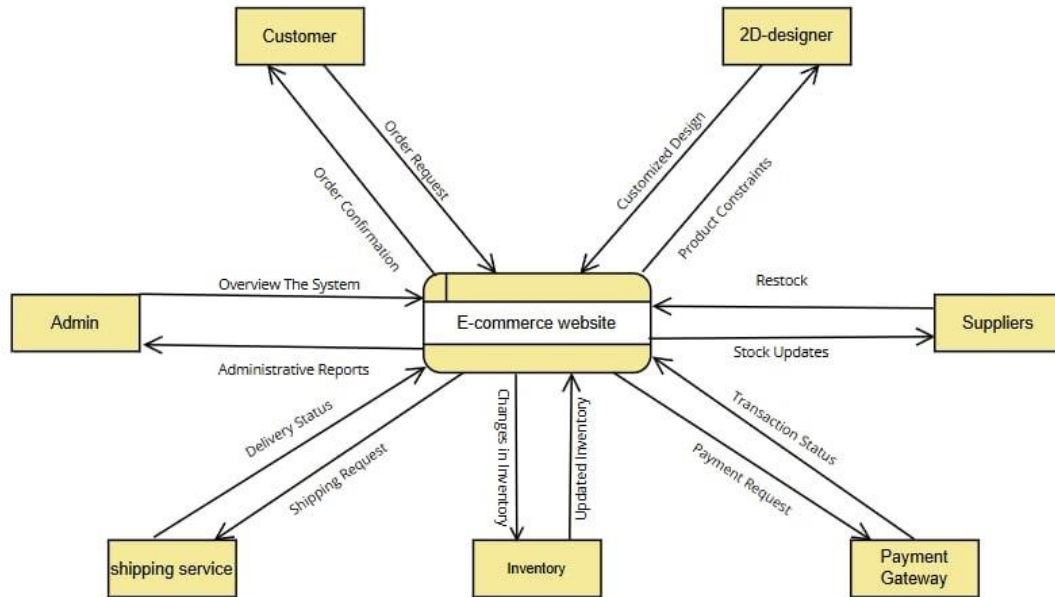


Data Flow Diagram Level 0

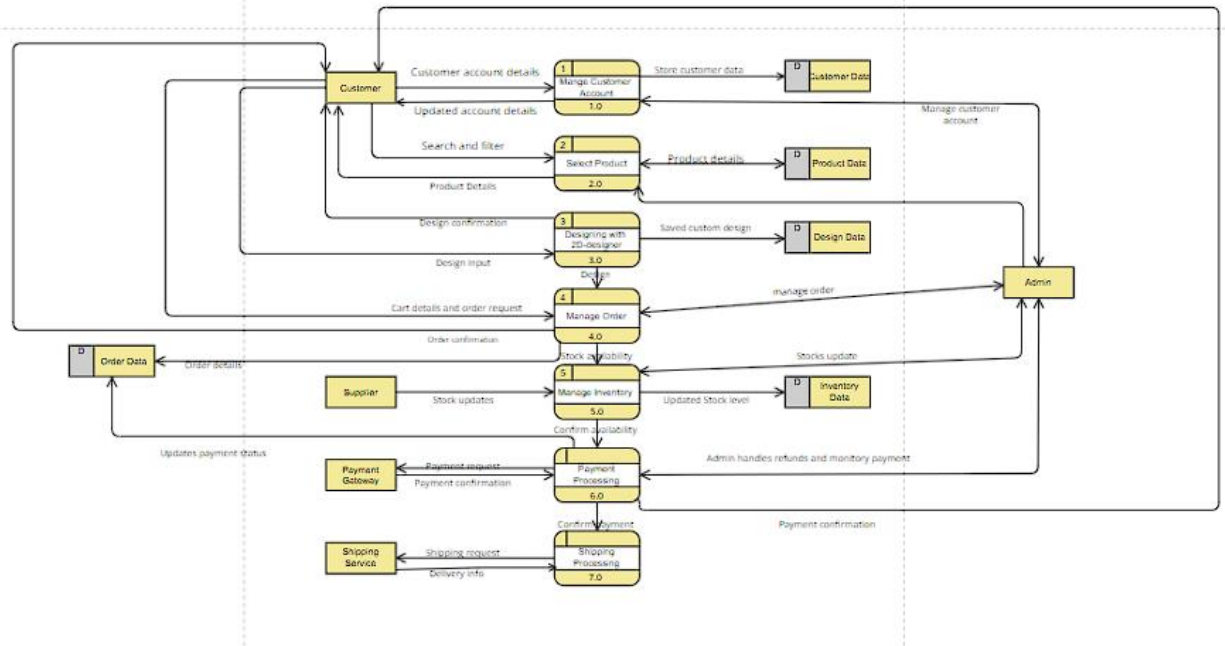
DFD LVL 0 (CONTEXT DIAGRAM)



Data Flow Diagram Level 1

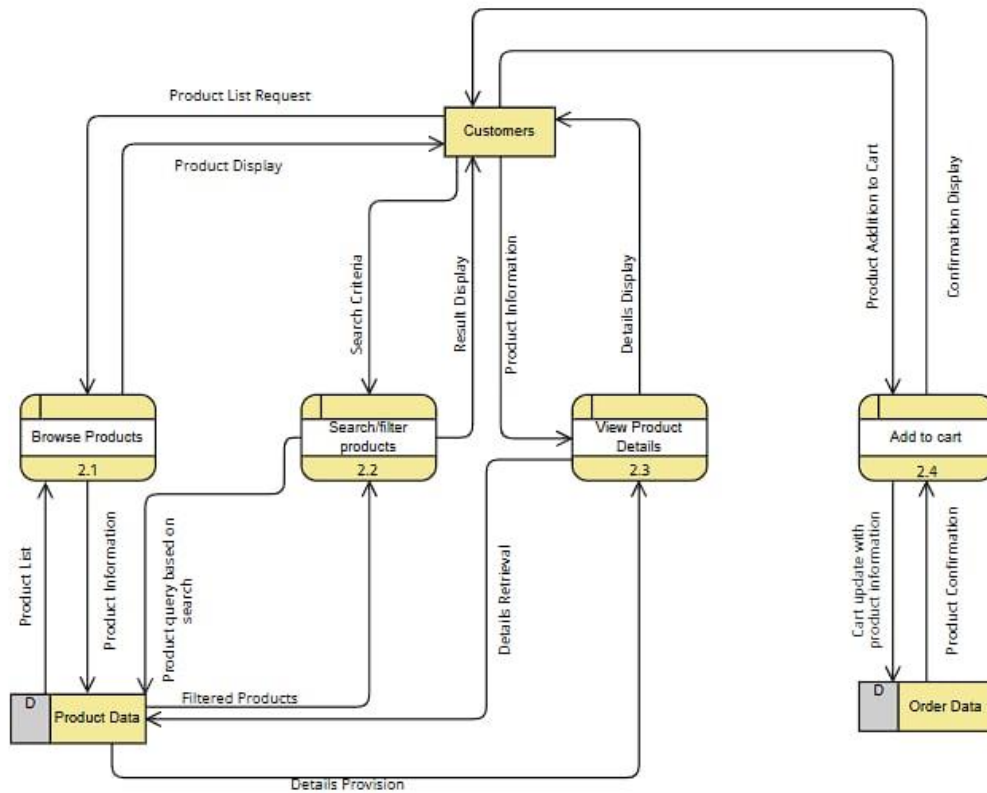
LEVEL 1 DFD

Data Flow Diagram (Level 1)

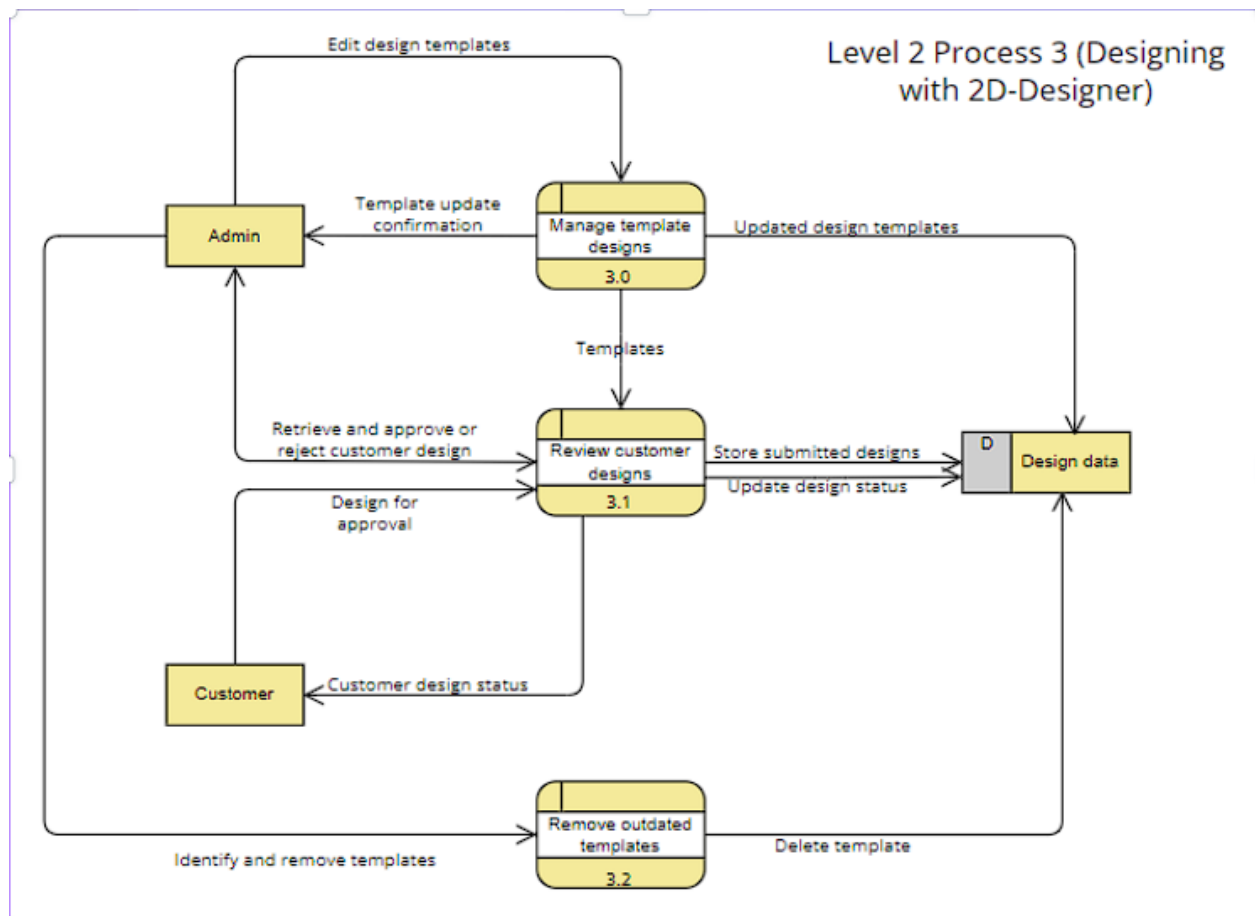


Data Flow Diagram Level 2 Process 2

LEVEL 2 PROCESS 2 (PRODUCT SELECTION)

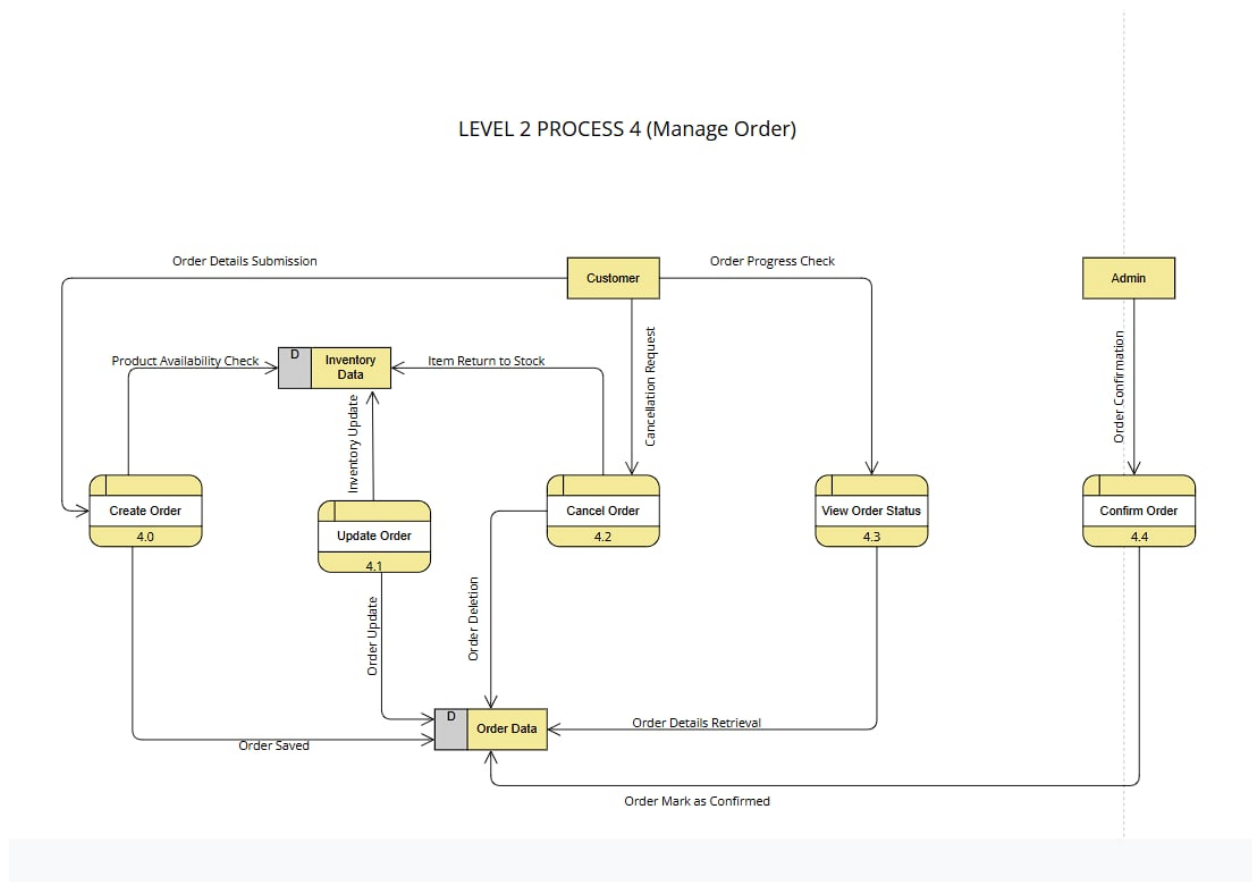


Data Flow Diagram Level 2 Process 3



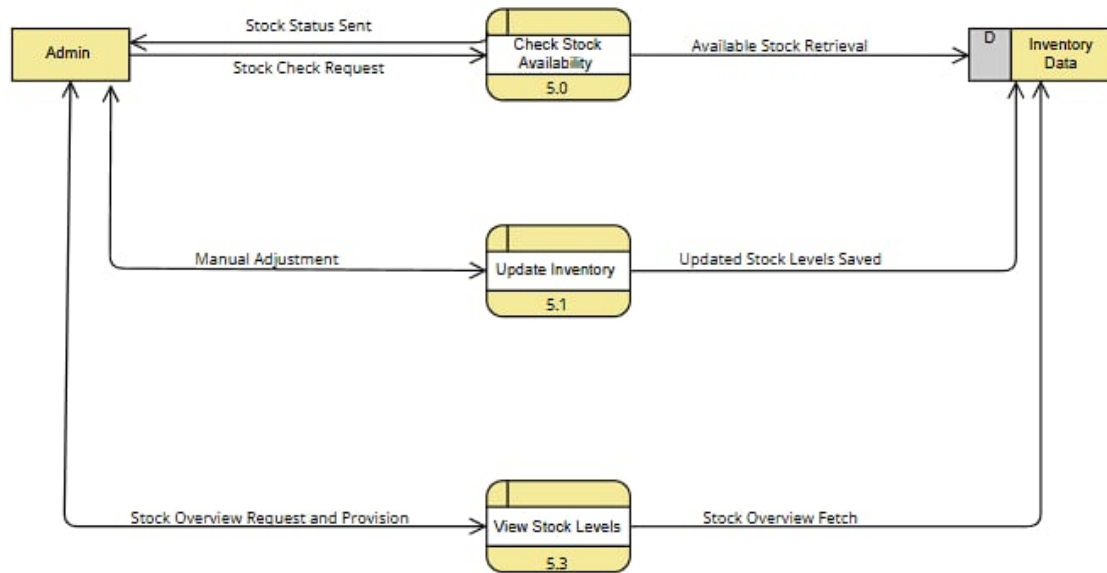
Data Flow Diagram Level 2 Process 4

LEVEL 2 PROCESS 4 (Manage Order)

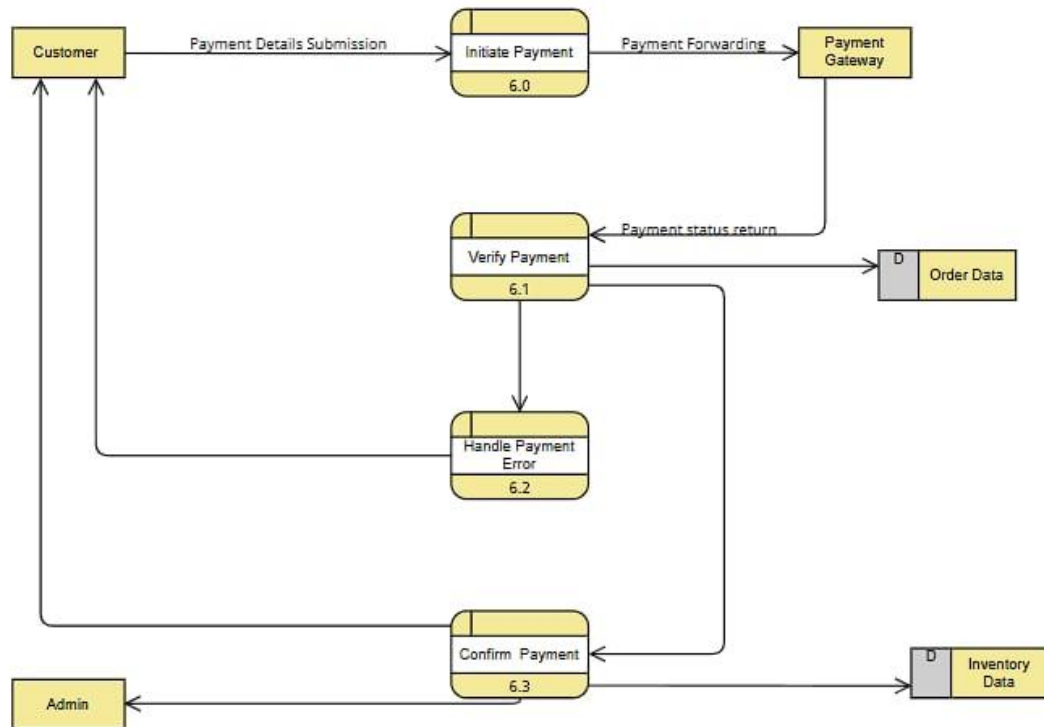


Data Flow Diagram Level 2 Process 5

LEVEL 2 PROCESS 5 (MANAGE INVENTORY)

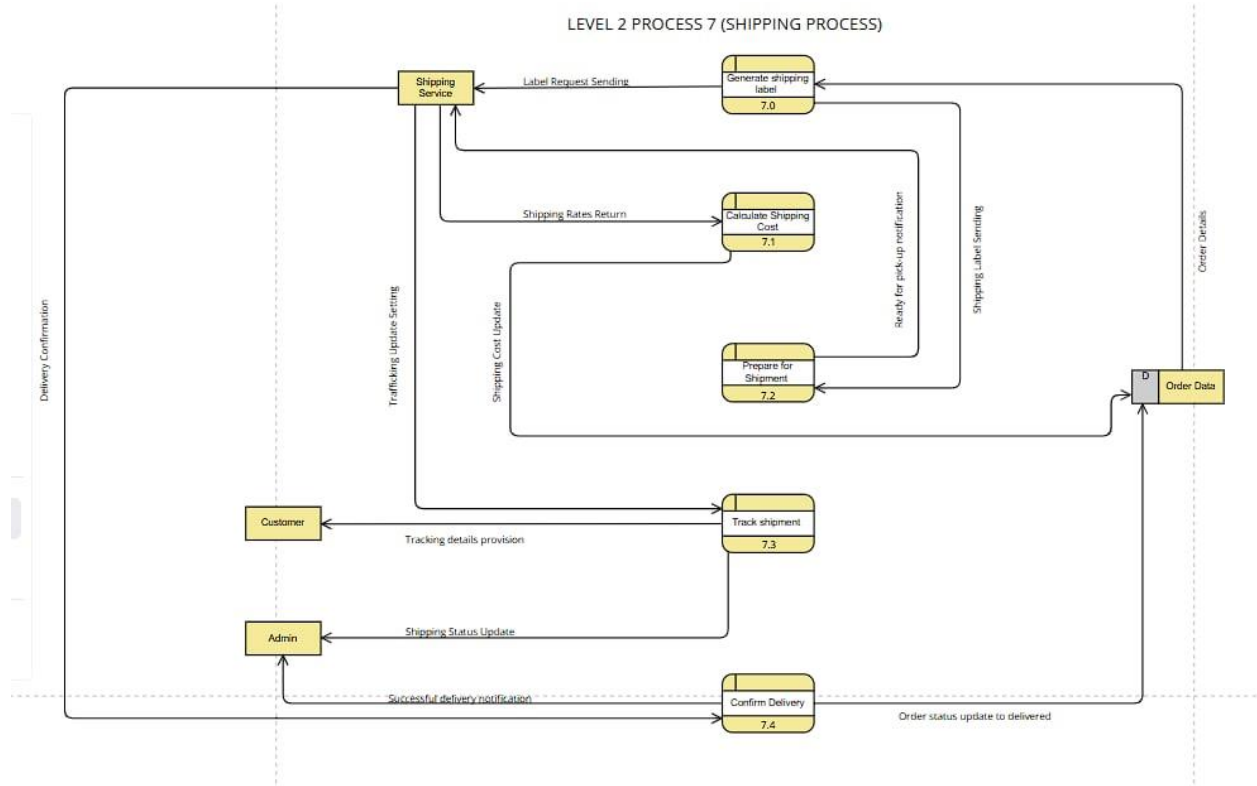


LEVEL 2 PROCESS (PAYMENT PROCESSING)

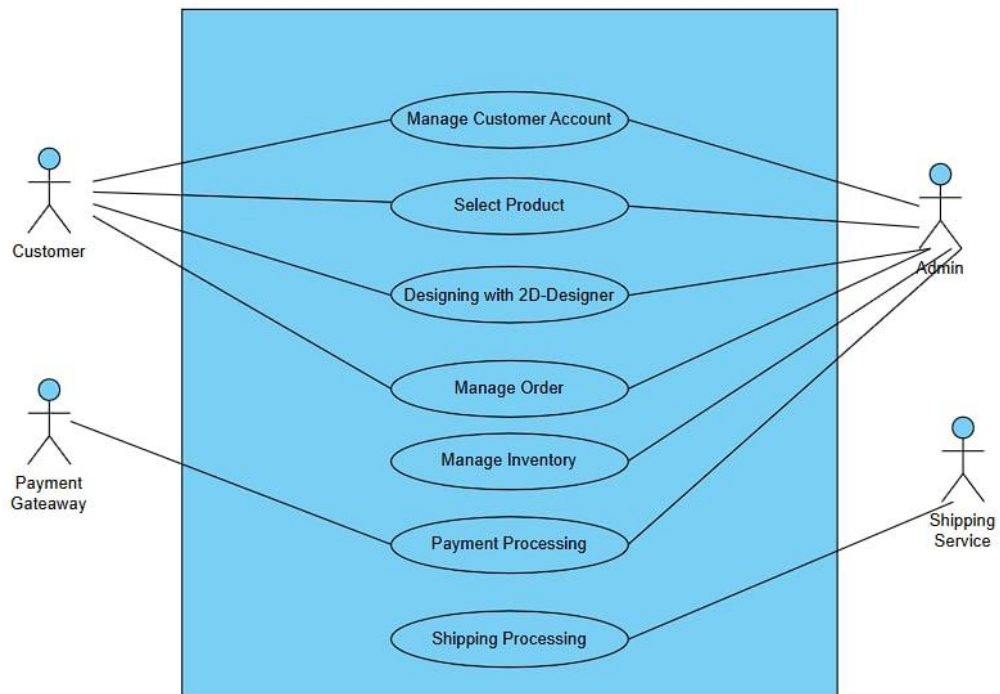


Data Flow Diagram Level 2 Process 7

LEVEL 2 PROCESS 7 (SHIPPING PROCESS)



User Case Diagram



Fully Dressed User Case

Use Case Name	Manage Customer Account
Use Case Number	UC-01
Description	Admin or Actor manages the customer accounts which includes updating, creating an account, removing an account and viewing information of a particular account
Actors	Admin, Customer
Triggers	Admin or customer wanted to modify, delete an account thus enters profile and
Pre-Condition	The actor must have internet connection and is using the web application
Post-Condition	Customer's account is modified

Flow of Activities (Admin)	Actor	System
	<p>1.1) Admin enters into the customer information tab and searches manually or via the search bar for customers</p> <p>2.1) Admin selects to delete customer</p>	<p>1.2) System retrieves Customer information from the database</p> <p>2.2) Displays customer account details on screen along with the option to delete said account.</p> <p>2.1) Displays a pop up of a disclaimer regarding the deletion.</p> <p>2.2) Removes customer's account from the database.</p>
Flow of Activities (Customer)	Actor	System
	<p>1.2) Customer inputs account information into the sign-up information page</p> <p>2.2) Customer confirms account creation</p> <p>2.1) Customer initiates the account deletion process by clicking on delete</p> <p>2.2) Customer confirms and deletes account</p> <p>3.1) Enters settings, user profile, then updates their own account by pressing the save button.</p>	<p>1.3) Displays customer sign-in or log in option</p> <p>2.3) Inputs customer details in database</p> <p>3.3) Account creation confirmation</p> <p>2.1) Confirmation notification pops up warning the customer</p> <p>2.2.) Delete customer information from the database and list that customer has terminated their account</p> <p>3.1) Update customer information based on input data</p> <p>3.2) Update confirmation</p>
Exception Conditions		

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Use Case Name	Design with 2D-Designer	
Use Case Number	UC-03	
Description	Customer uses a 2D system to design their product to visualize their demands much better.	
	Admin approves customer designs	
Actors	Customer, Admin	
Triggers	Customer selects product then proceeds to create a design of that specified product	
Pre-Condition	Customer browsed, selected and then wishes proceeds to design a product	
Post-Condition	Customer has created a design for their desired product	
Flow of Activities (Admin)	Actor	System
	1.1) Add and/or edits design templates	1.2) Update design templates
		2.2) Confirms template updates and post the updated template
	2.1) Once a customer has created an order, retrieve and approve or reject customer design	2.1) Update customer on design request status
	3.1) Remove outdated template	3.1) Deletes template from public view
Flow of Activities (Customers)	1.2) Creates and submit design for approval	1.3) Store submitted designs for admin approval
	2.2) Views design's ongoing approval status	2.3) Update design status
		3.3) Notify customer design status
Exception Conditions	1.) System cannot process the request due to outage/difficulties	
	2.) Customer can only see their order status	

	3.) Customer cancels their designing and their order all together
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Use Case Name	Manage Orders	
Use Case Number	UC-04	
Description	Admin and customers are able to manage orders	
Actors	Admin, customer	
Triggers	Customer places an order and wants to modify it	
Pre-Condition	Customer must have orders in place	
Post-Condition	Orders can be denied, accepted or modified	
Flow of Activities (Admin)	Actor	System
	1.1) Confirm or reject order	1.1) Mark order as confirmed or unconfirmed as well as display comments made by admin to customer
	2.1) Update order details (pricing, details, availability)	2.1) Update order details on the database
Flow of Activities (Customer)	1.1) Create order	1.2) Checks product availability
		2.2) Order is saved and waits for confirmation
	2.1) Request order cancellations	2.1) Cancels order
		2.2) Update inventory
	3.1) View order status	3,1) Retrieve order details
Exception Conditions	1.) There may be an occurrence where the system errors and does not register the modification to the order. 2.) Customer cancels order	

Use Case Name	Manage inventory
Use Case Number	UC-05
Description	Supplier and Admin can update the inventory

Actors	Admin	
Triggers	Admin needs to check or modify the inventory	
Pre-Condition	Web application is active (For reorder product) low stock	
Post-Condition	Inventory has been updated or viewed	
Flow of Activities (Admin)	Actor	System
	1.2) Admin checks stock availability	1.2) Send stock status
	2.2) View stock levels	2.2) Fetch stock overview
Exception Conditions	1.) Admin has bad network connection and update to the stocks is not registered fully	

Use Case Name	Payment processing	
Use Case Number	UC-06	
Description	Payment made by the customer is verified by the payment service provider	
Actors	Payment Gateway, Customer, Admin	
Triggers	Customer pays for the product and needs to be confirmed by the payment service	
Pre-Condition	Customer submitted a payment request	
Post-Condition	Payment services confirms that customer has paid fully	
Flow of Activities (Admin)	Actor	System
	1.1) Admin is notified of payment successful	1.1) Sends payment notification
Flow of Activities (Customer)	1.1) Initiates payment	1.1) Forwards payment
	2.1) Payment error notification in the case of failure	2.1) Customer is notified that payment is not made properly
Flow of Activities (Payment Gateway)	1.2) Verify Payment through customer's account	1.2) Update payment status
	2.2) Sends payment invoice as confirmation to the customer	2.2) Payment confirmation forwarded to admin

	2.1.) Handles payment error	2.1) Customer is notified and is given a invoice by the payment gateway that payment was unsuccessful
Exception Conditions	1.) Payment service Is down and cannot verify at the moment 2.) An error or outage may occur wherein the payment system's verification has not gone through 3.) The customer's account has no credit preventing an order	

Use Case Name	Shipping processing	
Use Case Number	UC-07	
Description	Delivery time is displayed and shown by Shipping Service Provider to their customers	
Actors	Shipping Services, Customer, Admin	
Triggers	Product has been handed over to shipping services and now is out for delivery	
Pre-Condition	Product has been handed over to shipping service provider and delivery time is estimated	
Post-Condition	Delivery time is displayed	
Flow of Activities (Admin)	Actor	System
	2.1) Sends an update on shipping status of the parcel to the customer	1.1) Sends tracking updates to the system to display the status
	3.1) Once the courier delivers the parcel successful the admin Is notified successful deliver	3.1) Notifies of successful delivery once the courier declares the parcel delivered
Flow of Activities (Customer)	2.1) View tracking details	2.1) displays tracking details based on delivery services projected time
Flow of Activities (Shipping services)	1.2) Shipping services generate shipping label based on order	1.2) Sends order details to shipping services

	<p>details sent by the system.</p> <p>2.2) Picks up product once notified.</p> <p>2.1) Updates shipping tracking details to the system</p> <p>3.1) Courier confirms that the parcel was delivered.</p>	<p>2.2) Notify Shipping services ready for pick up</p> <p>2.1) Updates tracking details and displays it to both client and admin</p> <p>3.1) Marks product as delivered to the client.</p>
Exception Conditions	<p>1.) System may have errors or outage that may display an outdated or may not display delivery time accurately</p> <p>2.) An act of nature, God or any disasters prevent or damage the parcel from reaching the customer.</p>	

Test Cases:

1	Test Case ID	Manage Customer Account	Test Case Description	This test case ensures that the admin or customer can manage customer accounts by updating, creating, removing, and viewing account information as				
2	Created By	Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1		
3								
4	QA Tester's Log							
5								
6	Tester's Name		Date Tested		Test Case (Pass/Fail/Not Executed)			
7								
8	S #	Prerequisites:			S #	Test Data Requirement		
9	1	The actor (admin or customer) must have an internet connection.			1	Valid customer account information for updates.		
10	2	The system must be operational.			2	Customer account ID for deletion.		
11	3	The actor must be logged in with the appropriate permissions.			3	Permission roles for admin or customer actions.		
12	4				4	Network connection for online system accessibility.		
13								
14	Test Conditions							
15								
16	Step #	Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended
17	1	Admin or customer requests customer information.		The system should display the "Customer Management" interface.				
18	2	Admin requests account removal.		The system should show customer details ready for edit..				
19	3	Admin confirms account removal.		The system should accept the changes and proceed to the next step..				
20	4	Customer inputs updated account information.		The system should save the updated details and display a success message.				
21	5	Customer submits the updated account information.		The system should apply the changes and display a success message.				
22	6	Admin checks the activity log for modifications.		The system should close the page and return to the dashboard.				
23								

1	Test Case ID	Customer Selects Product	Test Case Description	This test case validates the process where the customer browses, searches, and selects a product from the catalog, ensuring the system displays relevant product details correctly.			
2	Created By	Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1	
3							
4	QA Tester's Log						
5							
6	Tester's Name		Date Tested		Test Case (Pass/Fail/Not		
7							
8	S #	Prerequisites:		S #	Test Data Requirement		
9	1	The customer must be logged into the web application.		1	Customer account with browsing permissions.		
10	2	The system must be operational and capable of displaying products.		2	Product details and IDs in the inventory.		
11	3	Products must be available in the inventory for browsing.		3	System access to product database for querying.		
12	4			4			
13							
14	Test Conditions						
15							
16	Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended		
17	1	Customer logs into the web application.	The system should authenticate the customer and display the home page.				
18	2	Customer navigates to the product selection section.	The system should display the product browsing section.				
19	3	Customer searches or filters products by specific criteria.	The system should display products that match the criteria.				
20	4	Customer clicks on a product to view its details.	The system should display detailed information about the selected product.				
21	5	Customer decides to add the product to the cart.	The system should update the cart and display a confirmation message.				
22	6	Customer views the cart to confirm the product is added.	The system should show the product listed in the cart.				
23							
Test Case ID		Manage Orders	Test Case Description	This test case ensures that both customers and admins can manage orders, which includes creating, modifying, canceling, and viewing the status of orders.			
Created By		Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1	
QA Tester's Log							
Tester's Name			Date Tested		Test Case (Pass/Fail/Not		
S #		Prerequisites:		S #	Test Data Requirement		
1		The customer must have logged in and placed an order.		1	Customer account with valid orders.		
2		The admin must be logged in with permissions to manage orders.		2	Product and order details stored in the system.		
3		The system must be operational and connected to the inventory database.		3	Admin account with order management permissions.		
4				4			
Test Conditions							
Step #		Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended		
1		Customer places an order.	The system should save the order and display a confirmation message.				
2		Admin confirms the order.	The system should mark the order as confirmed and update its status.				
3		Customer views the order status.	The system should display the current status of the order.				
4		Customer requests to cancel an order.	The system should allow order cancellation and update the inventory.				
5		Admin modifies an order.	The system should reflect the changes and notify the customer if necessary.				
6		Customer checks the updated status post-modification.	The system should display the revised order status.				

Test Case ID	Manage Orders	Test Case Description	This test case ensures that both customers and admins can manage orders, which includes creating, modifying, canceling, and viewing the status of orders.			
Created By	Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1	
QA Tester's Log						
Tester's Name		Date Tested		Test Case (Pass/Fail/Not		
S #	Prerequisites:		S #	Test Data Requirement		
1	The customer must have logged in and placed an order.		1	Customer account with valid orders.		
2	The admin must be logged in with permissions to manage orders.		2	Product and order details stored in the system.		
3	The system must be operational and connected to the inventory database.		3	Admin account with order management permissions.		
4			4			
Test Conditions						
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended		
1	Customer places an order.	The system should save the order and display a confirmation message.				
2	Admin confirms the order.	The system should mark the order as confirmed and update its status.				
3	Customer views the order status.	The system should display the current status of the order.				
4	Customer requests to cancel an order.	The system should allow order cancellation and update the inventory.				
5	Admin modifies an order.	The system should reflect the changes and notify the customer if necessary.				
6	Customer checks the updated status post-modification.	The system should display the revised order status.				
Test Case ID	Manage Inventory	Test Case Description	This test case ensures that suppliers and admins can effectively manage the inventory, including checking stock levels, updating the inventory, and reordering products when necessary.			
Created By	Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1	
QA Tester's Log						
Tester's Name		Date Tested		Test Case (Pass/Fail/Not		
S #	Prerequisites:		S #	Test Data Requirement		
1	The web application must be active and accessible.		1	Admin or supplier account with inventory permissions.		
2	The admin or supplier must be logged in with appropriate permissions.		2	Valid stock data in the system.		
3	The inventory database must be up-to-date and accessible.		3	Reorder threshold values for products.		
4			4			
Test Conditions						
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended		
1	Admin or supplier logs into the web application.	The system should authenticate the user and grant access to the inventory module.				
2	Admin checks stock availability.	The system should display current stock levels for all products.				
3	Admin identifies low stock and initiates a reorder.	The system should send a reorder request and confirm submission.				
4	Supplier receives reorder request and confirms delivery.	The system should update stock levels upon confirmation.				
5	Admin views updated inventory post-reorder.	The system should reflect the updated stock quantities.				

Test Case ID	Payment Processing	Test Case Description	This test case ensures that payment made by a customer is processed and verified correctly by the payment service provider, and notifications are sent to relevant parties.			
Created By	Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1	

QA Tester's Log

Tester's Name		Date Tested		Test Case (Pass/Fail/Not)	
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S #	Prerequisites:	S #	Test Data Requirement
1	The customer must be logged in and have a product in their cart ready for checkout.	1	Valid customer account with payment information.
2	The payment service provider must be operational.	2	A product selected for purchase with a valid price.
3	The system must be connected to the payment gateway for verification.	3	Payment gateway access credentials for verification.
4		4	

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Customer initiates the payment process.	The system should forward payment details to the payment gateway.		
2	Payment gateway verifies the payment details.	The system should receive a confirmation or error response from the gateway.		
3	System sends payment confirmation to the customer.	The customer should receive a notification of successful payment.		
4	Admin is notified of the payment status.	The system should send a notification to the admin regarding payment status.		
5	Customer views payment confirmation status.	The system should display the payment status as successful or failed..		

Test Case ID	Shipping Processing	Test Case Description	This test case ensures that the shipping process, including tracking updates and delivery confirmation provided by the shipping service provider, is correctly managed and displayed to both the customer and admin.			
Created By	Jouie Embudo Jr	Reviewed By	Mr. Jose Quesada	Version	1.1	

QA Tester's Log

Tester's Name		Date Tested		Test Case (Pass/Fail/Not)	
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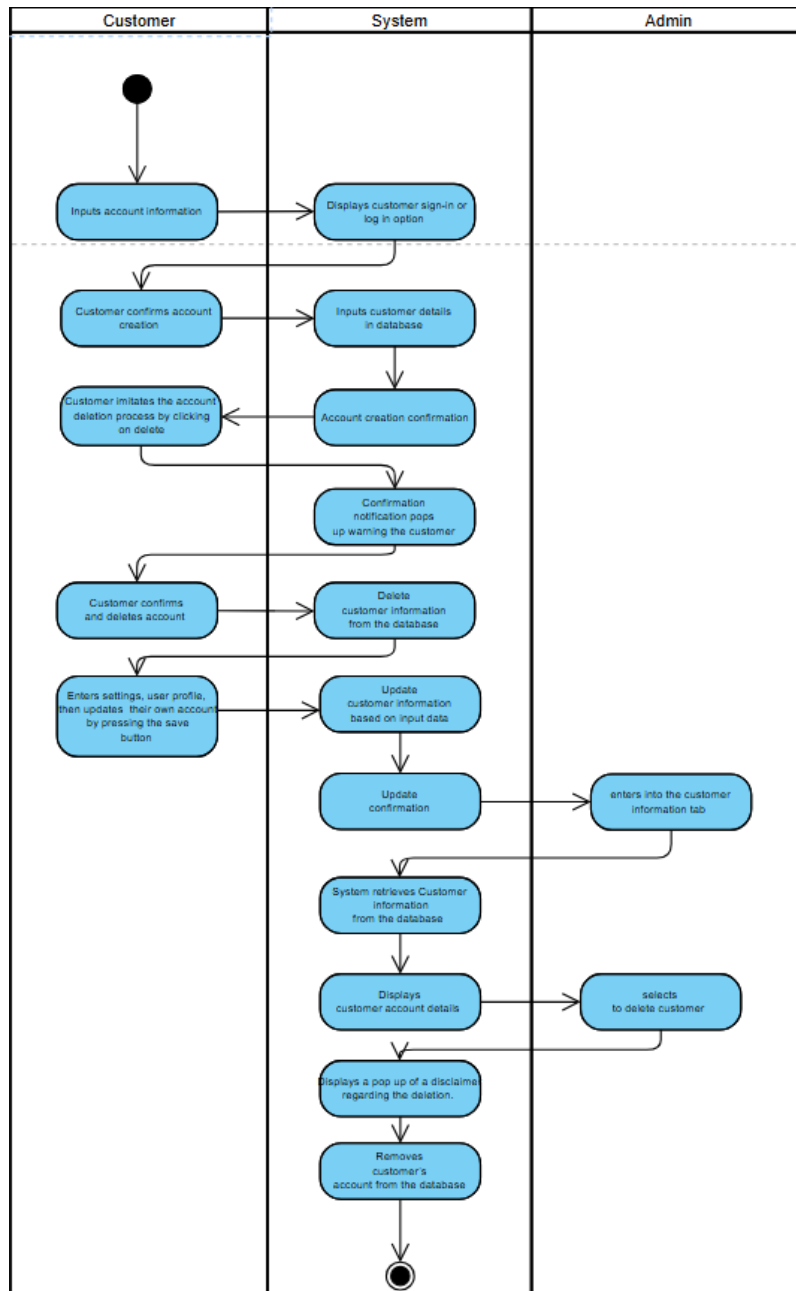
S #	Prerequisites:	S #	Test Data Requirement
1	The product must have been handed over to the shipping service provider.	1	Valid order with shipping information.
2	The system must be connected to the shipping service provider for tracking updates.	2	Shipping service provider's tracking number.
3	The customer and admin must have access to view shipping details.	3	Customer and admin accounts for notification access.
4		4	

Test Conditions

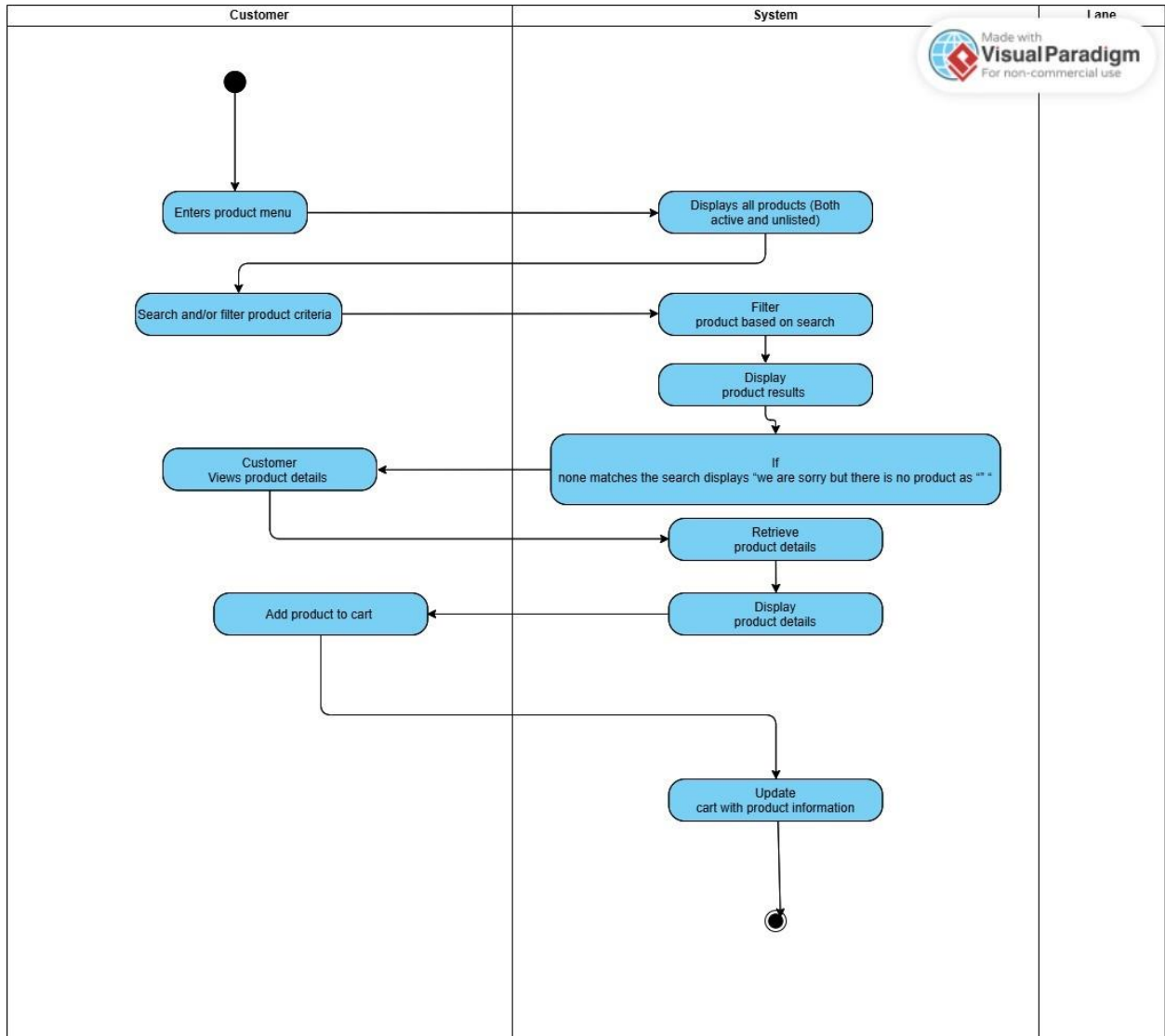
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Shipping service generates and sends a tracking label.	The system should update the order with the tracking number.		
2	System sends tracking updates to the customer and admin.	Both should receive timely updates on the shipment status.		
3	Customer views tracking details on their account.	The system should display the current tracking status and delivery estimate.		
4	Shipping service confirms successful delivery.	The system should update the status to "Delivered" and notify both parties.		
5	Admin checks the delivery status.	The system should show the delivery status as completed.		

Activity Diagram (Swim Lane)

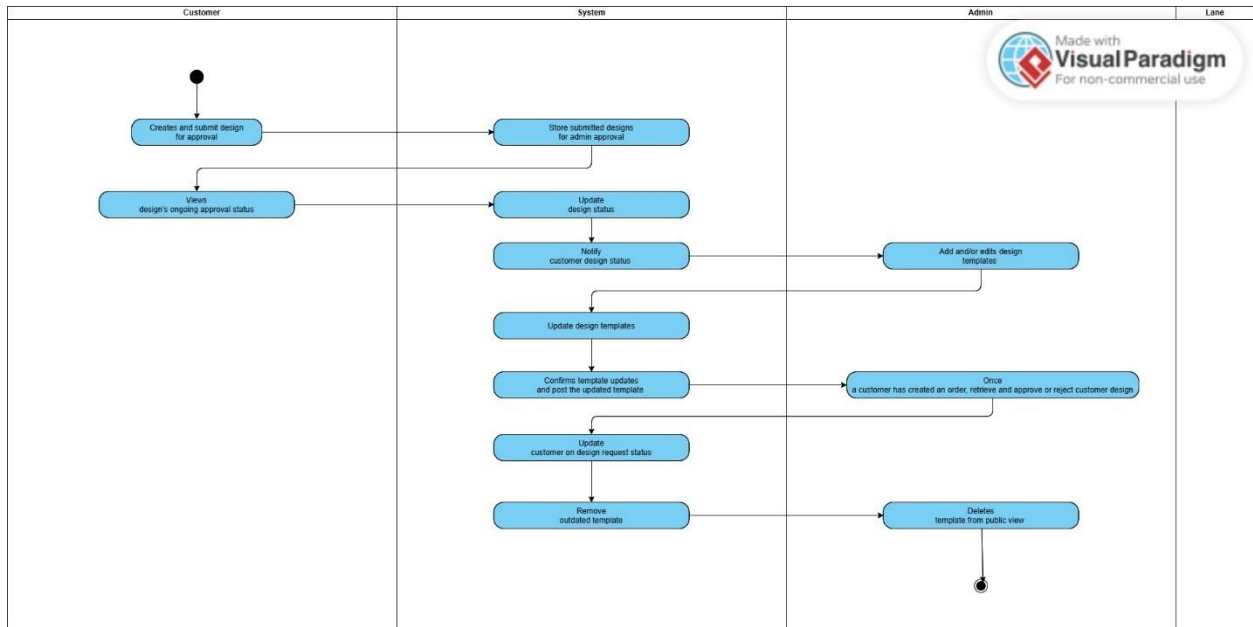
Manage Customer Account



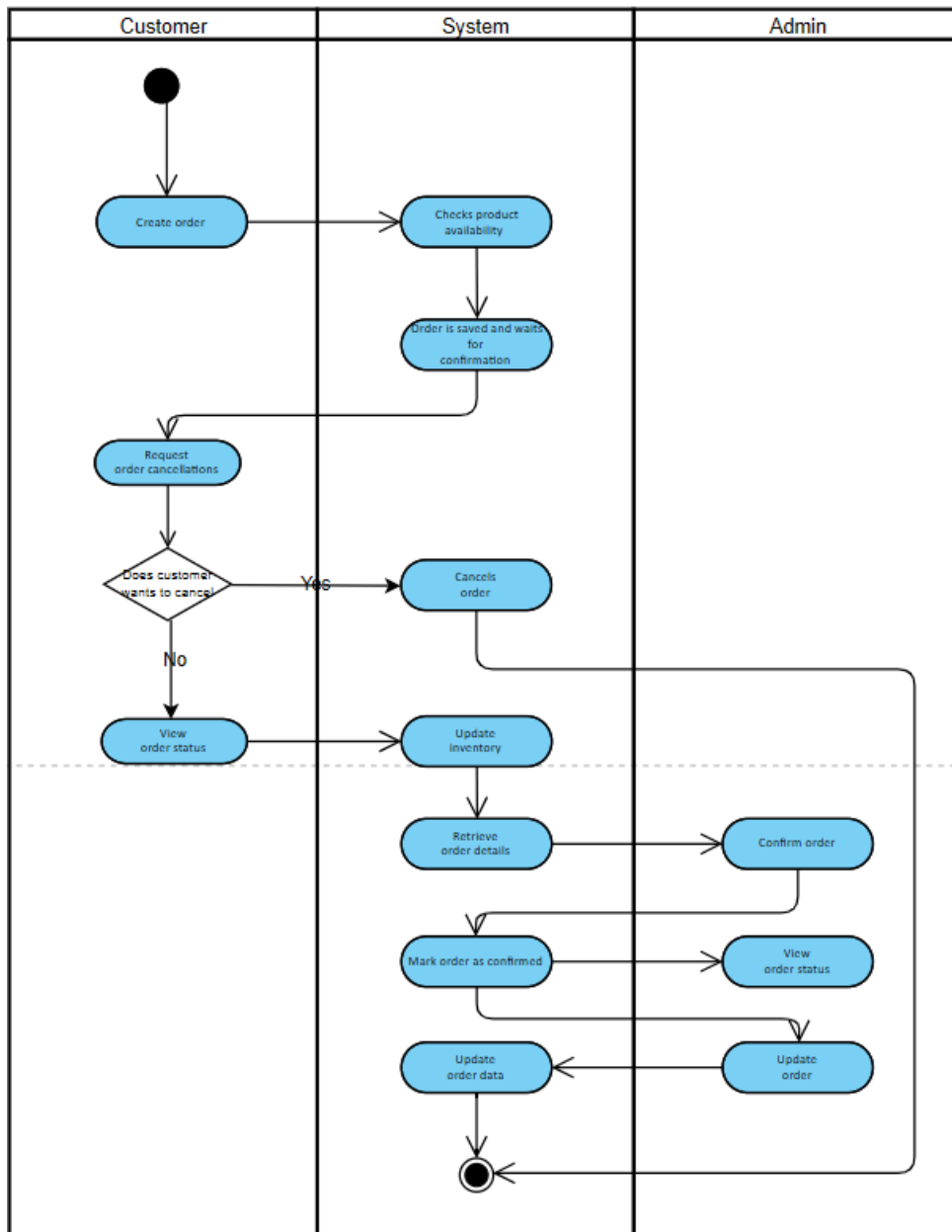
Product Selection



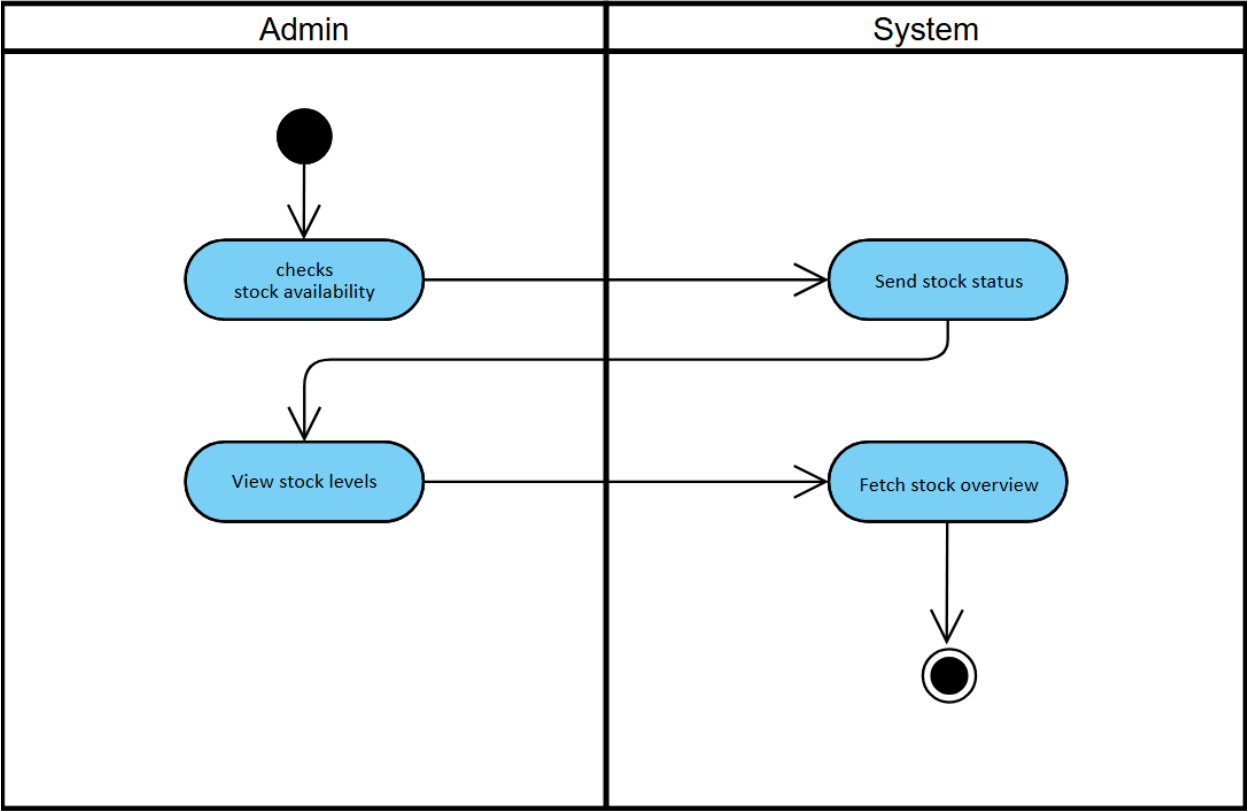
Design with 2D-Designer



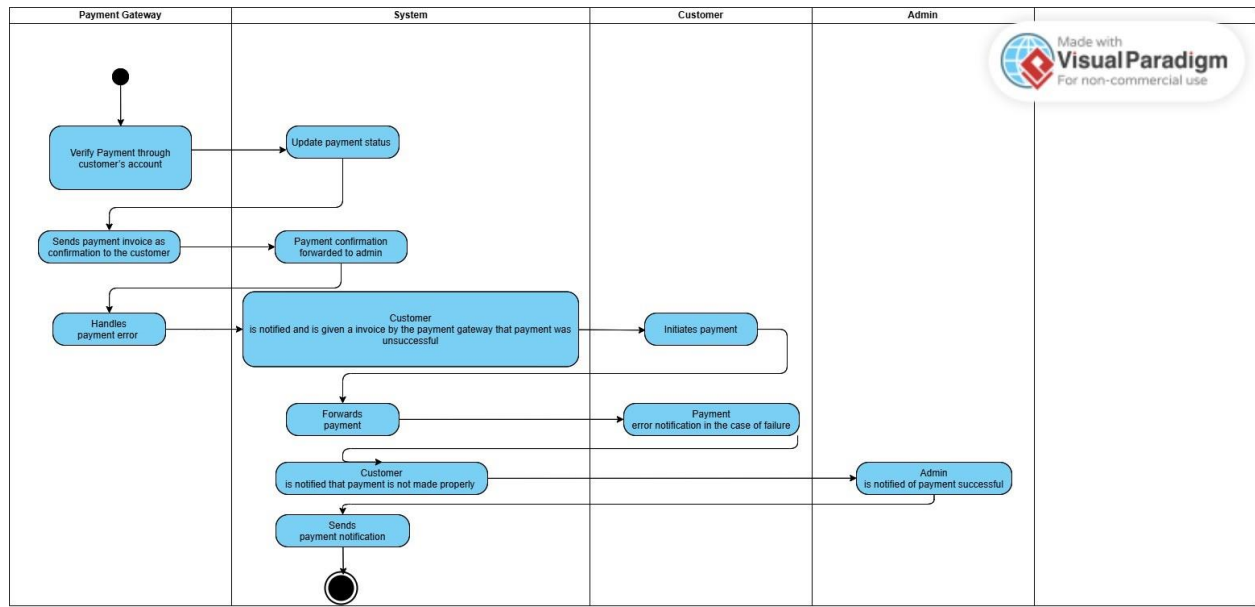
Manage orders



Manage Inventory



Payment Processing



Shipping Process

