



BACKGROUND OF THE CLIENT

Manaheartz Creations is an online shop founded by Arisa Ishikawa, a 2 nd year college student from Columban College, back in November of 2017. The business manufactures and sells an expanding array of handmade customized items such as keychains, key caps, pendants, and bracelets. Her items are available countrywide in the Philippines.

Purpose of the Project



Manaheartz Creations needs a means to manage all types of data that are required to run the business such as customer details, product information, orders, and shipping details, etc. This project will serve as the means for the client to manage customer details, edit product information, track orders, keep the product inventory updated, make order reservations for customers, and much more to be used in the business. This will help the client keep the shop updated as well as track all incoming and ongoing orders.

Overview of the project

The primary characteristic of this project is its capacity to accept user or client input and store the data for later use. This will be accomplished via user-filled form that will be saved in a secured database and the data will be classified into the appropriate data sets to facilitate sorting and querying. The project will also include a page displaying Customer Details, Product Information, and Order List. In addition, the user will be able to search for keywords to find the specific information they require.



Project Objectives

Provide a centralized database for the client that will contain all data related to the business.



The product should not have bugs or glitches that will affect the business and the client in a negative way.



The database should be secured to prevent breaches and leakage of data containing customer information.



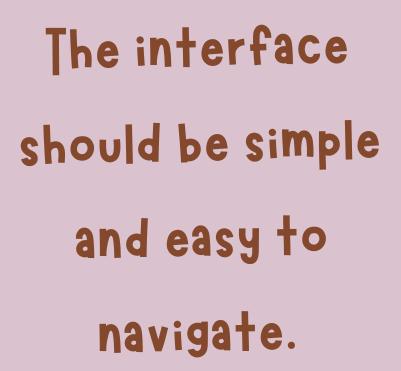




Project Objectives



It should be efficient, responsive, and should not slow down regardless of the amount of data it contains.









Project Objectives

Provide a centralized database for the client that will contain all data related to the business.



The product should not have bugs or glitches that will affect the business and the client in a negative way.



To present a database system that will allow the client to have a better data management.



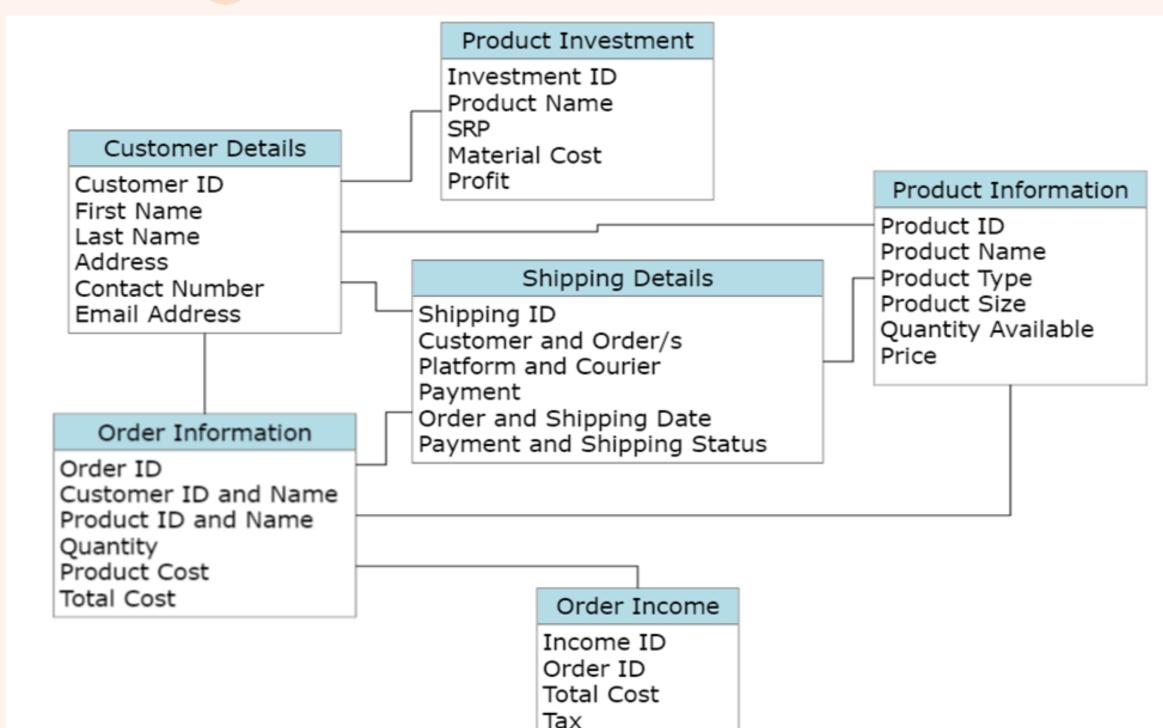
Product Perspective

The Computer Based Management System of Manaheartz Creation is divided into six parts. Customer Details, Product Information, Order Information, Shipping Details, Order Income, and Product Information. These modules are required in making the system functional and working to be used by the user.



User Class and Achieves Characteristics



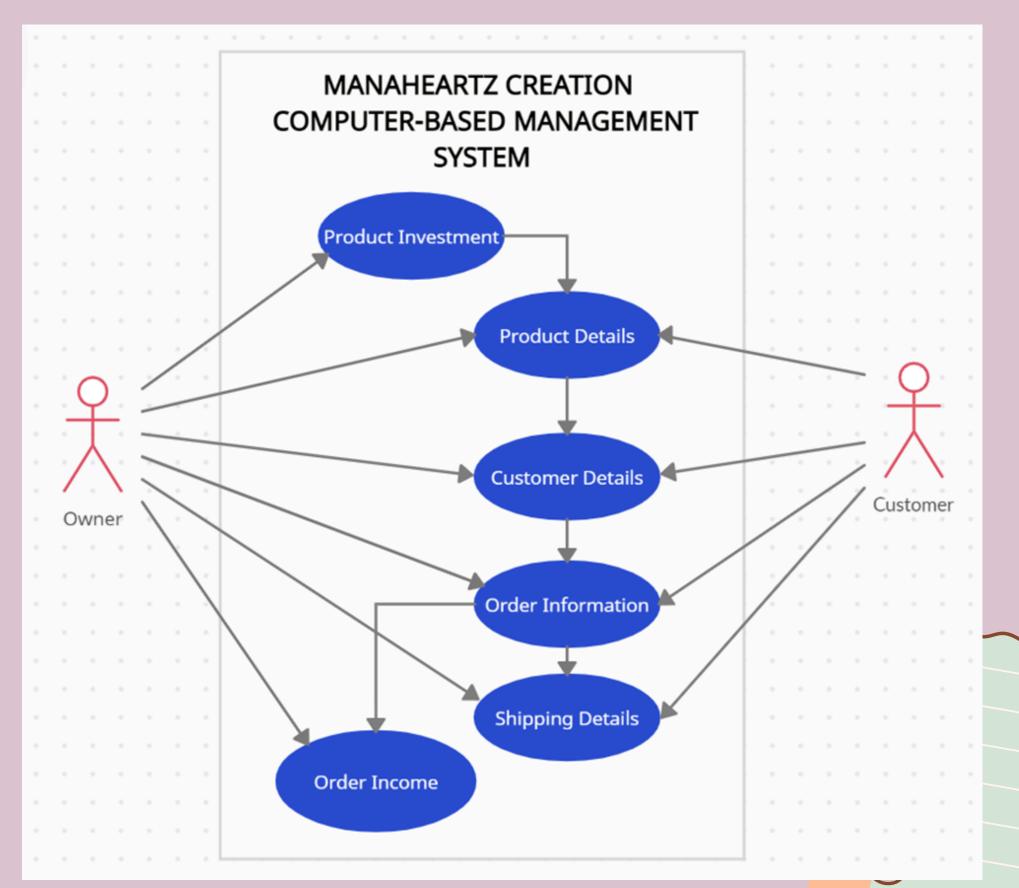


Income

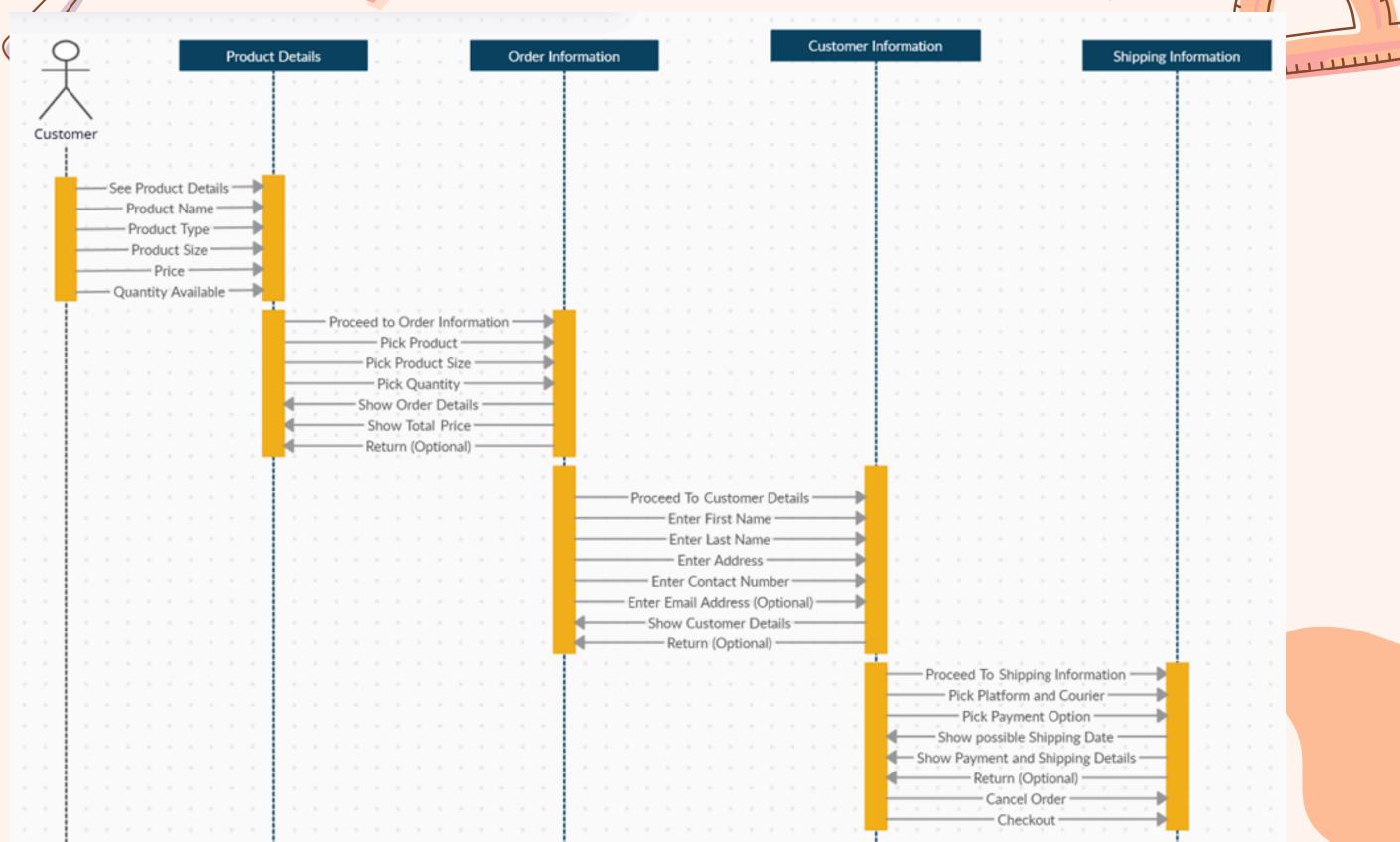




Use Case Diagram



Sequence Diagram



Function Requirements

The overall theme or design of the system must be related to the atmosphere of the shop.

The customers must be able search, locate, and see the details of each and all products inside the system.

The customers must be able to order and/or request products in the system.

The customers must be able to pay according to the possible payment options of the system (cash, credit card, gcash, etc.)

The system must allow the administrator or the shop owner to access, view and/or edit most of the information in the system.



Non-function Requirements

The system must accept information as fast as 0.1 to 0.2 seconds when running.

The system must display product information to the customer in less than 3-5 seconds.

The system must display information to the administrator or the owner such as product stock, product order and request, customer information as quick as 4-10 seconds.

The system must be available of use for the customers whenever the shop is open.

The system must always be available for use by the administrator.

The system must be compatible with low-to-high end PCs.

There should be minimal to none with regards to the system maintenance of the final product of the system.

The system must be able to run on both laptop and computer.





Processor

Graphics card
Memory

Recommended Specification
Intel® Core™ i5-10505 or
better
GTX 1650 or better
89b or higher

Hardware Requirements for the Deployment of the System

Processor

Graphics card Memory Recommended Specification
Intel® Core™ i5-8600K or
better
GTX 1050 Ti or better
49b or higher



Software Requirements for Development



Operating System

Database Management Software

IDE

Documentation Software Graphic design software Recommended Specification
Windows 10 or better
e MySQL
Visual Studio Code

Microsoft Office Adobe Photoshop

Software Requirements for the Deployment of the System

Operating System

Database Management Software

Recommended Specification
Windows 10 or better
re MySQL





Security Requirements

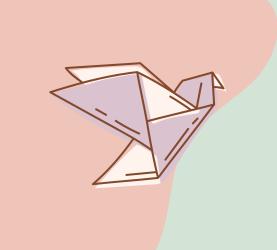
Authentication and password management – The system must include the minimum requirement for secure creation, modification, and deletion of password/s that access the system.

Authorization and role management – The system should have a specific authorization for each personnel or administrator that access different parts of the system "who can access what".

Audit logging and analysis – The system must include a way to capture details about any access and events and configuration with regards to the system.

Network and data security – The system must have a strong network and data security that secures the confidentiality and accessibility of the data and network of the system.

Code integrity and validation testing – The system must include a way to check and control any corruption or malicious software that can access, modify, delete, or any possible interference with the system.





SYSTEM PROTOTYPE (DATABASE)







Main Menu

the Main Menu is the starting point where we can easily access all the other functions and forms that is in the system.





Main Menu!

What would you like to do?

Add, Modify, and View Records:

Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment

View Records List Only:

Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment



1st Part of the Main Menu

ADD, MODIFY, AND VIEW RECORDS



Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment

Customer Information

The Customer Information stores all the information of the customers who are going to be buying and/or requesting products in the



Customer Information

8

CustomerID

1

FirstName

Angelo

LastName

Santiago

Address

Pag-asa

ContactNumber

4892 374 2894

EmailAddress

phantom@gmail.com

















Add Record

Main Menu

Customer Information

Customer Request

Order Information

Product Information

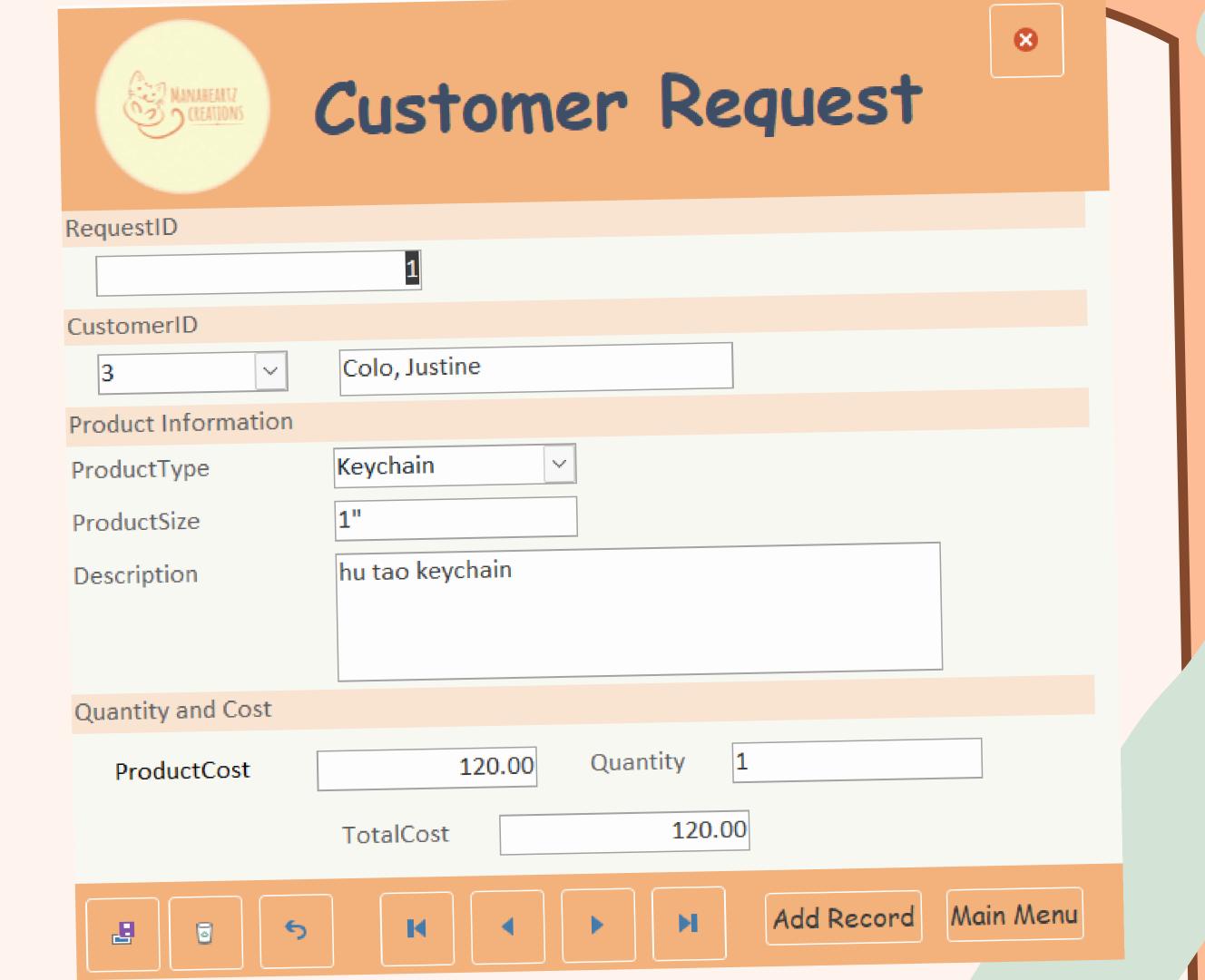
Shipping Information

Order Income

Product Investment

Customer Request

The Customer Request allows the user to store all the information regarding the requested products of the customers.



Customer Information

Customer Request

Order Information

Product Information

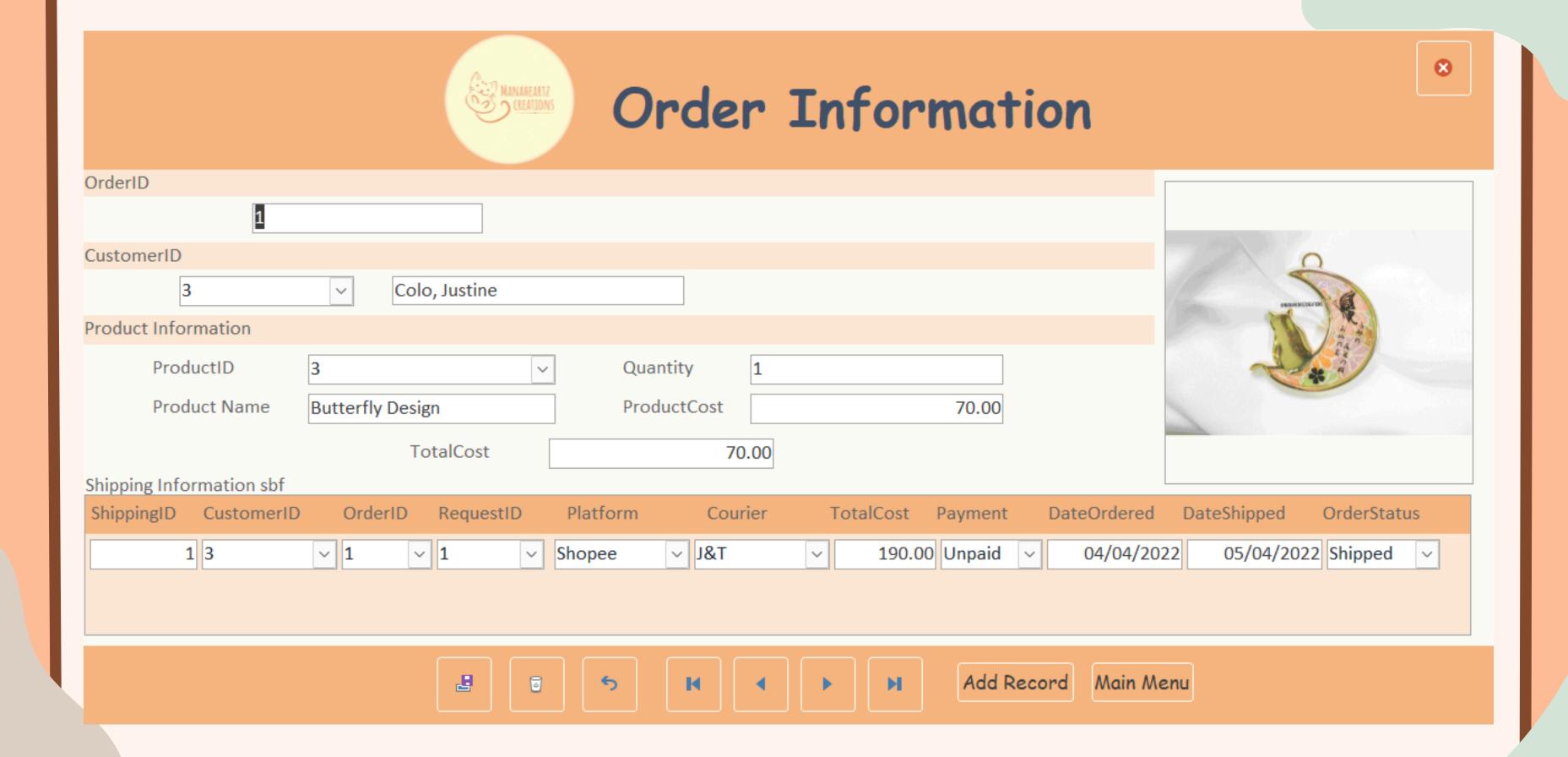
Shipping Information

Order Income

Product Investment

Order Information

The Order Information stores all the ordered products by the customers.



Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment

Product Information

The Product Information allows the user to store all the information of the products to be or being sold in the online shop.





Product Information

ProductName Genshin Impact Vision Keychain

ProductType Keychain

ProductSize 1"

Quantity 100

SRP 125.00





WholesalePrice













120.00

Add Record

Main Menu

Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment

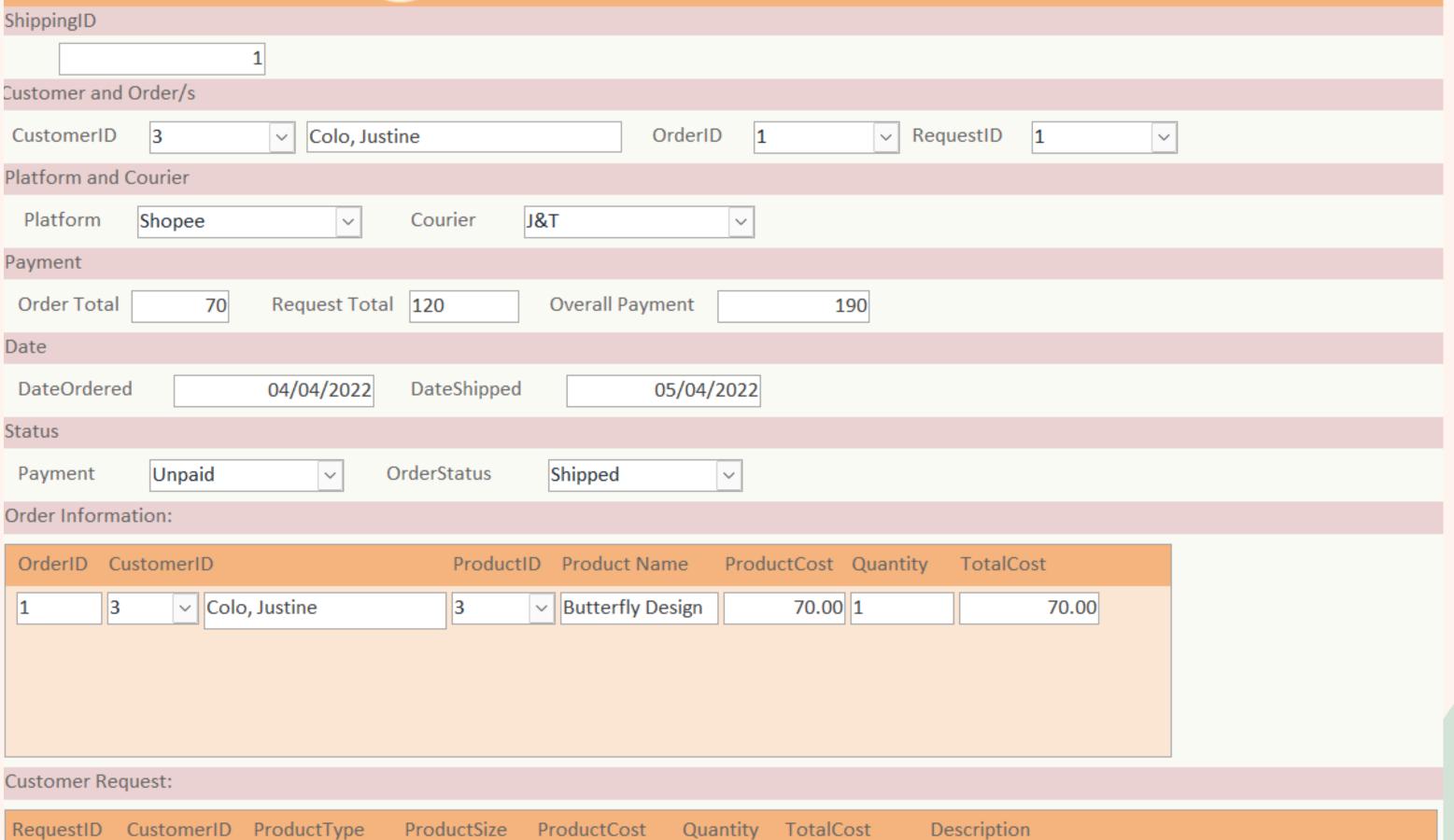
Shipping Information The Shipping Information contains all the information needed for epreparing and shipping the requested and/or sold product/s.



∨ Keychain

1 3

Shipping Information



120.00 1

120.00 hu tao keychain

Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment

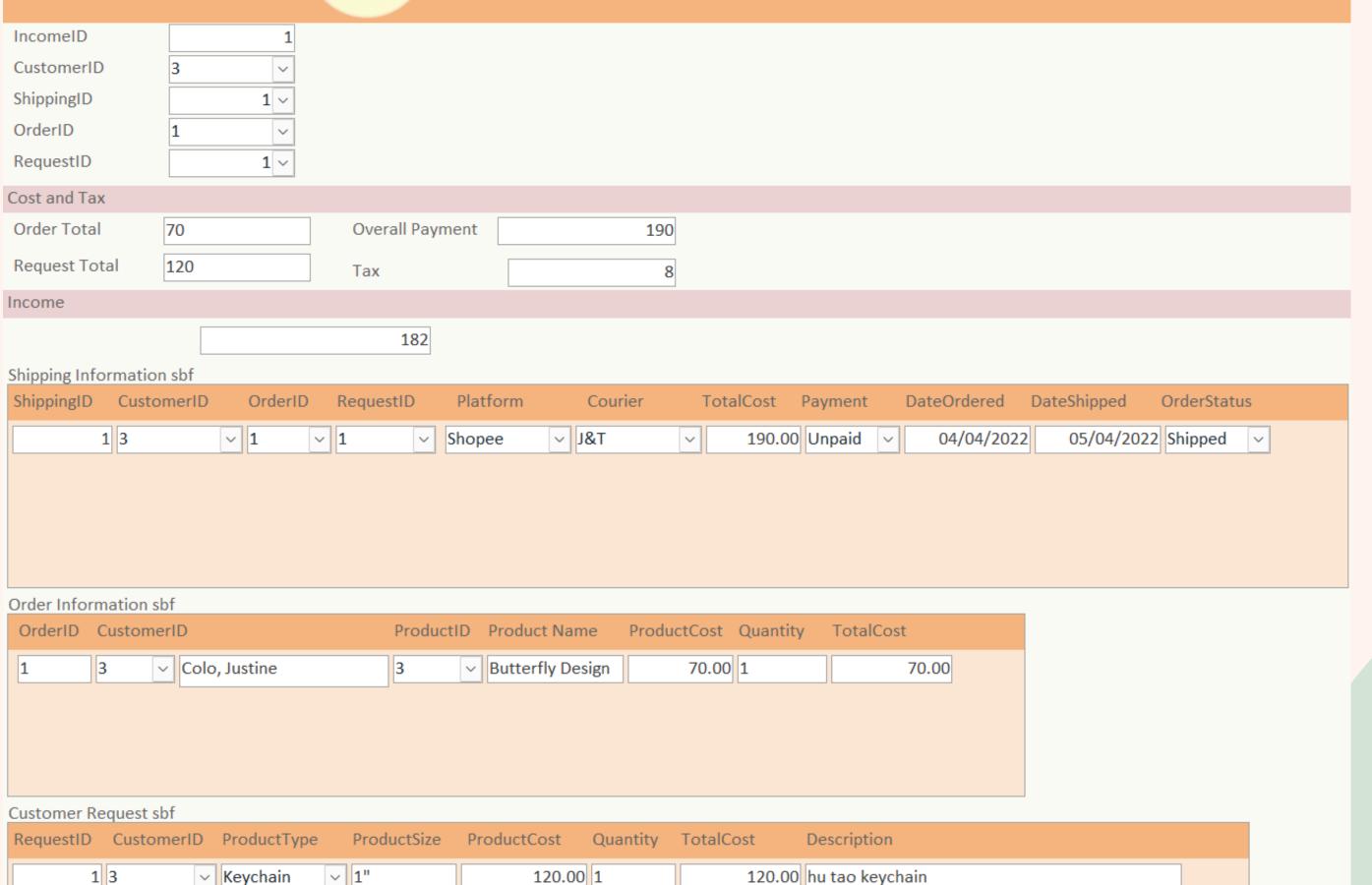
Order Income

The Order Income stores all the data regarding the income made in an specific order.





Order Income



Customer Information

Customer Request

Order Information

Product Information

Shipping Information

Order Income

Product Investment

ProduCt Investment The Product Investment Information stores all the data regarding the amount needed to invest to a specific product.



Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List



2nd Part of the Main Menu

VIEW RECORD LIST ONLY



Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Customer Information List

Customer Information List allows you to view all the information of the customers at once.



Customer Information List

			Address	ContactNumber	EmailAddress	
CustomerID	FirstName	LastName		4892 374 2894	phantom@gmail.com	
1	Angelo	Santiago	Pag-asa	9234 898 4324	mikazuki@gmail.com	
	Asiah	Pangkatan	Kalayaan		nekooo@gmail.com	
Z	Justine	Colo	Bataan	8923 472 4982		
3		Llanes	East Tapinac	1526 378 9324	ishie@gmail.com	
4	Ishie		West Tapinac	9248 645 3879	hi@gmail.com	
5	Zervi	Carpeso		9348 459 3729	ghost@gmail.com	
6	Keon	Salonga	Bataan	2983 983 1893	bamibami@gmail.com	
7	Deniz		Gordon Heights	2303 303 1031		
/						

Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Customer Request List

Customer Request List allows you to view all the request information of the customers at once.



Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Order Information List

Order Information List allows you to view all the information of the orders all at once.



Order Information List

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OrderID	CustomerID	ProductID Product Name ProductCost Quantity	TotalCost
1	3 Colo, Justine	3 Butterfly Design 70.00 1	70.00
2	4 V Llanes, Ishie	4	120.00
3	1 V Santiago, Angelo	7 BTS Bookmark 110.00 2	220.00
4	2 Pangkatan, Asiah	5 Cute Aesthetic Ba 110.00 3	330.00
5	1 Santiago, Angelo	9 Galaxy Initial Lett 140.00 5	700.00
		8 V LALISA bookmark 130.00 1	130.00
6	Llanes, Isnie		

Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Order Income List

Order Income List allows you to view all the income information of the sold products all at once, including the requested ones.



Orders Income List

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	o	ShippingID	OrderID		RequestID	TotalCost	Tax	Income
IncomeID	CustomerID	эшрыны	1 \ 1	_\	1 ~	190	8	232
	1 3		2 ~ 2		2 ~	700	10	290
	2 4				~	330	10	290
	3 2		3 ∨ 4			920	20	880
	4 1	~	4 ∨ 3, 5					

Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Shipping Information List

Shipping Information List allows you to view all of the list of products being prepared, shipped and delivered.



Shipping Information List

ShippingID CustomerID	OrderID	RequestID	Platform	Courier	TotalCo	st Payment	Date	Ordered	DateShipped	OrderStatus
1 3	<u> </u>	1 ~	Shopee	∨ J&T	V 19	90.00 Unpaid	<u> </u>	04/04/2022	05/04/2022	Shipped
2 4	~ 2, 6 ~	2 ~	Shopee	∨ Shopee Xpres	~ 70	00.00 Paid	V (02/03/2022	04/03/2022	Delivered ~
2 4	~ 2, 6 ~	2 ~	Shopee	∨ Shopee Xpres	~ 70	00.00 Paid	V (02/03/2022	04/03/2022	Delivered ~
3 2	<u> </u>		Shopee	∨ J&T	× 33	30.00 Paid		13/04/2022	14/04/2022	Delivered ~
4 1	√ 3,5 √	·	Lazada	∨ LexPH	v 92	20.00 Paid	<u> </u>	28/03/2022	30/03/2022	Delivered ~
4 1	× 3,5 ×		Lazada	∨ LexPH	v 92	20.00 Paid	<u> </u>	28/03/2022	30/03/2022	Delivered ~

Customer Information List

Customer Request List

Order Information List

Orders Income List

Shipping Information List

Product Stock List

Product Stock List

Product Stock List allows you to view all of the stock of products that is in the system.

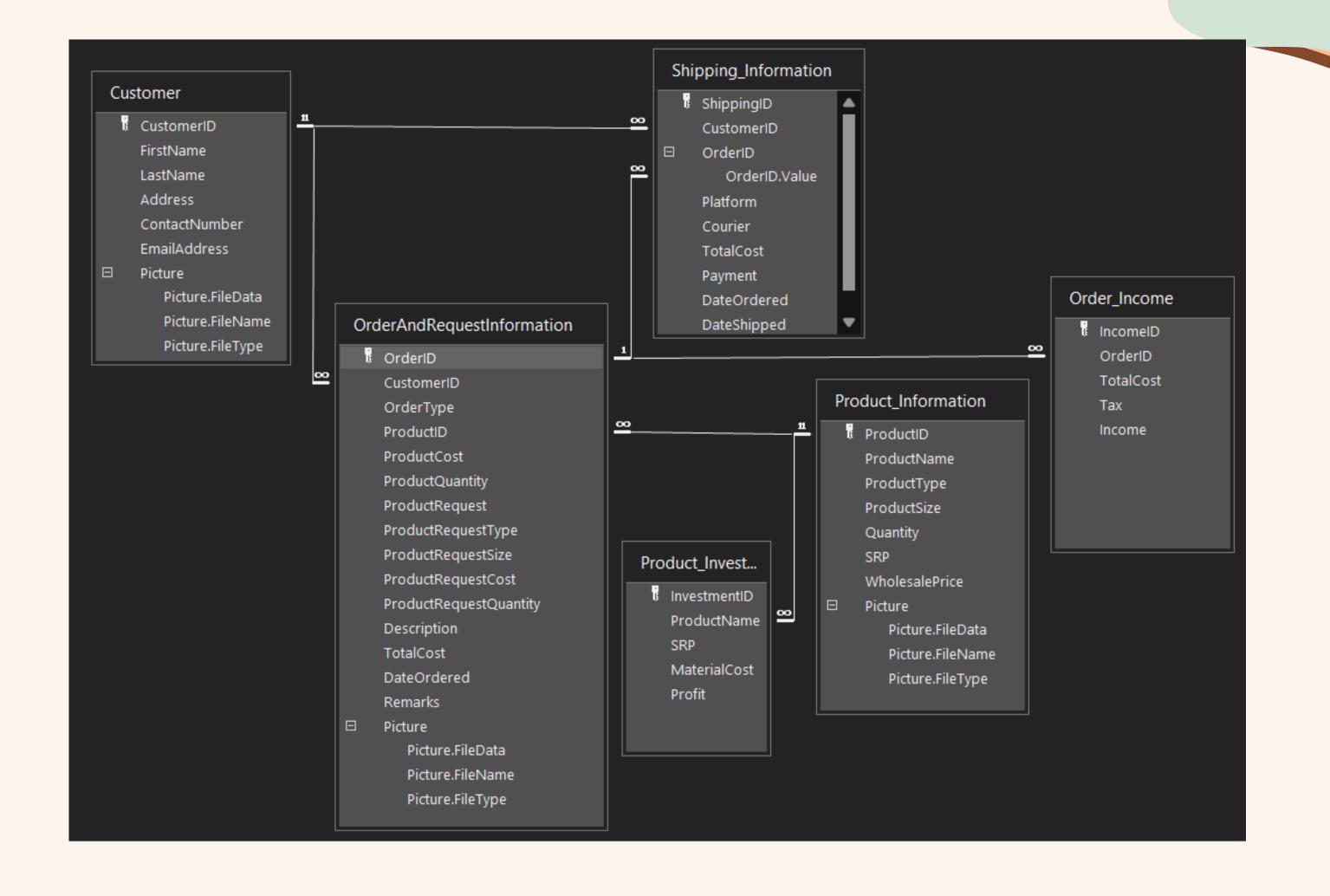
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Product Stocks

Quantity	ProductID	ProductName	ProductType	ProductSize	SRP	WholesalePrice
100	8	LALISA bookmark	Bookmark	6"	130.00	120.00
100	7	BTS Bookmark	Bookmark	4"	110.00	100.00
100	2	Pressed Flower Necklace	Necklace ~	0.5"	150.00	145.00
100	1	Genshin Impact Vision Keychain	Keychain ~	1"	125.00	120.00
56	6	Gold Clock Charm	Keychain 🔻	1"	100.00	90.00
58	4	Deer in a Snow Dome Charm	Keychain ~	3"	120.00	110.00
67	5	Cute Aesthetic Bagcharm	Keychain ~	2"	110.00	100.00
967	9	Galaxy Initial Letter with Zodiac Si	Keychain ~	4"	140.00	130.00
97	3	Butterfly Design	Keychain ~	2"	70.00	60.00

RELATIONSHIP OF THE MANAHEARTZ CREATION DATABASE SYSTEM









Inanx you



