

Project Golden Cup: Copier Machines Ordering System

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Applied Projects 2

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Executive Summary

Golden Cup Exim Marketing Corporation is an established company formed since 1987 with years of experience in sales, rentals, and services of reconditioned and brand-new copier machines. The company aim is “to provide efficient and affordable copier machines” to customers. At this point of time the company main problem is the current running static website due to the website is hard to navigate, customer could not see up to date prices, the website is not dynamic and automated and there is no admin panel.

Basically, the team proposed a solution to develop a new automated web based ordering system wherein the system will be having two actors the Customer and the Admin. For Customer, the system will provide an ordering system similarly on Amazon ordering process particularly in – Account Authentication, Add to Cart process, and payment option. For Admin, the system will also provide an Account Authentication, Updating Products and Prices, Confirmation of orders, and Tracking Sales and Inventory.

In this proposed solutions concept, the ordering process will be more easily, synchronized and understandable by our valued customers. Thus, the Golden Cup Exim Marketing Corporation will now be having a separate account for Customer, Admin that helps the company to monitor each order and inventory.

I. Introduction

1.1 Project Context

Project Golden Cup: Copier Machines Ordering System allow customer to purchase copier machines, browse products and pay. On the other hand, Admin Panel allow the management to view orders, update product, confirm order and generates report.

The current running static website of the Golden Cup Exim Marketing Corporation was all done manually, it takes time to for both admin and customer to have a successful process of orders.

Using the developed automated web-based ordering system process of orders will consume less time since all the manual processes are replaced by automated one.

1.2 Purpose and Description

The Project Golden Cup: Copier Machines Ordering System aims to solve the problem regarding company current running static website as well as the processing of orders of the customer and managing of orders of the admin.

For Customer, all transactions are automated specifically in purchasing orders, browsing orders, cancellation of orders, and payment method that can help to consume less time.

For Admin, all information of orders is save in the database that can help the management to manage orders, update inventory, and generates report.

1.3 Objectives

General Objective

To developed an automated and dynamic ordering system for Golden Cup Exim Marketing Corporation that can help customers to experience efficiency and effectiveness of processing orders.

Specific Objectives

- To develop an easy navigation web-based application for customers and owner.
- To develop a dynamic web-based application to change the company current running static website.
- To display an Item List for customers to easily view the products as well as automatically display all prices of the products.
- To help administrator to create business analytics and generate reports.

1.4 Scope and Limitations

Scope

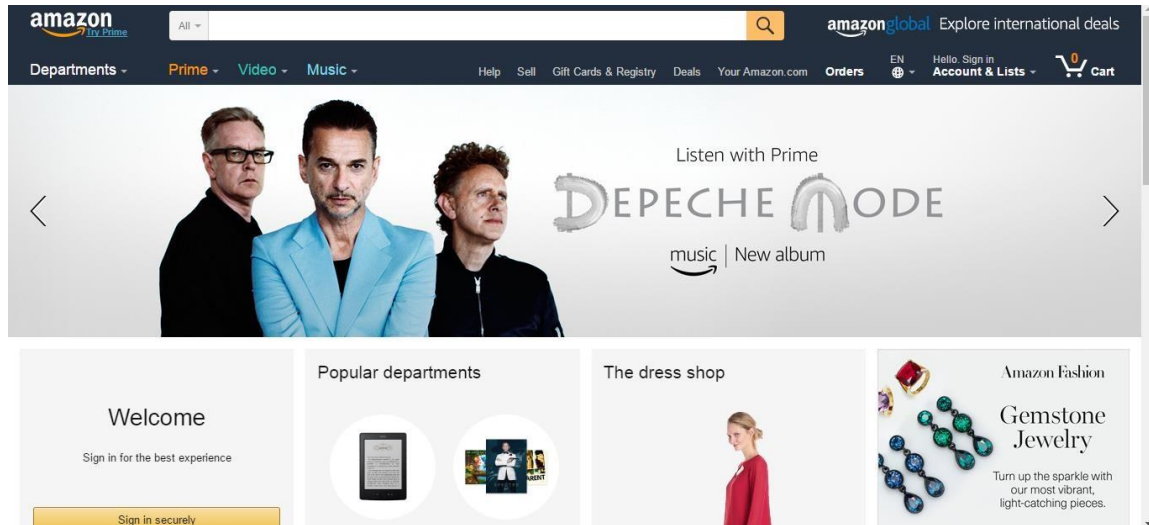
The Scope of the project would be, to develop an automated web-based ordering system for Golden Cup Exim Marketing Corporation that has a major feature of Purchase History, Order Management, Account Management and Admin Management.

Limitations

- The automated system is only for Golden Cup Exim Marketing Corporation.
- The customer cannot proceed to checkout without Logging in to the system.
- The system will only sell Copier Machines, Printers, Parts and Toners.
- The system is not responsive and does not have a mobile version.
- The system would not run without an Internet Access.

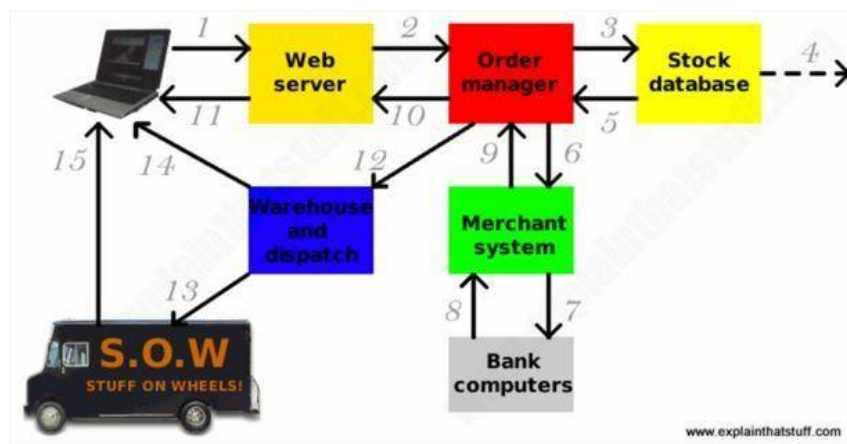
II. Review of Related Literature/Systems

I. Amazon



Amazon.com: the world's most successful e-shop. Originally just a bookstore, now it sells almost anything you can imagine. It even allows third-party vendors to sell products alongside its own offerings with something called Amazon Marketplace. Amazon has consistently set the standard for online retailers with pioneering features like one-click shopping.

Amazon Ordering Process



Here's one example of how a sophisticated, fully computerized ecommerce system might work. Not all e-commerce systems work in exactly this way:

1. Sitting at her **computer**, a customer tries to order a book online. Her Web browser communicates back-and-forth over the Internet with a Web server that manages the store's website.

2. The **Web server** sends her order to the order manager. This is a central computer that sees orders through every stage of processing from submission to dispatch.

3. The **order manager** queries a database to find out whether what the customer wants is in stock.

4. If the item is not in stock, the **stock database** system can order new supplies from the wholesalers or manufacturers. This might involve communicating with order systems at the manufacturer's HQ to find out estimated supply times while the customer is still sitting at her computer (in other words, in "real time").

5. The stock database confirms whether the item is in stock or suggests an estimated delivery date when supplies will be received from the manufacturer.

6. Assuming the item is in stock, the order manager continues to process it. Next it communicates with a **merchant system** (run by a credit-card processing firm or linked to a bank) to take payment using the customer's credit or debit card number.

7. The merchant system might make extra checks with the customer's own bank computer.

8. The bank computer confirms whether the customer has enough funds.

9. The merchant system authorizes the transaction to go ahead, though funds will not be completely transferred until several days later.

10. The order manager confirms that the transaction has been successfully processed and notifies the Web server.

11. The Web server shows the customer a Web page confirming that her order has been processed and the transaction is complete.

12. The order manager sends a request to the warehouse to dispatch the goods to the customer.

13. A truck from a dispatch firm collects the goods from the warehouse and delivers them.

14. Once the goods have been dispatched, the warehouse computer e-mails the customer to confirm that her goods are on their way.

15. The goods are delivered to the customer. These things are invisible—"virtual"—to the customer except the computer she sits at and the dispatch truck that arrives at her door.

Basically, Amazon was used as the basis for the ordering process of the Golden Cup particularly in:

- **Sign in Page**



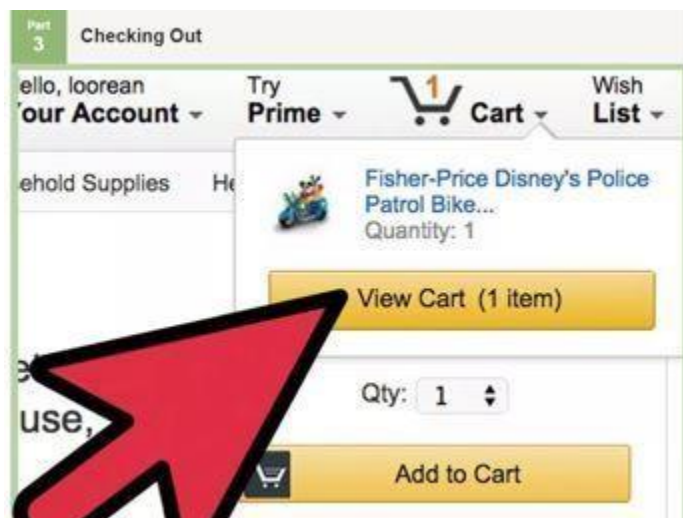
The new proposed web based ordering system customer need to have a verified account for login. Otherwise, customer could not place an order and they can only canvas the products and accessories page.

- **Shop by Department**



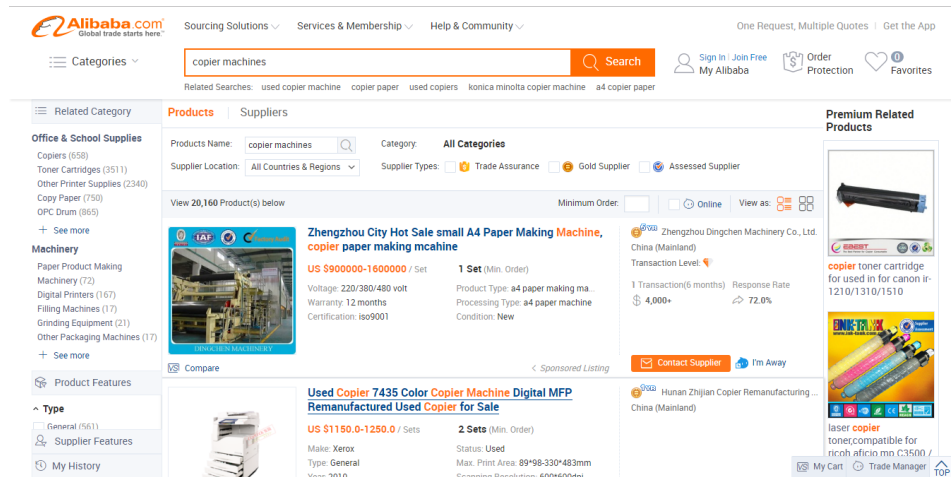
The new proposed web based ordering system allow the customer to browse the categories neither your login or not on the other hand, Amazon has shop by Department options and can browse items even though the customer is not login.

- **Add and View Cart**



The new proposed web based ordering system has a view and add to cart features similarly to Amazon wherein the system will put and show all the items that customer bought.

II. Alibaba

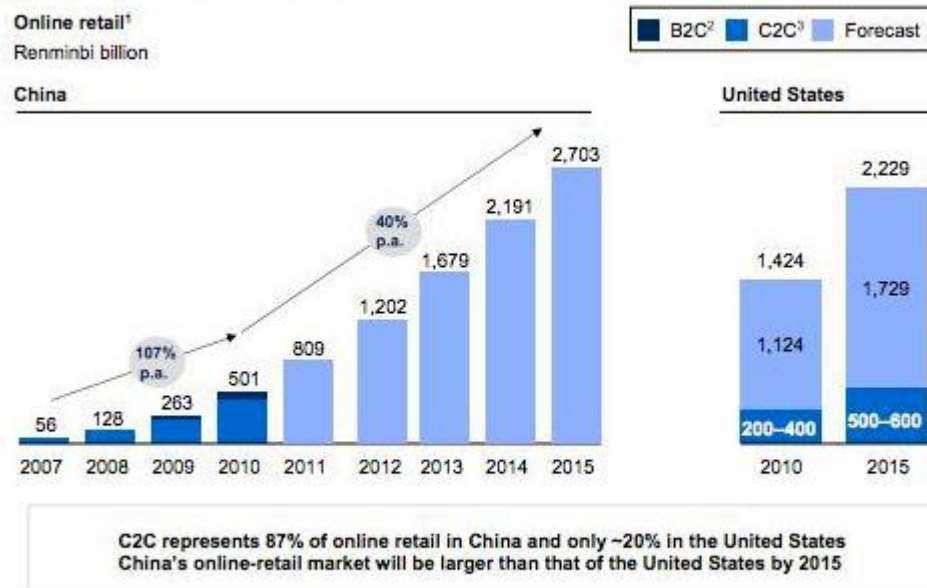


The three big Internet companies in China are Alibaba, Baidu and Tencent, which dominate three different categories of the market: ecommerce, search and messaging, respectively.

The vast majority of online transactions in China — 85% as of 2009 — take place between consumers, according to AK Kearney's estimates. Approximately 90% of those transactions are executed on Alibaba-owned Taobao, frequently described as the "eBay of China."

Like eBay, users on Taobao can purchase and sell new and used goods at fixed or negotiated prices, as well as through auction-style listings. Unlike eBay, most goods are new, and there are no listing or transaction fees — the majority of Taobao's revenue comes from advertising. Next year, the company will bring in \$716 million in pre-tax earnings and will be worth \$14.3 billion, according to estimates from Goldman Sachs.

Exhibit 2 China's e-commerce market is expected to grow significantly, becoming the world's largest such market by 2015.



1 Excluding financial products, travel package/ticketing, and utility fees.

2 Business to consumer.

3 Consumer to consumer.

Source: CMM; CCID Consulting; Sino Market Research; Gartner; IDC; Euromonitor; Planet Retail; Forrester; BBE; GfK Market Consulting; McKinsey analysis

Business-to-consumer retail is quickly gaining steam online, however: AK Kearney estimates that B2C transactions will make up 40% of the market by 2015.

About half of B2C transactions currently take place on Taobao Mall, or Tmall, another Alibaba property. There, 50,000 merchants and 200,000 brands, including major western brands like Nike and Gap, have already set up shop. Unlike Taobao, Tmall charges businesses fees for transactions. An estimated \$16 billion in sales was generated on Tmall in 2011, a figure BCG expects will double this year.

Together, Taobao and Tmall were responsible for 81% of online transactions by dollar amount in 2010. Forty-eight thousand products were sold per minute on Taobao that year, more than the number sold by China's top five brick-and-mortar retailers combined.

More than 60% of buyers on Taobao and Tmall pay for their transactions using Alipay, a payment system comparable to PayPal. Twenty percent of transactions on B2C sites are also paid for using Alipay.

Other players in the space include 360buy.com, a multibrand retailer often described as the online, Chinese equivalent of Best Buy. It is the second largest B2C site in China, generating around \$5 billion in sales in 2011. Individual brands are also setting up shop to sell directly to consumers.

III. Lazada

The screenshot displays the Lazada Singapore homepage. At the top, there's a navigation bar with the Lazada logo and a search bar. Below this is a category menu including Electronics, Women's Fashion, Men's Fashion, Home & Living, Health & Beauty, Baby & Toys, Sports & Travel, Groceries, Motor & More, Taobao Collection, and Shop Brands. A large banner for the 'Taobao Collection' is featured, announcing its 'OFFICIAL LAUNCH ON LAZADA!' with a 'UP TO 60% OFF' discount and a 'SHOP AT OFFICIAL STORE' button. Below the banner, the 'Taobao Collection' section shows 390434 items found. A sidebar on the left allows refining results by category, with options like Fashion (126244), Home & Living (107269), and more. The main product grid displays four items: 'Free shipping hello kitty hello kitty cartoon mahjong household level in...', 'Korean couple long sleeve split swimsuit beach anti-uv snorkeling...', 'Export orders fell for the summer women's floral lace waist was thin piec...', and 'Men's cotton short sleeve t-shirt loose round neck sleeve t-shirt youth t-shirt...'. Each item listing includes a price in SGD, a discount percentage, and the Taobao logo.

When Southeast Asia's retail giant Lazada set up shop in the Philippines in 2012, it was not exactly the best place to imagine e-commerce to thrive.

Credit card penetration is below four percent, Internet speed and purchasing power are lower than the more developed parts of Southeast Asia, delivery could be a logistical nightmare with 7,100 islands.

It does, however, have a mobile and Internet savvy population of over a hundred million eagers to embrace the next technology frontiers. First, it was called the texting capital of the world, then later on, the social media capital by various entities.

For various reasons, Rocket Internet, Lazada Group's parent company made the leap and launched the Lazada.com.ph shopping portal, along with four other local sites in Indonesia, Malaysia, Thailand and Vietnam.

Its promises in the Philippines: no traffic jams, no crowds or long queues at the malls. That resonated well with the local customer base that is thoroughly fed up with the country's infrastructure shortage. A country just waking up to the world of convenience being offered by Internet shopping may be a green field, but it could also be a potential land mine.

But it's not just the company who jumped into the unknown, but also a young London-based Turkish banker who was to become Lazada Philippines co-founder and CEO Inanc Balci. Prior to coming to the Philippines, he has been saying in media interviews that he knows nothing about the country, which probably worked to his advantage. Otherwise, he may have opted to just stay where he was.

The calculated risk paid off. Today, Balci is proudly raving about the portal's achievements - the website averages 81 million visits in a month, it's mobile platform has surpassed 20 million app downloads in Southeast Asia. But more

important than that is the ranking. According to SimilarWeb, Lazada Philippines is now the sixth most visited website in the Philippines after Facebook, Youtube, Google.com.ph. Google, and Yahoo.

III. Technical Background

I. Hypertext Preprocessor (Php)

PHP executes on the server, while a comparable alternative, JavaScript, executes on the client. PHP is an alternative to Microsoft's Active Server Page (ASP) technology. As with ASP, the PHP script is embedded within a Web page along with its HTML. Before the page is sent to a user that has requested it, the Web server calls PHP to interpret and perform the operations called for in the PHP script.

II. Hypertext Markup Language (HTML)

Consists of a series of short codes typed into a text-file by the site author — these are the tags. The tags are what separate normal text from HTML code. You might know them as the words between the <angle-brackets>. They allow all the cool stuff like images and tables and stuff, just by telling your browser what to render on the page. Basic special effects and interaction is provided by JavaScript, which adds a lot of power to basic HTML.

III. Cascading Style Sheets (CSS)

A style language that defines layout of HTML documents. CSS covers fonts, colors, margins, lines, height, width, background images, advanced positions and many other things. The concrete benefits of CSS include: control layout of many documents from one single style sheet; more precise control of layout; apply different layout to different media-types (screen, print, etc.); numerous advanced and sophisticated techniques.

IV. MySQL

is an open source database. It represents a free, reasonable alternative to the complex corporate database solutions, and allows today's web applications to store and display a large number of articles, user posts, comments and lots of other different types of data. Some of the most popular open source PHP web applications, such as Joomla, WordPress, phpBB and many more, use MySQL to store their data.

All that web content is contained in the database of the current web application and can be easily displayed, edited, or removed by executing 4 basic database statements: Insert, Select, Update or Delete (you can check the examples above, but note that they are not complete and are only for educational purposes). (Computer Hope, 2017) (Computer Hope, 2017)

V. Dreamweaver

is a software program for designing web pages, essentially a more fully featured HTML web and programming editor. The program provides a what-you-see-is-what-you-get (WYSIWYG) interface for users to create and edit web pages in a more user-friendly environment. Dreamweaver supports many markup languages, including HTML, XML, CSS, and JavaScript. As for human languages, it supports English, Spanish, French, German, Japanese, Chinese (both Simplified and Traditional), Italian, Russian, and many more.

IV. Methodology, Results and Discussion

The system was made using the waterfall model. The waterfall model consists of the following stages: Planning, Analysis, Design, Development, Testing and Deployment. The proponents could follow up to the development phase of SDLC.

For Planning Phase, the Team conduct an Initial Meeting to create a Project Team as well as creating Project Plan. In addition, the Project Plan Document will be the guide of the Team to construct the whole system.

For Analysis Phase, the Team conduct requirements gathering which sub divides into four processes: Elicitation, Validation, Specification and Verification. First, Elicitation Process, which the Team conducts One-on-One Interviews, Group Interviews, Facilitated Sessions and JAD Session. Second, Validation Process, the Team consolidate the requirements, Rationalize the requirements and Process Model. Third, Specification Process, the Team ensure traceability of the requirements, ensure testability of the requirements and create business requirements report. And last, Verification Process, the Team conduct requirements review and obtain client signoff.

For Design Phase, the Team creates Architectural Foundation which covers development and technical architecture, and undergo with validating standards and guidelines. In addition, in this phase the Team design the solution which covers Online Screen Layouts, System Programs, System Components, System Security, System Interfaces, Logical Datastores and Building the Technical System Design.

For Development Phase, the Team conduct review of the components which is coding reviews. In this phase, the Team construct support documentation which covers creating Application Maintenance Manual, creating User's Manual, creating Disaster Risk Recovery Plan and Service Level Agreement. In addition, the Team construct miscellaneous elements of solution which covers constructing test environment and data, creating training content, constructing data conversion components and constructing implementation components.

For Testing Phase, the Team undergo resolving bugs, testing metrics, managing test environment, regression testing, automated testing and managing test cases, with four methods which is Validate Test Coverage, Integration Testing,

System Testing and User Acceptance Testing. Under System Testing, the Team conduct Performance Testing, Stress Testing, Security Testing, Requirements Testing, Usability Testing, Documentation Testing, Training Testing, Interface Testing, Disaster Risk Recovery Testing, Multi-Site Testing and Installation Testing.

For Deployment Phase, the Team prepare for implementation, perform training, convert data, Pilot Testing, Monitor Solution, Turnover to Support, procure final approval and terminate the project.

4.1 Requirements Analysis

Event	Trigger	Source	Use Case	Response	Destination
Customer browse available product	Browse Product	Customer	Browse Products	Product Details	Admin
Order Process	Orders Product	Customer	Place order	Order Confirmation	Admin
Customer Payment	Payment	Customer	Payment	Payment Details	Admin
Process Delivery	Order being process	Admin	View Order	Order Details Product Delivery	Customer
Generate Sales Report	Generate monthly sales report	Admin	Generates report	Sales Report details	Management

4.2 Requirements Documentation

After meeting with the client and discussing project, we came up with the list of requirements:

- Purchase History

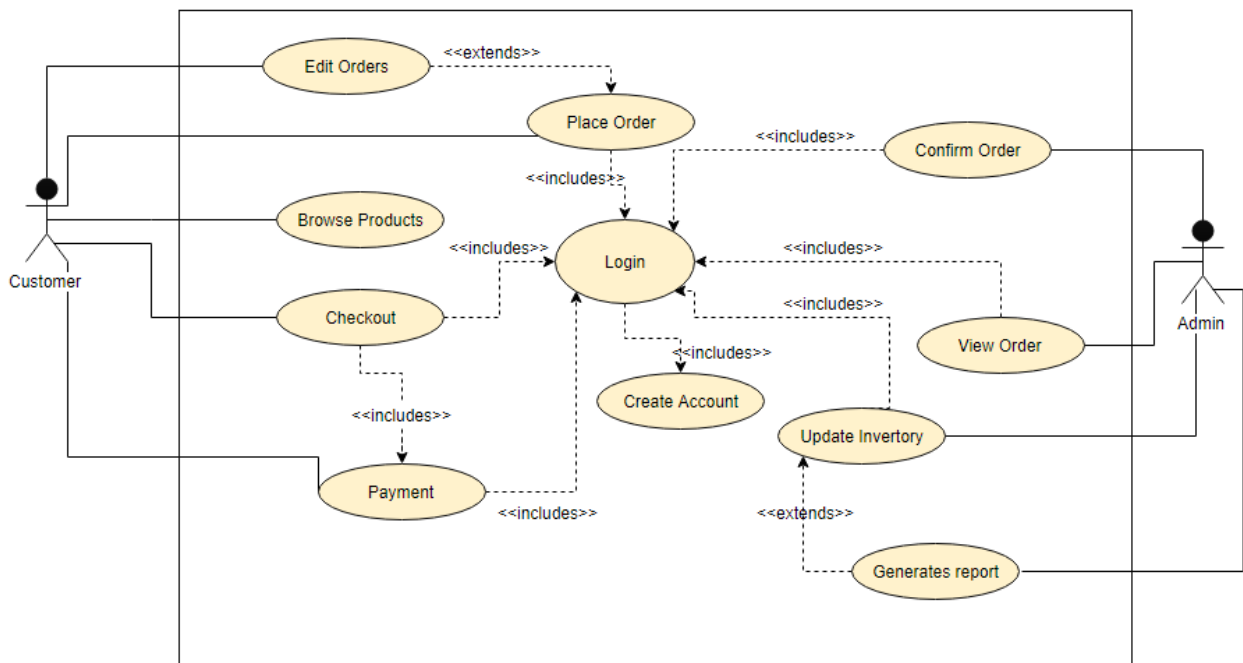
- Ordering Management.
- Admin Management
- Account Management

5.3 Gap Analysis

Objective	Current State	Future State	Gap Identification	Gap Description	Factors
To decrease paper-based processes	Manual processes of ordering (using calls and direct message)	<ul style="list-style-type: none"> • Real-time processing of orders. • Additional ordering platform: Online website 	Yes	There is more than 80% difference from the aim	<ul style="list-style-type: none"> • The system is not automated • The website is static
To organize and display products and accessories by category	No product information (Prices, availability, quantity) in their website.	Real-time display and update of products, descriptions, prices, and quantity.	Yes	There is an almost 100% difference of the current to the aim.	<ul style="list-style-type: none"> • The only way for clients to learn of products, availability, prices, and quantity is through inquiry through a contact form or calling or going to their location personally.

5.4 Design of Software, System, Products, and/or Processes

a. Use Case Diagram



b. Use Case Narrative

Name	Place order
Actor	Customer
Description	Before placing an order, the customer must create an account, and the customer must login.

Successful completion	<p>User:</p> <ol style="list-style-type: none"> 1. Customer hovers on categories 2. Customer clicks on "Products" 3. Customer chooses a product 4. Customer selects add to cart button. 5. Customer places an order 6. Extends use case 'Edit Order' 7. Includes use case 'Login' 	<p>System Response:</p> <p>4.1 System displays order details.</p> <p>5.1 System displays list of customer orders</p>
Alternative		
Pre-condition	Customer proceeds to sign up page.	
Post condition	Customer proceeds to checkout.	
Assumptions	<ol style="list-style-type: none"> 1. Customer doesn't have an account. 2. Customer order/s placed on the cart. 	

Name	Checkout	
Actor	Customer	
Description	After placing an order, the customer proceeds to checkout.	
Successful Completion	User: 1. Customer places an order 2. Customer clicks "Checkout" button 3. Includes use case 'Login'	System Response: 1. System displays order details 2.1 System displays checkout page
Alternative	2.1.1 Customer cancels checkout	
Pre-condition	Customer placed an order	
Post condition	Customer proceeds to payment	
Assumptions	1. Customer's order is final.	

Name	Payment
Actor	Customer
Description	After placing an order, the customer proceeds to checkout, and the customer proceeds to payment.

Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Customer places an order 2. Customer clicks "Checkout" button. 3. Customer proceeds to payment. 4. Customer chooses preferred method of payment. 5. Includes use case 'Login' 	<p>System Response:</p> <p>3.1 System will ask the customer what type of payment.</p>
Alternative	<ol style="list-style-type: none"> 1. Customer cancels payment. 	
Pre-condition	Customer has finished checkout phase	
Post condition	System will display order details, preferred mode of payment and payment status.	
Assumptions	Customer is ready for payment.	

Name	Browse products	
Actor	Customer	
Description	Customer views categories.	
Successful Completion	User: 1. Customer hovers on categories 2. Customer clicks on "Products"	System Response: 2.1 System displays product catalog
Alternative	2. Customer selects "About us " 3. Customer selects "Product" 4. Customer selects "Contact Us"	
Pre-condition	Customer must be inside the homepage.	
Post condition	Customer proceeds to log in/ sign up	
Assumptions	Customer chose a product	

Name	Create account	
Actor	Customer	
Description	Before ordering, the customer must create an account.	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. The customer selects the option to create an account 2. The customer enters their username, email address and password 	<p>System Response:</p> <ol style="list-style-type: none"> 1. System displays the "Create an account" page.
Alternative	<ol style="list-style-type: none"> 2.1 Invalid email address or taken. 2.2 Username is taken 2.3 Password is too short 2.4 Required input is missing 2.5 Password and confirm password doesn't match. 	
Pre-condition	Customer clicks create an account button	

Name	Login	
Actor	Customer	
Description	Before logging in, the customer must create an account.	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Customer proceeds to log in 2. Customer enters username and password 3. Includes use case 'Create Account' 	<p>System Response:</p> <ol style="list-style-type: none"> 1. System displays the "login" page.
Alternative	<ol style="list-style-type: none"> 1. Either username or password or both is invalid. 2. Customer forgot his/her password and needs to click the "Forgot your password" link. 	
Pre-condition	Customer must click "login" button.	
Post condition	System will redirect customer to their account page.	
Assumptions	Customer has registered account.	

Name	View Order	
Actor	Admin	
Description	Sales Staff views order of customer	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Sales Staff logs in 2. Sales staff enters his/her username and password 3. Sales Staff clicks on view orders button 4. Sales staff processes the order one by one. 5. Includes use case 'Login' 	<p>System Response:</p> <ol style="list-style-type: none"> 1.1 System displays "System login" page 1. System displays list of orders sorted by most recent
Alternative	<ol style="list-style-type: none"> 1. Either username or password or both is invalid. 2.2 Sales staff forgot his/her password and needs to click the "Forgot your password" link. 3.1 Customer cancels order 	
Pre-condition	Sales Staff must have a registered account in the system.	
Post condition	System will update and display the details processed by the sales staff	
Assumptions	Sales Staff has an account, Product that has been ordered by the customer is available	

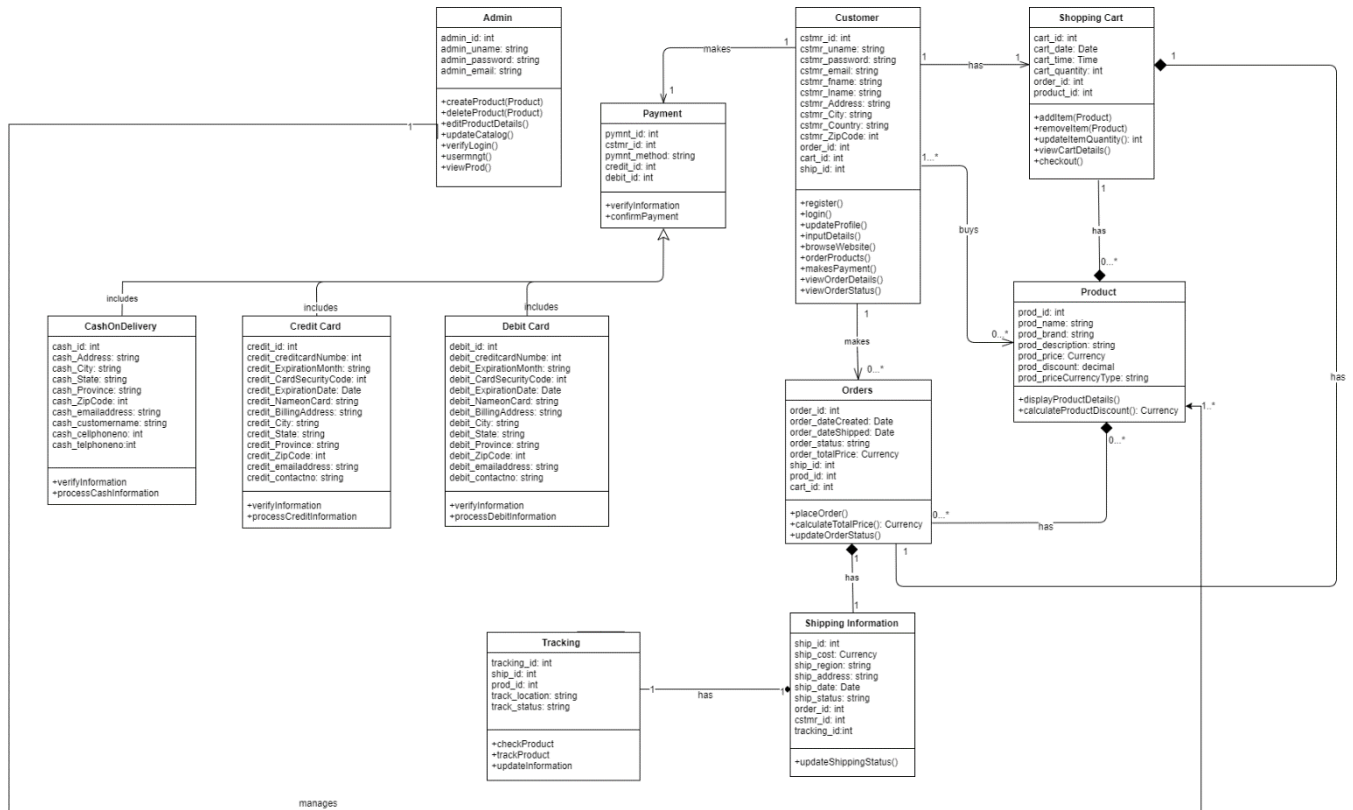
Name	Update Inventory	
Actor	Admin	
Description	Admin checks for inventory to be able to check product availability, admin can also edit the inventory.	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Admin enters his/her username and password 2. Admin selects "Update inventory" 3. Admin inserts image/s or description in the product details 4. Admin selects "Save Changes" 5. Includes use case 'Login' 6. Extends use case 'Generates Report' 	<p>System Response:</p> <ol style="list-style-type: none"> 1. System will display "Administrator panel" 2.1 System displays the list of products 4.1 System displays updated inventory page
Alternative	<ol style="list-style-type: none"> 1.2 Admin's username or password is invalid. 2. Admin selects "Sales record" 1. Admin edits product quantity 	
Pre-condition	Admin must have an appropriate username and password. Admin must log in.	
Post condition	System displays updated inventory	
Assumptions	Admin has an account.	

Name	Edit order	
Actor	Customer	
Description	Before the customer proceeds to checkout, the customer decided to edit his/her order.	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Customer clicks on categories 2. Customer clicks on "Products" 3. Customer chooses a product 4. Customer selects add to cart 5. Customer places an order 6. Customer selects "Edit Order" 7. Includes use case 'Login' 	<p>System Response:</p> <ol style="list-style-type: none"> 1.1 System displays product catalog. 4.1 System displays list of item/s selected. 6.1 System displays edit order page.
Alternative	6.1 Customer proceeds to checkout	
Pre-condition	Customer logs in	
Post condition	System will display customer's updated order	
Assumptions	Customer must have an order Customer has an account	

Name	Confirm Order	
Actor	Admin	
Description	This Use case describes when admin will confirm all customer order.	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Admin clicks on order 2. Admin confirm orders button. 3. Includes use case 'Login' 	<p>System Response:</p> <ol style="list-style-type: none"> 1.1 System displays "order" page 2.1 System displays "confirm" status
Alternative	2. Admin did not confirm order	
Pre-condition	A customer submit order	
Post condition	Admin will display status of the order	
Assumptions	Customer already has specific functions that they're looking for	

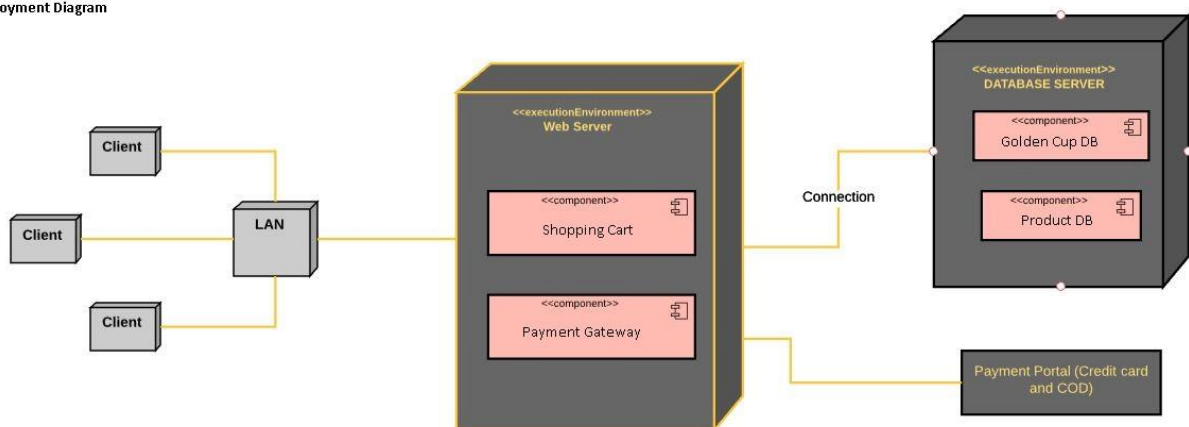
Name	Generates Report	
Actor	Admin	
Description	The admin can monitor the sales by generating reports	
Successful Completion	<p>User:</p> <ol style="list-style-type: none"> 1. Admin clicks orders 2. Admin choose date to generate report 3. Extends use case 'Update Inventory' 	<p>System Response:</p> <ol style="list-style-type: none"> 1.1 System displays order page 2.1 System displays order reports
Alternative	2.1.1 Admin print reports	
Pre-condition	Customer logs in	
Post condition	System will report.	

d. Class Diagram

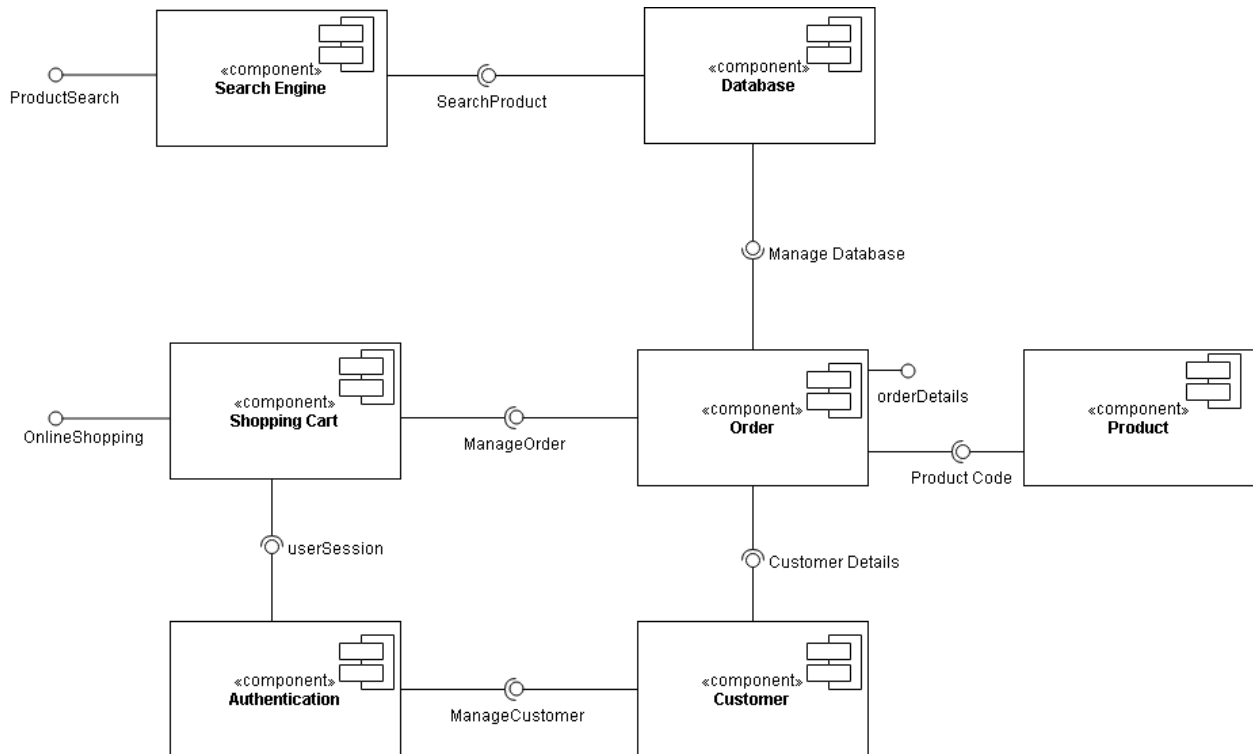


e. Deployment Diagram

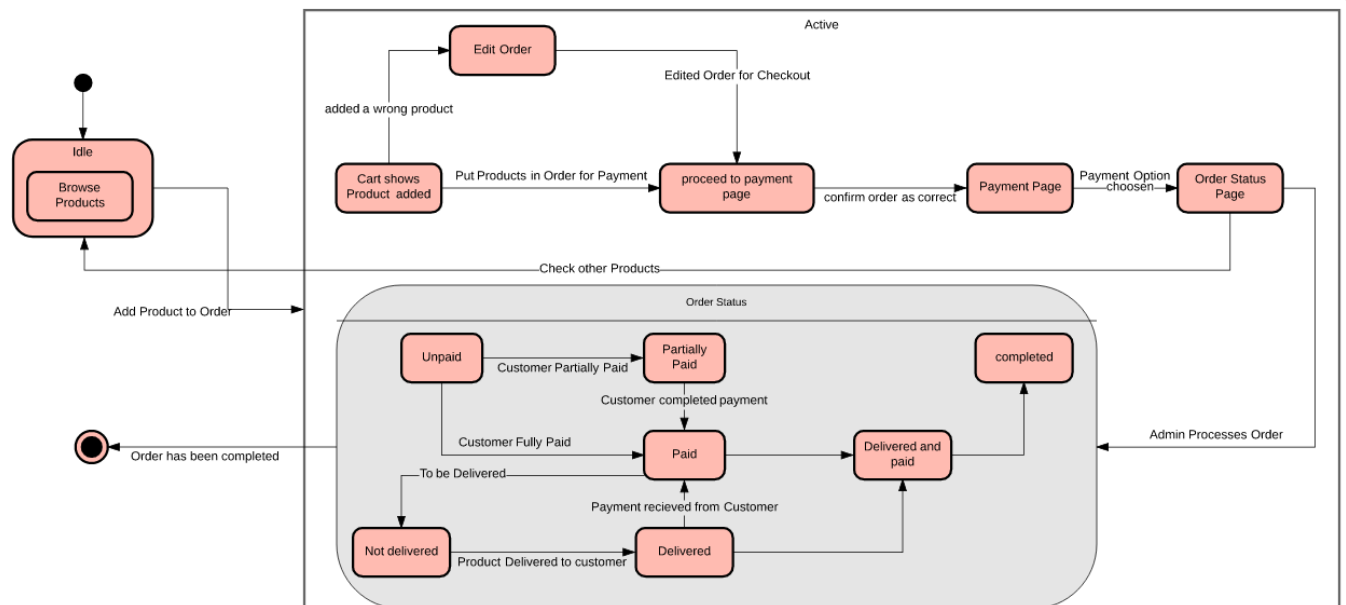
Deployment Diagram



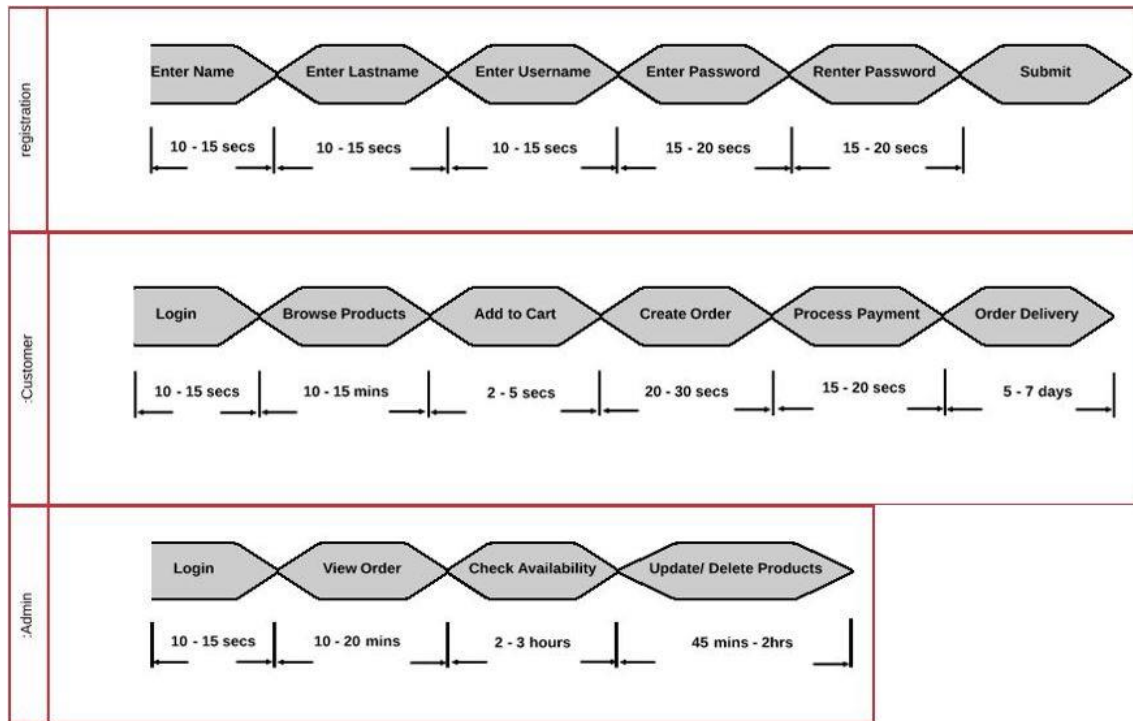
g. Component Diagram



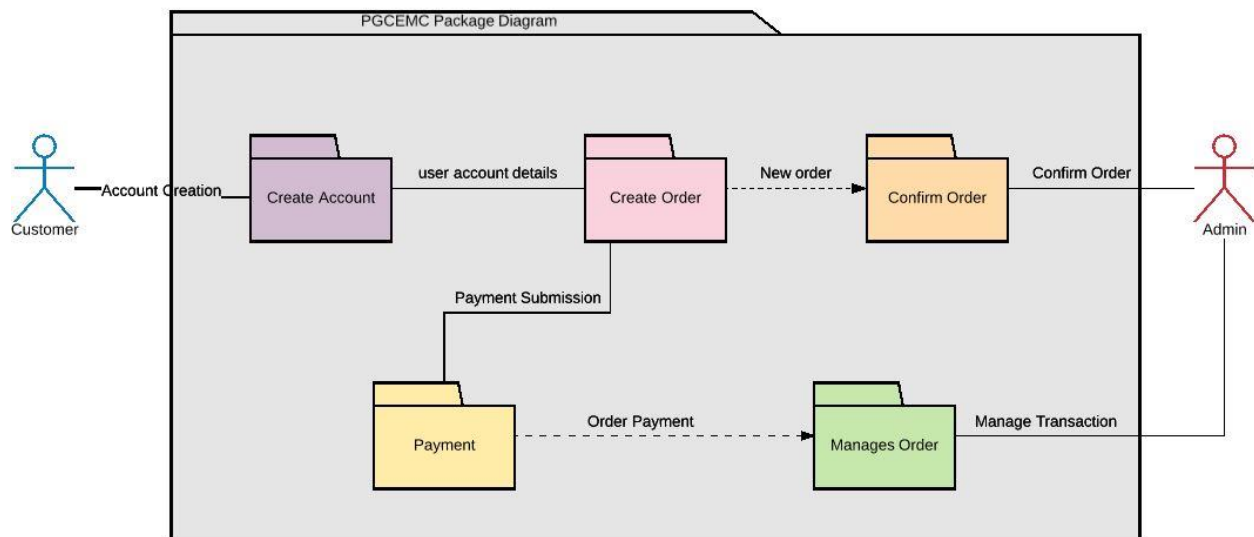
h. State Diagram



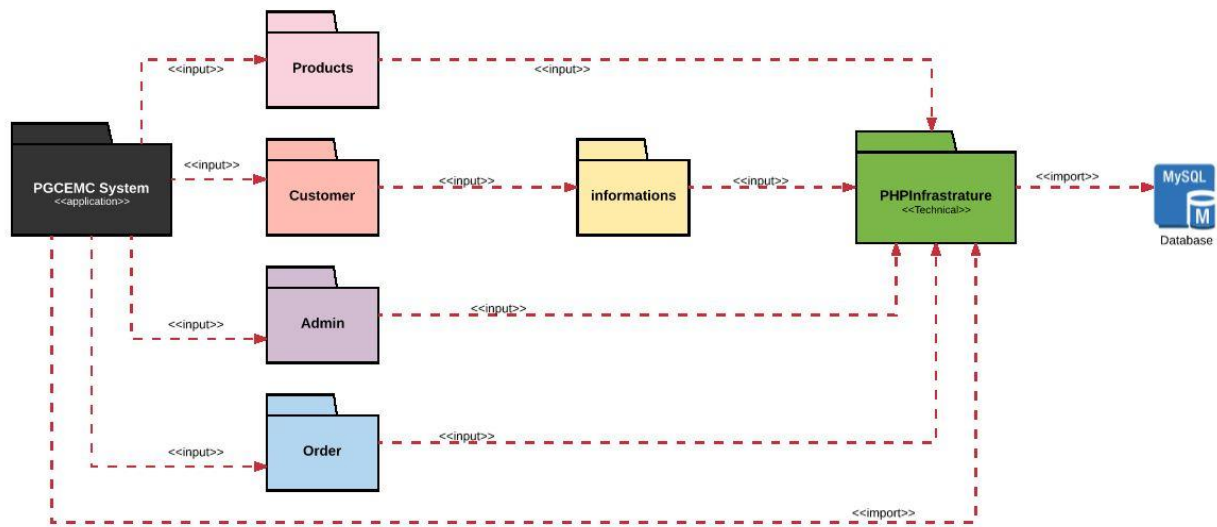
i. Timing Diagram



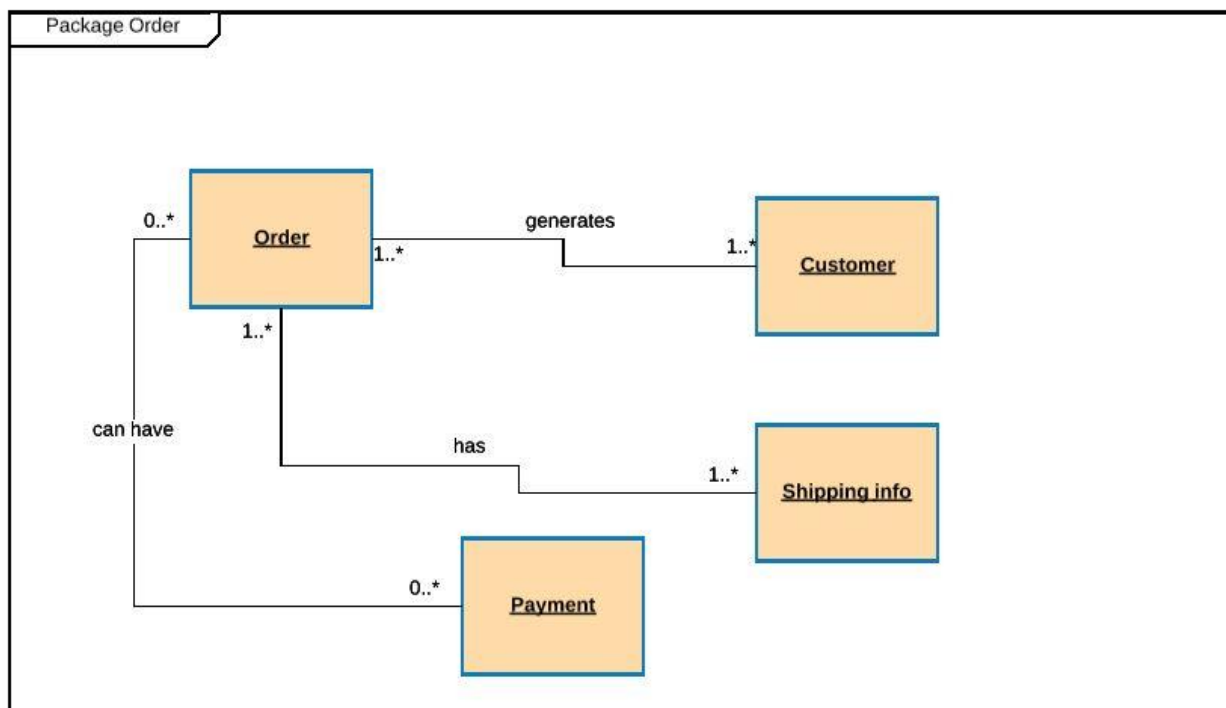
j. Package Diagram



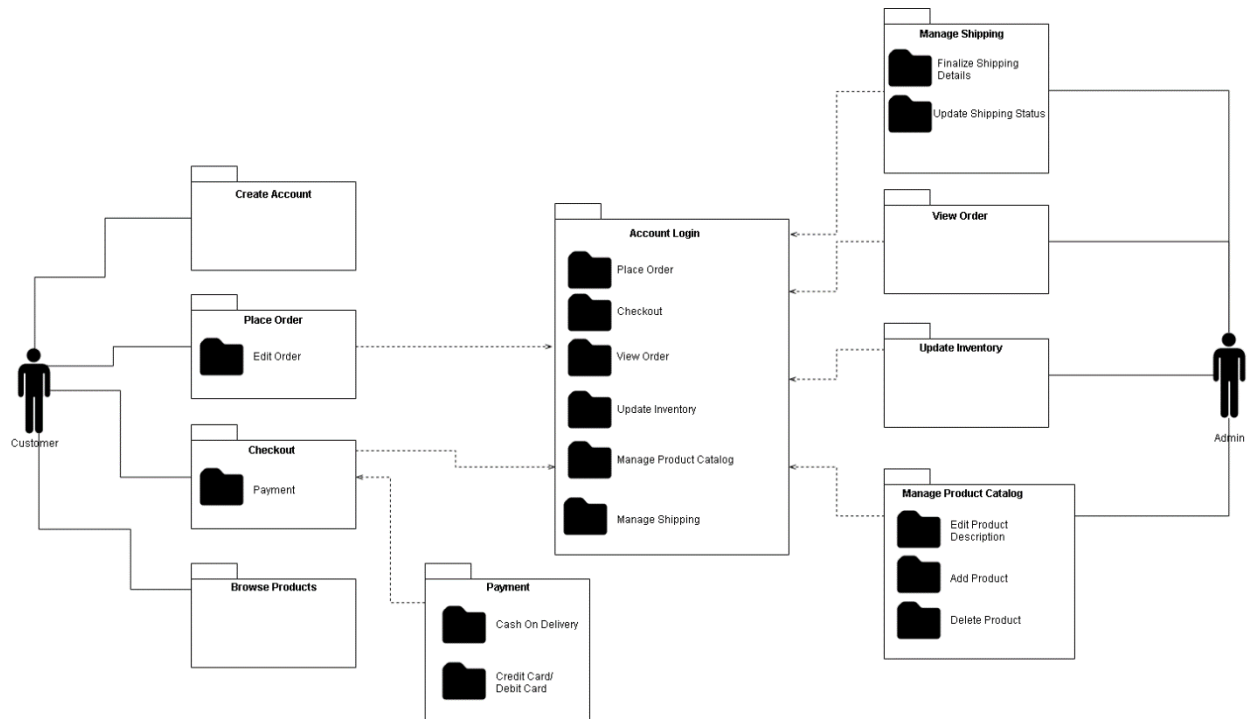
k. Class Package Diagram



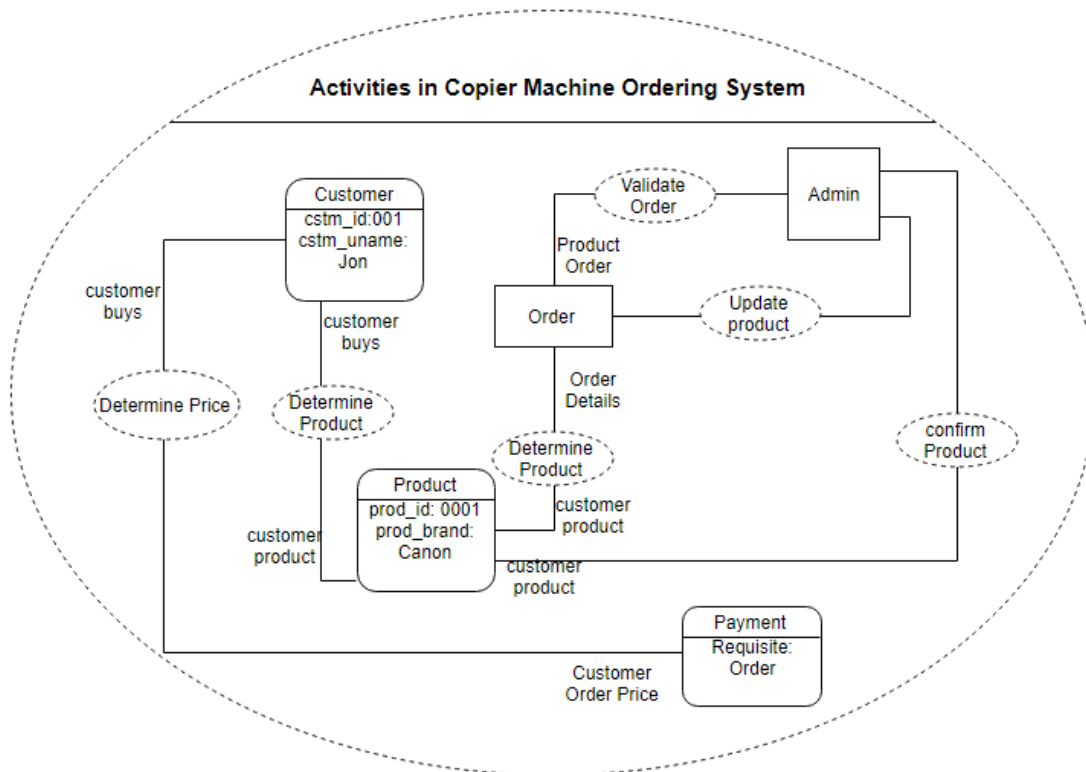
l. Data Package Diagram



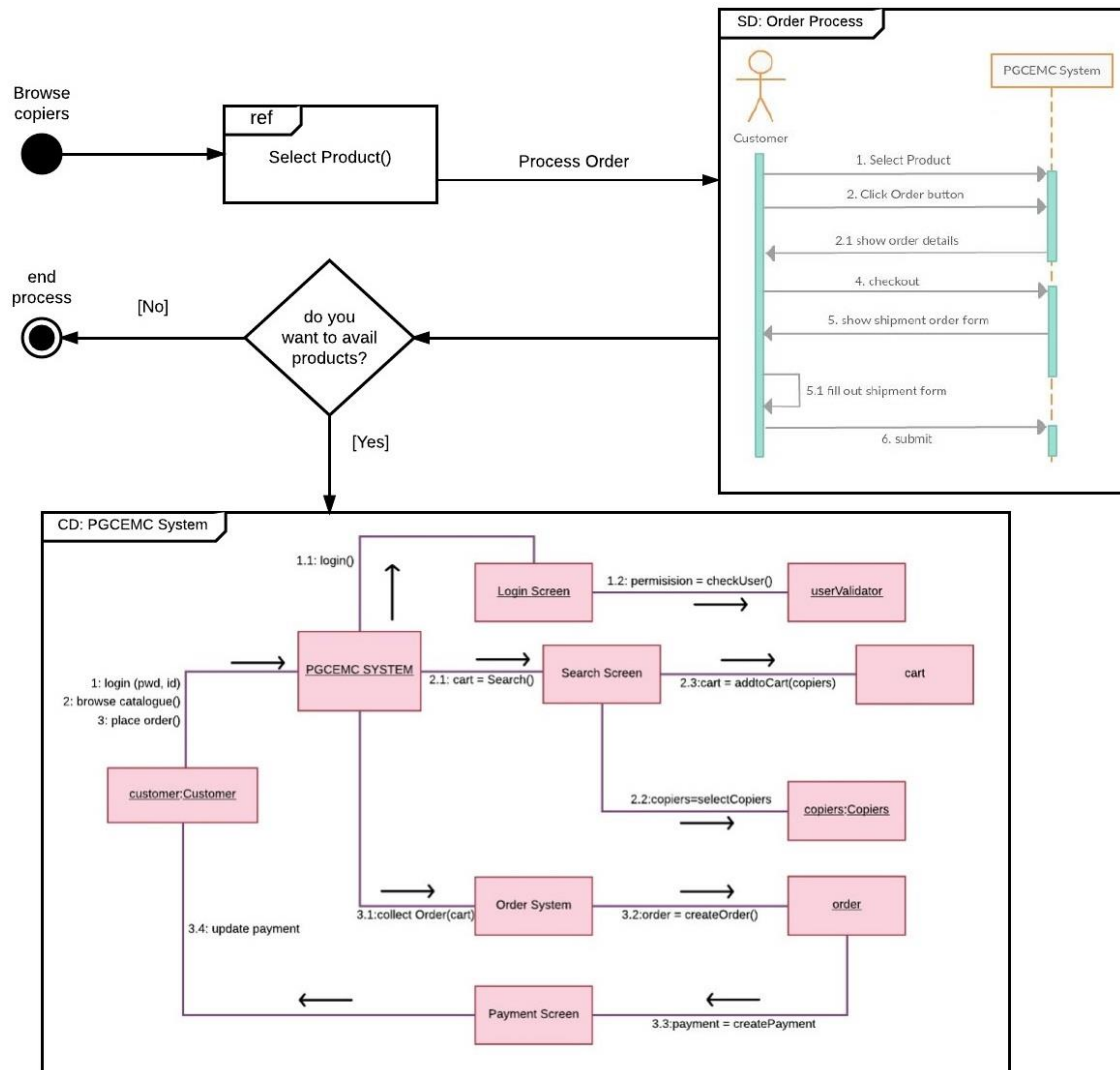
m. Use Case Package Diagram



n. Composite Structure Diagram

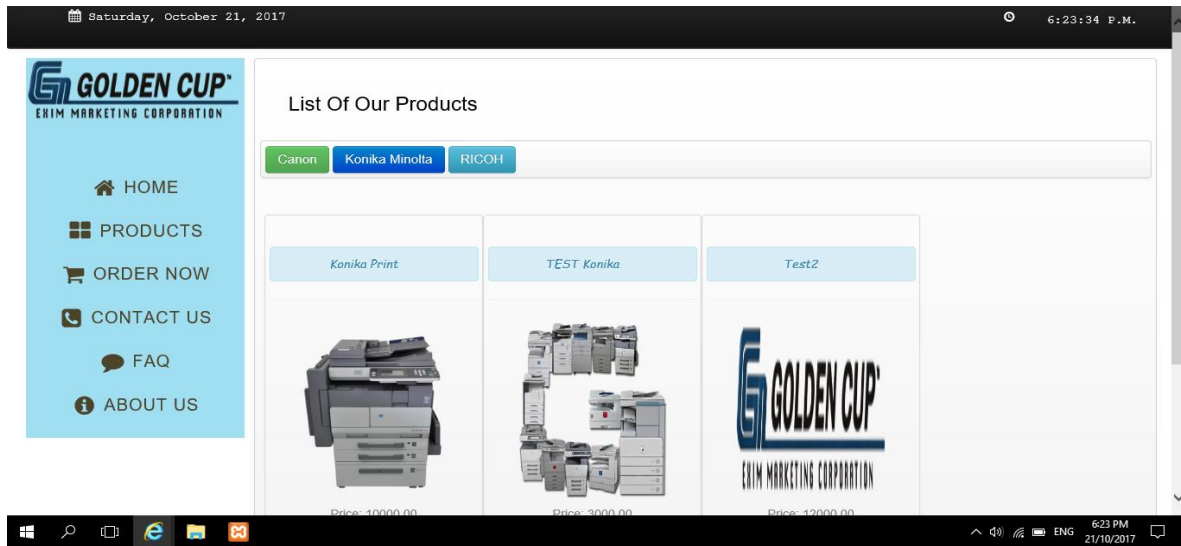


o. Interaction Overview Diagram

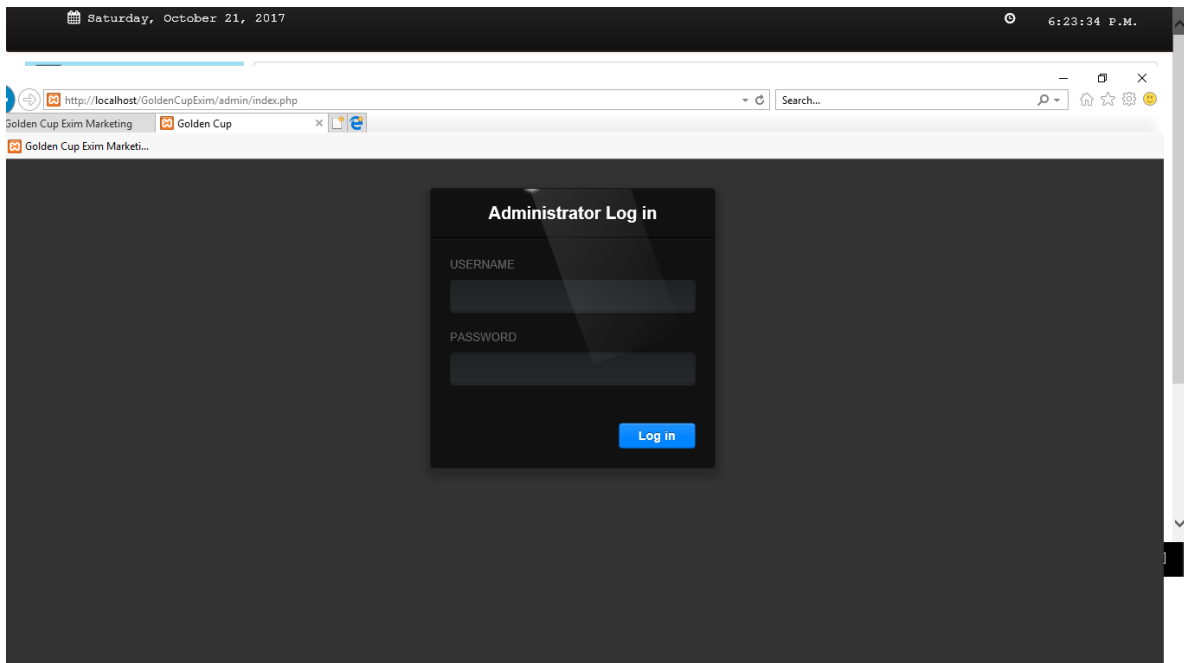


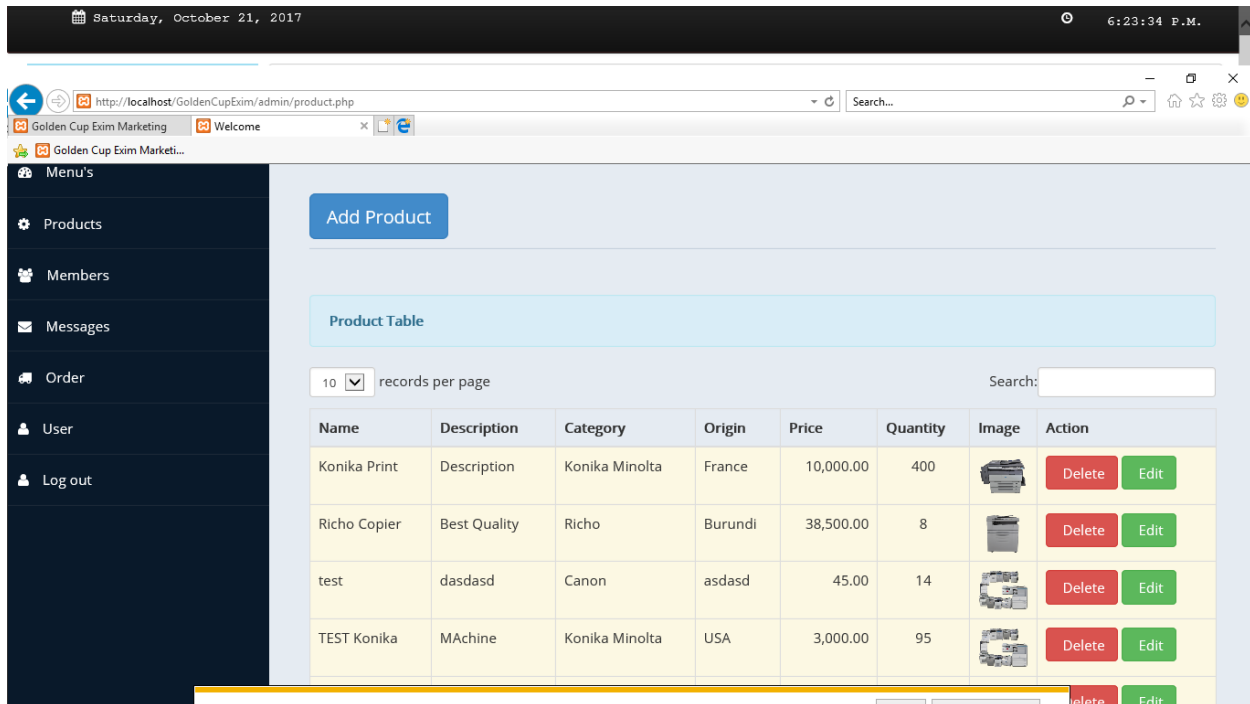
5.5 Description of the Prototype

1. Front End



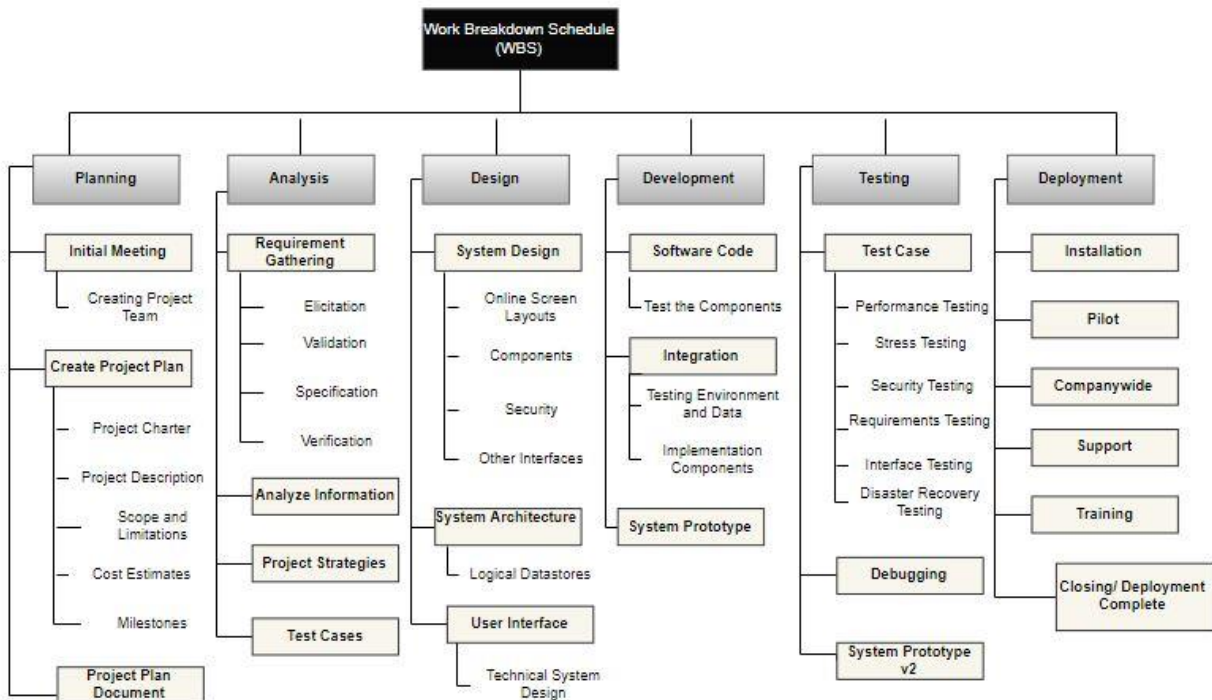
2. Back End





























5.6 Implementation Plan

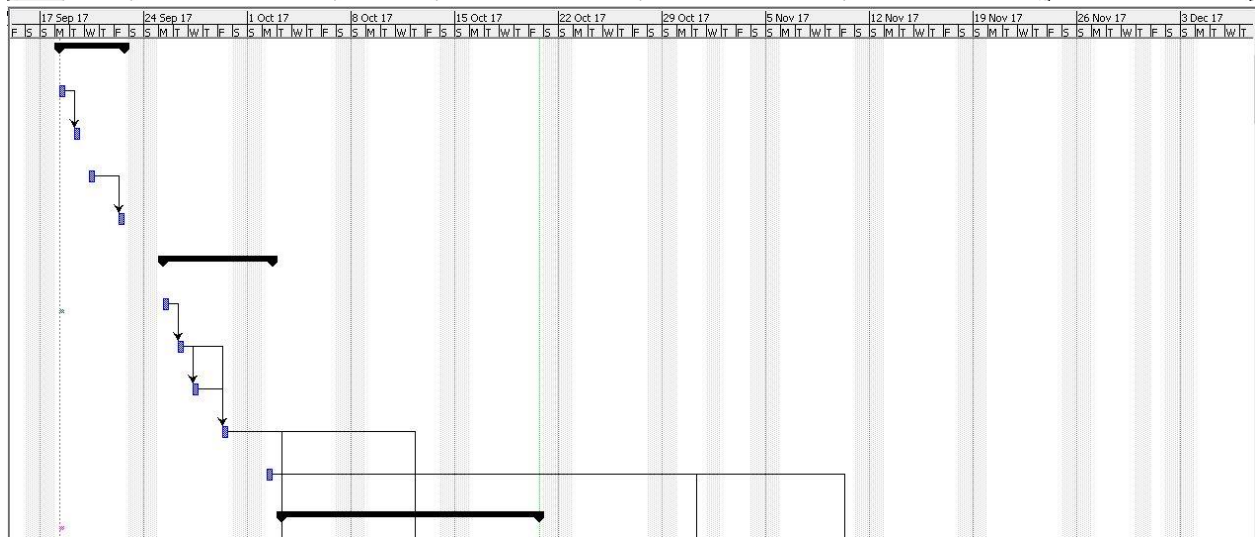
a. WBS (Work Breakdown Structure)

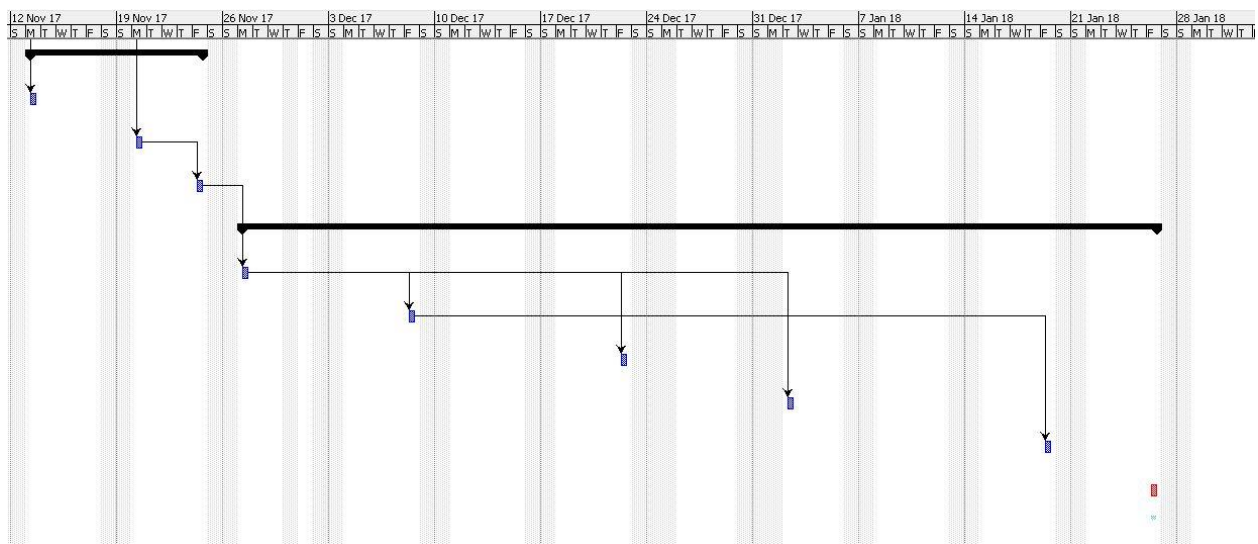
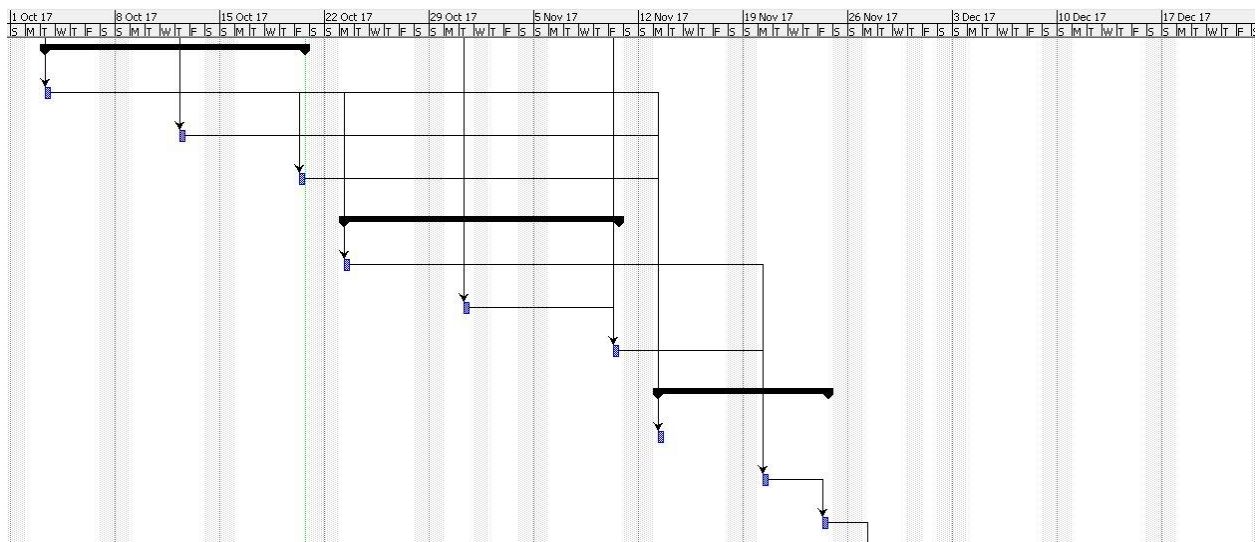


b. Gantt Chart

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		 Planning	5 days?	9/18/17 8:00 AM	9/22/17 5:00 PM		MAGNAYE
2		Initial Meeting	1 day?	9/18/17 8:00 AM	9/18/17 5:00 PM		
3		Create Project Team	1 day?	9/19/17 8:00 AM	9/19/17 5:00 PM	2	
4		Create Project Plan	1 day?	9/20/17 8:00 AM	9/20/17 5:00 PM		
5		Project Plan Document	1 day?	9/22/17 8:00 AM	9/22/17 5:00 PM	4	
6		 Analysis	6 days?	9/25/17 8:00 AM	10/2/17 5:00 PM		NAVAL
7		Requirement Gathering	1 day?	9/25/17 8:00 AM	9/25/17 5:00 PM		
8		Provide Questionnaires	1 day?	9/26/17 8:00 AM	9/26/17 5:00 PM	7	
9		Conduct an Interview	1 day?	9/27/17 8:00 AM	9/27/17 5:00 PM	8	
10		Analyze Information	1 day?	9/29/17 8:00 AM	9/29/17 5:00 PM	8;9	
11		Create Initial GUI screens	1 day?	10/2/17 8:00 AM	10/2/17 5:00 PM		
12		 Design	14 days?	10/3/17 8:00 AM	10/20/17 5:00 PM		ROCERO
13		System Design	1 day?	10/3/17 8:00 AM	10/3/17 5:00 PM	10;11	
14		System Architecture	1 day?	10/12/17 8:00 AM	10/12/17 5:00 PM	10;11;13	
15		User Interface	1 day?	10/20/17 8:00 AM	10/20/17 5:00 PM	13;14	
16		 Development	14 days?	10/23/17 8:00 AM	11/10/17 5:00 PM		PIOL
17		Software Code	1 day?	10/23/17 8:00 AM	10/23/17 5:00 PM	13;14;15	
18		Integration	1 day?	10/31/17 8:00 AM	10/31/17 5:00 PM	11;13;14;15;17	
19		System Prototype	1 day?	11/10/17 8:00 AM	11/10/17 5:00 PM	11;13;14;15;17;18	

20		Testing	10 days?	11/13/17 8:00 AM	11/24/17 5:00 PM	
21		Test Case	1 day?	11/13/17 8:00 AM	11/13/17 5:00 PM	13;14;15;19
22		Debugging	1 day?	11/20/17 8:00 AM	11/20/17 5:00 PM	17;19
23		System Prototype v2	1 day?	11/24/17 8:00 AM	11/24/17 5:00 PM	22
24		Deployment	42 days?	11/27/17 8:00 AM	1/26/18 5:00 PM	
25		Installation	1 day?	11/27/17 8:00 AM	11/27/17 5:00 PM	23
26		Pilot	1 day?	12/8/17 8:00 AM	12/8/17 5:00 PM	25
27		Companywide	1 day?	12/22/17 8:00 AM	12/22/17 5:00 PM	25;26
28		Support	1 day?	1/2/18 8:00 AM	1/2/18 5:00 PM	25
29		Training	1 day?	1/19/18 8:00 AM	1/19/18 5:00 PM	26
30		Closing/ Deployment Compl	1 day?	1/26/18 8:00 AM	1/26/18 5:00 PM	





c. Activity List

Activity #	Activity Name	Activity Name Description	# of Days	Start Date	Dependency	Milestone
1	Project Plan Document	Business Requirements	5	09/22/17		Documentation Quality

2	Design	System Architecture	14	10/03/17		Finalized System Design
3	Develop	System Development	14	10/23/17		Blueprint Prototype
3.1	Code	Code Sub - routine	14	10/23/17	Develop	Software Coding
3.2	Integrate	Integrate Sub-routine	14	10/31/17		
4	Test	System Software Testing	10	11/13/17		Start Software Testing
4.1	Test	Review Test Plan	10	11/13/17		
4.2	Test	Final Testing	10	11/13/17		Testing Completion
5	Implementation	Implement System	42	11/27/17		
6	Training	Provide User Training	42	01/19/18		Training Certificate and Manuals
7	Support	Provide User Support	42	01/02/18		

A. Vision and Scope

Business Requirements

The Team requires to develop an automated web-based ordering system for Golden Cup Exim Marketing Corporation that allows the customers to purchase copier machines, printers, parts and toners. In addition, the automated

web-based ordering system will comprise of Create an Account, Login, Search Products, Add item/s to Cart, Process Payment and Trace Order.

Background

Golden Cup is an established company formed since 1987 with years of experience in sales, rentals and services of reconditioned and brand-new copier machines. Our aim is “to provide efficient and affordable copier machines” to customers. Golden Cup is the company you can count on.

Our core business is the reconditioning, sales and services of copier machines which are imported and only good quality machines are selected. A very stringent quality control process is enforced to ensure the best quality end product.

All fully reconditioned copiers come with a “quality checklist” approved by our senior technical consultant before sending to clients. Hence, you are assured of getting a top-quality copier machine from Golden Cup.

At Golden Cup, our top priority is to provide prompt and effective service to keep customers happy and satisfied.

Business Opportunity

According to Entrepreneur Network there are many great reasons to start an ecommerce business. If you're interested in being your own boss and selling products you are passionate about, it's something worth considering.

It is a good start for Golden Cup Exim Marketing Corporation, since the company business is an e-commerce the possibility to double the profit is high.

According to Philippine Internet User about 43.5% of the Filipino are using the internet, imagine if some of those 43.5% users are in need of Copier Machines, Printers, Parts and Toners and purchase directly to the developed automated ordering system of Golden Cup Exim Marketing Corporation, it is a big help for the company to be recognized that can lead to increase the number of customers that may cause to double the profit of the company.

Business Objectives and Success Criteria

Business objectives or goals are very significant in creating a project because it provides guidance and direction and it must be measurable and quantifiable given on the limited amount of time. The following are the general and specific objectives or goals of Project Golden Cup: Copier Machines Ordering System.

General Objective(s):

To developed an automated and dynamic ordering system for Golden Cup Exim Marketing Corporation that can help customers to experience efficiency and effectiveness of processing orders.

Specific Objective(s):

- To develop an easy navigation web-based application for customers and owner.
- To develop a dynamic web-based application to change the company current running static website.
- To display an Item List for customers to easily view the products as well as automatically display all prices of the products.

- To help administrator to create business analytics and generate reports.

Success Criteria(s):

- The Project Golden Cup: Copier Machines Ordering System meets its objectives.
- The management of Golden Cup Exim Marketing Corporation is satisfied with the result of the Project, and it accomplished all the business requirements according to what agreed upon.
- The management of Golden Cup Exim Marketing Corporation can have a new automated ordering system that can be used to sell copier machines, printers, part and toners via online.
- The customers can easily purchase to the new automated system.

Customer or Market Needs

According to Strategyn, under the article *“Know all the customers’ needs”* The success of every company is dependent on its ability to create products and services that address unmet customer needs. So, what are the customer or market needs in terms of purchasing online, customer tell us that they seek to (1) minimize the time it takes to choose desired products, (2) minimize the interaction between the customer and system, (3) easy to understand purchasing process, (4) experience security and protection.

These needs are very helpful to the Team, knowing customer or market needs builds the foundation on how the system will be developed. So, for Project Golden Cup: Copier Machines Ordering System the Team decided to focus on easy

purchasing process by showing the available products to customers, followed by the chosen products will be added in to the cart and can edit the quantity or removed the product. And last, the payment part will be easy, customers have the authority to choose what type of payment they want either cash on delivery (COD) or credit/debit card.

The constraint will be, the customers need to login or have an account first to proceed paying orders, in this constraint it will secure and protect the day to day transactions between the customers and management.

Business Risks

Not all improvements in businesses are always positive. Every improvement has risks and it must be known in order for the organization to be prepared for in case the negative effects occurred. Project Golden Cup: Copier Machines Ordering System is an improvement that has some disadvantages.

In terms of time, since this is an automated system, the management might not adapt the changes easily since they are still using a manual processing of orders, it will allocate time for the Team to conduct a manual tutorial on how per modules of the system work.

In terms of expenses, since the Golden Cup Exim Marketing Corporation operates its business 30 years from now, the software that they are using such as Operating System, and other Utilities are all outdated. On the other hand, the hardware, of the company still CRT (Cathode-Ray Tube) Monitors. In this case the implementation of the system in the company will be harder, due to the Team need to change the software and the hardware that will fit to the new automated ordering system of the company.

So, the Team think of techniques on how to fix these problems as soon as possible. The Team decided to conduct a meeting with their Project Adviser to get some suggestions and recommendations. And both decided to inform the

company that if they want to have a manual tutorial to the system they need to consider the Team available time as well as the expenses of upgrading the software and hardware of the company that in the end it will be a win-win situation between the Golden Cup Exim Marketing Corporation and the Team.

Vision of the Solution

The system will solve the long-term problem of the company in terms purchasing copier machines, printers, parts and toners; The customer will experience the efficiency and effectiveness of ordering. In addition, both Golden Cup Exim Marketing Corporation and the Team will be achieved a win-win situation.

Vision Statement

As Golden Cup Exim Marketing Corporation moves towards its objective to be the first thing that comes to mind when purchasing copier machines, printer, parts and toners. The Project Golden Cup: Copier Machines Ordering System is also supporting the company goal by giving a larger market that is convenient for both management and customers.

Major Features

The following are the major features of Project Golden Cup: Copier Machines Ordering System

- Purchase History
- Order Management
- Account Management
- Admin Management

Assumptions and Dependencies

The Team assumed that there are no delays when implementing the system to the company. In addition, when conducting the manual tutorial for the company the Team assumed that it will be easy for the employee to follow each step. For customers, the Team assumed that it is will be easy for them to purchase copier machines, printers, parts and toners.

The availability of the copier machines, printers, parts and toners will be dependent on the supplier. On the other hand, the confirmation of the orders will be dependent on admin.

Scope and Limitations

The Scope of the project would be, to develop an automated web-based ordering system for Golden Cup Exim Marketing Corporation that has a major feature of Purchase History, Order Management, Account Management and Admin Management.

The limitations of the project would be:

- The automated system is only for Golden Cup Exim Marketing Corporation.
- The customer cannot proceed to checkout without Logging in to the system.
- The system will only sell Copier Machines, Printers, Parts and Toners.
- The system is not responsive and does not have a mobile version.
- The system would not run without Internet Access.
- The conducting of manual tutorial of the system is not included on to the time frame that is given by the Team.

Scope of Initial Release

The Project Golden Cup will be having a major feature like Purchase History, wherein all the products that bought by the customer will save to the database that can be used to generate reports and create business analytics. Order Management, wherein all the products that has been added to cart can be edit by the customer and be able to adjust the quantity of the product and or removed order. The customer can also cancel order within a specific time. Account Management, wherein customers can edit his/her account profile from changing Account Name up to Updating Password. Last, Admin Management, wherein admin can manage customer order/s whether it will be confirmed or not. In addition, in this portion the admin can set the products to available or not available status.

Scope of Subsequent Releases

The Project Golden Cup: Copier Machines Ordering System has four major features which are Purchase History, Account Management, Admin Management and Order Management. Later on, when the system has been developed some additional components like mobile version or responsive system are assumed to be develop in separate time frame.

Limitations and Exclusions

The Project Golden Cup is limited to customer who have an authentication account and an internet access. The website can only access through desktop or laptop. As of now we don't have mobile version since our client agreed only for developing and enhancing their ordering system.

Business Context

When the development of the Project Golden Cup: Copier Machines Ordering System finished, the Team expected that the major customer of the system would be everyone who needs copier machines, printers, parts and toners. And assumes that system will give efficiency and effectiveness when it comes to ordering process compare to company current running static website.

Stakeholder Profiles

Stakeholder	Major Value	Attitudes	Major Interests	Constraints
Client	Monitors the system	Monitoring the overall sales and inventory. Checking the functionalities of the system.	Ease of use; high reliability and profitable	Low BUDGET
Customer	Receiver of most of the major features	Browsing the system and purchasing copiers, printer, parts and toners	Richer feature set. Easy to use and understand	No Internet Access and No Customer Account
The Team	Developed the system.	Fixing bugs and errors within the system. Committed and patience in fixing problems	Full functionalities of the system.	Lack of Time Management and Preparation
Project Advisor	Monitoring and checking the	Good QA.	Less error of the system	Lack of Time

	development of the system			
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Project Priorities

<i>Dimension</i>	<i>Driver (state objective)</i>	<i>Constraint (state limits)</i>	<i>Degree of Freedom (state allowable range)</i>
<i>Schedule</i>	Release 1.0 to be available at the end of the course	Time Constraint	90-100% of the utility functions must be done.
<i>Features</i>	The System must properly be working.	Budget and Time	70-80% of high priority features must be included in release 1.0
<i>Quality</i>	Provides easy web based ordering system to customer.	Error and Bugs in the system	90-95% of user acceptance tests must pass for release 1.0, 95-98% for release 1.1
<i>Staff</i>	The team must objective oriented and aim for project completion.	Maximum team size is 3 developers + 2 testers.	90-100% of the allowable time should be achieve for release 1.0.
<i>Cost</i>	The overall expense in the project must fit in the maximum budget.	Maximum Budget	budget overrun up to 15% acceptable without executive review

Operating Environment

The foundation of the system will be PHP Scripts using software Dreamweaver. Primarily the user of the system will be business related personnel and office workers, and it includes also the usability of the system that will function 24/7.

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