+63) 921 4084 612 <a href="mailto:ranayre@pup.edu.ph">ranayre@pup.edu.ph</a>

## Mr. Alex Uy

Information Systems Analyst / ICT Instructor PUP-CCIS (+63) 998 5528 261 uyalexb@gmail.com

#### Ms. Eurrance Mancio

Physical Therapist / Choreographer (+63) 936 9307 073 barbie\_ace25@yahoo.com

#### **ELISSA JOY PANGANIBAN ESTORES**

Address: B4 L40 Portobello Homes, GB-1, San Mateo, Rizal

Email Address: elissaestores@gmail.com

Contact Number: 09984711662



#### **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**<sup>th</sup> **IT Research Forum**Polytechnic University of the Philippines 2017

iBITS Mid-Year Seminar 2017
 Polytechnic University of the Philippines 2017

#### **CHARACTER REFERENCES**

## Prof. Rachel A. Nayre

Chairperson, Department of Information Technology PUP-CCIS 09214084612 ranayre@pup.edu.ph

## **Aaron Jose Apigo**

Senior Software Development Lead AS White, Net Lima Bldg. BGC, Taguig City 09178157360

## **Katherine Kimpo**

Group Leader, Risk and Compliance Concentrix 09499928842

#### SEAN LESTER AUSTERO EFA

Road 18, Lot 31, Phase III COGEO Village, Brgy. Bagong Nayon, Antipolo City, Rizal

Mobile No. 0926-7564307(+63)

E-mail Address: efasean06@gmail.com



#### **EDUCATIONAL BACKGROUND**

2014 – Present Bachelor of Science in Information Technology

Polytechnic University of the Philippines

Sta. Mesa, Manila

2010 – 2014

Academy

Don Antonio de Zuzuarregui Sr. Memorial

Brgy. Inarawan, Antipolo City, Rizal

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

## • 5<sup>th</sup> IT Research Forum

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

4<sup>th</sup> IT Research Forum

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

## • The Present and Future of COBOL

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

#### **REFERENCES**

Prof. Rachel A. Nayre: Chairperson, DIT

PUP-CCIS 09214084612

ranayre@pup.edu.ph

• Mr. Alex B. Uy: Systems Analyst

Court of Appeals 09985528261

MARIANO S LOZANO III
Block-4, Lot 32. Phase-3D, Tawilis St.
Kaunlaran Village, Caloocan City
09452566031
lozanomarianosapico@gmail.com



#### **EDUCATIONAL BACKGROUND**

2014 – Present Bachelor of Science in Information Technology

Polytechnic University of the Philippines

Sta. Mesa, Manila

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**

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

## **CHARACTER REFERENCES**

Prof. Rachel A. Nayre
Chairperson, Department of Information Technology
PUP-CCIS
09214084612
ranayre@pup.edu.ph

MARK JOSEPH B. PUBLICO
Blk. 1, Lt. 6, UCV Village, Sapang Viejo,
Ligid-Tipas, Taguig City
+63 919 7464 382
+63 948 9455 156
mjoseph.publico@gmail.com



#### **EDUCATIONAL BACKGROUND**

2014 – Present	Bachelor of Science in Information Technology
	Polytechnic University of the Philippines
	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
 Member

#### SEMINARS ATTENDED

5<sup>th</sup> IT Research Forum
 Polytechnic University of the Philippines
 2017

### • iBITS Mid-Year Seminar 2017

Polytechnic University of the Philippines 2017

#### **CHARACTER REFERENCES**

## Prof. Rachel A. Nayre

Chairperson, Department of Information Technology PUP-CCIS 09214084612 ranayre@pup.edu.ph

#### John Mark C. Silvestre

- Analyst Programmer
- H2 Software

#### Hasmen Grace V. Cuachin

- Client Service Associate
- BDO Rizal Montalban
- +63 977 4574 007

# CYRENE JANE B. AMARILLA Blk 203 Lot 28 Tañaquin St., Pembo, Makati City cyrene.amarilla@yahoo.com 09305161647



#### **EDUCATIONAL BACKGROUND**

2014 – Present	Bachelor of Science in Information Technology Polytechnic University of the Philippines Sta. Mesa, Manila
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

## > 4<sup>th</sup> University-Wide IT Research Forum

(Thesis Project Exhibition) March 7, 2016

## > 5<sup>th</sup> University-Wide IT Research Forum

(Thesis Project Exhibition) March 6, 2017

#### **CHARACTER REFERENCES**

#### Rachel P. Nayre

Department of Information Technology Chairperson, PUP Sta, Mesa 09214084612

#### **Rhoner Rendon**

DPWH Employee, Engineering Department 09491145621

#### **Tam Albert Ondevilla**

Genesys, Computer Engineer 09059018088