



LiamKai
System Integration and Architecture 1

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1. Introduction: Preliminary Investigation

1.1. The Organization

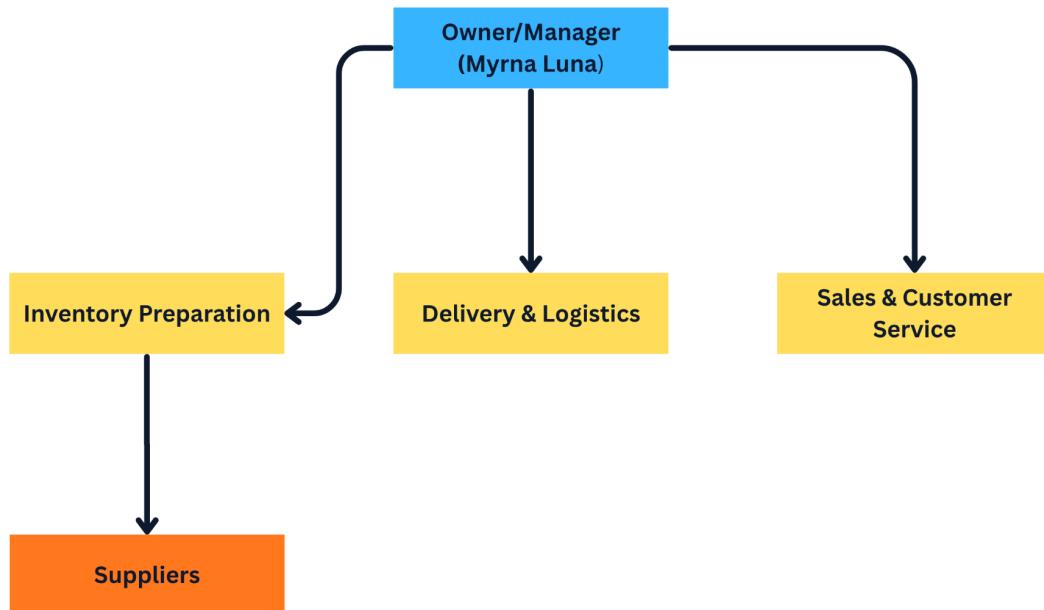
Name: LiamKai

Industry Type: Wholesale and Retail Trade

Organization Address: Phase 1 blk 7 Lot 47, Rosewood Plains Subdivision, Villa Kananga, Butuan City

Organization's Contact/Representative Details: Myrna L. Luna | 09338205333

1.2. Organizational Chart/Structure



1.3. Organization's Brief History

The business began when its owner, Myrna, tried a few seafood products from a friend—specifically frozen panga and tuna steak. She first used these products during her husband's birthday celebration, when she prepared a traditional Filipino dish called kinilaw. The dish became a hit among guests, many of whom inquired where the fish was sourced and if they could place orders as well.

Encouraged by the strong interest, Myrna decided to purchase more stock. She traveled to Davao to personally connect with suppliers and explore additional sourcing

opportunities in the area. With her new inventory, she expanded her reach by visiting local restaurants, offering her products, and asking if they already had existing suppliers.

Over time, the business gained traction through word of mouth and unintentional advertising at events where she would serve her seafood dishes. The consistent quality and taste of the products sparked curiosity and demand, helping the business grow steadily into what it is today.

1.4. Business Process

Customer Ordering

When a customer calls to inquire about a specific product, the owners first verify its availability. If the item is in stock, the order is recorded on an order slip, prepared, and delivered personally to the customer on the same day. If the product is unavailable, the customer is informed and provided with an estimated date of availability. Orders received in the morning are prepared alongside pending orders from the previous afternoon or evening and then delivered together. For non-urgent orders placed in the afternoon, delivery is typically scheduled for the following day. However, for urgent requests, the owner coordinates directly with the customer to arrange a delivery time, which is usually on or before 5 PM.

Walk-in

Customers often prefer to visit the store in person. Typically, they either call ahead or notify the owner upon arrival. Upon entering, they are welcomed at the gate and presented with the available products. If the customer already has a specific item in mind, the owner retrieves it, weighs it, and calculates the total price. Before finalizing the transaction, the owner confirms with the customer to ensure satisfaction. The details of the purchase are then recorded on an order slip. Once the payment is made, the products are packaged in a cellophane bag. For customers who bring their own icebox, the items are placed directly inside to maintain freshness.

Supply Replenishment

When a product is sold out, the owners contact their suppliers to check if a new shipment is available. When suppliers reach out, they travel by car to Davao to collect the ordered products, pay, and then return to restock.

1.4 Identified Problems

At the end of each day, the owners are often left exhausted from managing deliveries, receiving orders, and coordinating with suppliers. They operate without a clear inventory system and rely solely on visual inspection to track stock levels, making it difficult to monitor what's running low.

Adding to this challenge is the unpredictability of their suppliers, which makes it harder to ensure a consistent supply of products. Delays or sudden unavailability from the supplier's end can disrupt order fulfillment and affect customer satisfaction.

2. Events Table, Use Case List, and Use Case Diagram

2.1 Use case list

- **CUSTOMER ORDER MANAGER**
 - Create Customer Order
 - Update Order Status
 - Cancel Order
 - View Order History
 - Manage Customer Profile
 - Manages Customer Type (Wholesale/Retail))
 - Process Payment
- **LOGISTICS & DELIVERY MODULE**
 - Process Delivery
 - Update Delivery Status
 - Collect Payment on Delivery
- **PURCHASING & SUPPLIERS MANAGER**
 - Manage Supplier Profile
 - Create Purchase Order
 - Update Purchase Order Status
 - Record Product Receipt
 - Record Sales Report
 - Receiving report
- **INVENTORY MODULE**
 - Manage Product Catalog
 - Monitor Stock Levels
 - Record Stock Movement
 - Update Inventory Status
 - Generate Inventory Alert
- **USER & AUTHENTICATION MODULE**
 - Log In
 - Log Out
 - View My Profile
 - Update My Profile
- **ADMINISTRATION MODULE (Owner/Manager)**
 - Create Employee Account
 - Update Employee Account
 - Deactivate Employee Account
 - Assign Roles & Permissions
 - View Employee Login Logs
 - Manage Pricing
 - Generate Sales Reports

2.2 Events Table

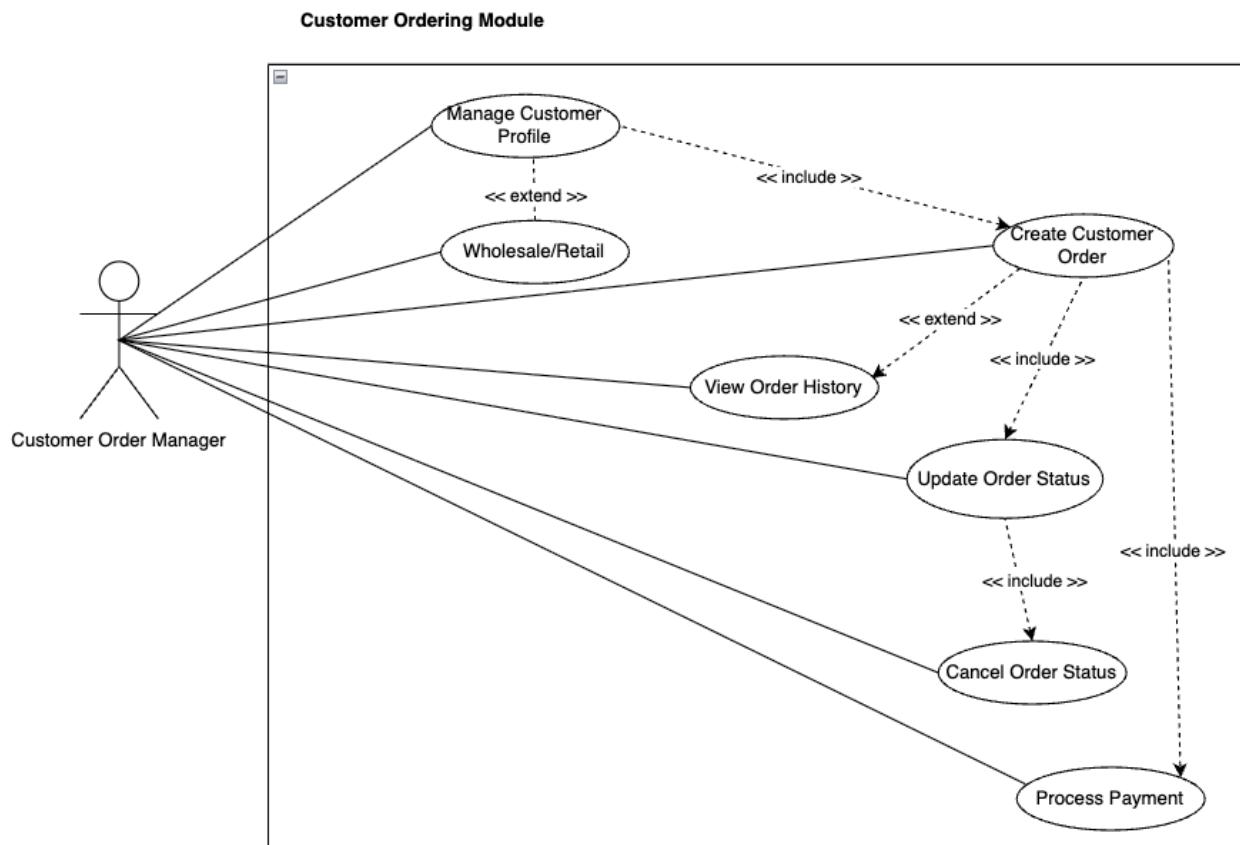
Event	Trigger	Source	Use Case	Response	Destination
CUSTOMER ORDERS					
Customer places order	New customer order	Customer/Customer Order Manager	Create Customer Order	New order record created, inventory reserved	Customer Order Manager/Inventory Manager
Order status changes	Status update needed	Owner/Custom er Order Manager	Update Order Status	Updated order status	Customer Order Manager
Customer requests cancellation	Cancel request	Customer/Own er	Cancel Order	Order cancelled, inventory restored	Customer/Inventory Manager
Check past orders	View order request	Owner/Custom er Order Manager	View Order History	Display order history	Owner/Customer Order Manager
New customer registration	New customer	Customer Order Manager/Own er	Manage Customer Profile	New customer profile created	Customer Order Manager
New customer registration	New Customer	Customer Order Manager/Own er	Manage Customer Type	Details of the Customer updated	Customer Order Manager
Update customer details	Customer info changes	Customer Order Manager/Own er	Manage Customer Profile	Updated customer information	Customer Order Manager
Customer makes payment	Payment received	Customer Order Manager	Process Payment	Payment recorded, order status updated	Bookkeeper/Customer Order Manager
LOGISTICS & DELIVERY					
Order ready for delivery	Delivery initiated	Deliverer	Process Delivery	Delivery processed	Deliverer/Customer Order Manager
Delivery completed	Delivery status change	Deliverer	Update Delivery Status	Updated delivery status	Customer/Logistics Staff
COD collection	Payment at delivery	Customer	Collect Payment on Delivery	Cash collected from the customer	Bookkeeper
PURCHASING & SUPPLIERS					
New supplier	Add supplier	Purchase	Manage	New supplier	Purchase Order

		Order Manager	Supplier Profile	profile created	Manager
Update supplier info	Supplier details change	Purchase Order Manager	Manage Supplier Profile	Updated supplier information	Purchase Order Manager
Low stock detected	Reorder needed	Inventory Manager	Create Purchase Order	New purchase order created	Purchase Order Manager
Purchase order confirmed	PO status change	Supplier	Update Purchase Order Status	Updated PO status	Purchase Order Manager
Products arrive	Supplier delivery	Supplier/Purchase Order Manager	Record Product Receipt	Products received, inventory updated	Inventory Manager/Purchase Order Manager
Low stock detected	Communication required	Supplier/Purchase Order Manager	Coordinate with Suppliers	Communication logged	Purchase Order Manager
Receiving report completed	Products inspected & confirmed	Inventory Manager/ Purchase Order Manager	Generate Receiving Report	Receiving the report generated and stored	Inventory Manager /Purchase Order Manager
Sales day/week/month ends	Report needed	Customer Order Manager/Purchasing Order Manager	Generate Sales Report	Sales report generated	Owner/ Purchase Order Manager
INVENTORY					
New product added	Add product	Inventory Manager	Manage Product Catalog	New product in the catalog	Inventory Manager
Product info updated	Product details change	Purchase Order Manager	Manage Product Catalog	Updated product information	Owner/Inventory Manager
Product Price updated	Product details change	Owner	Manage Product Catalog	Updated product information	Inventory Manager
Check stock	Stock inquiry	Inventory Manager	Monitor Stock Levels	Display current stock levels	Inventory Manager
Stock in/out	Inventory movement	Inventory Manager/	Record Stock Movement	Stock movement recorded	Inventory Manager
Inventory	Inventory	Inventory	Update	Updated	Inventory

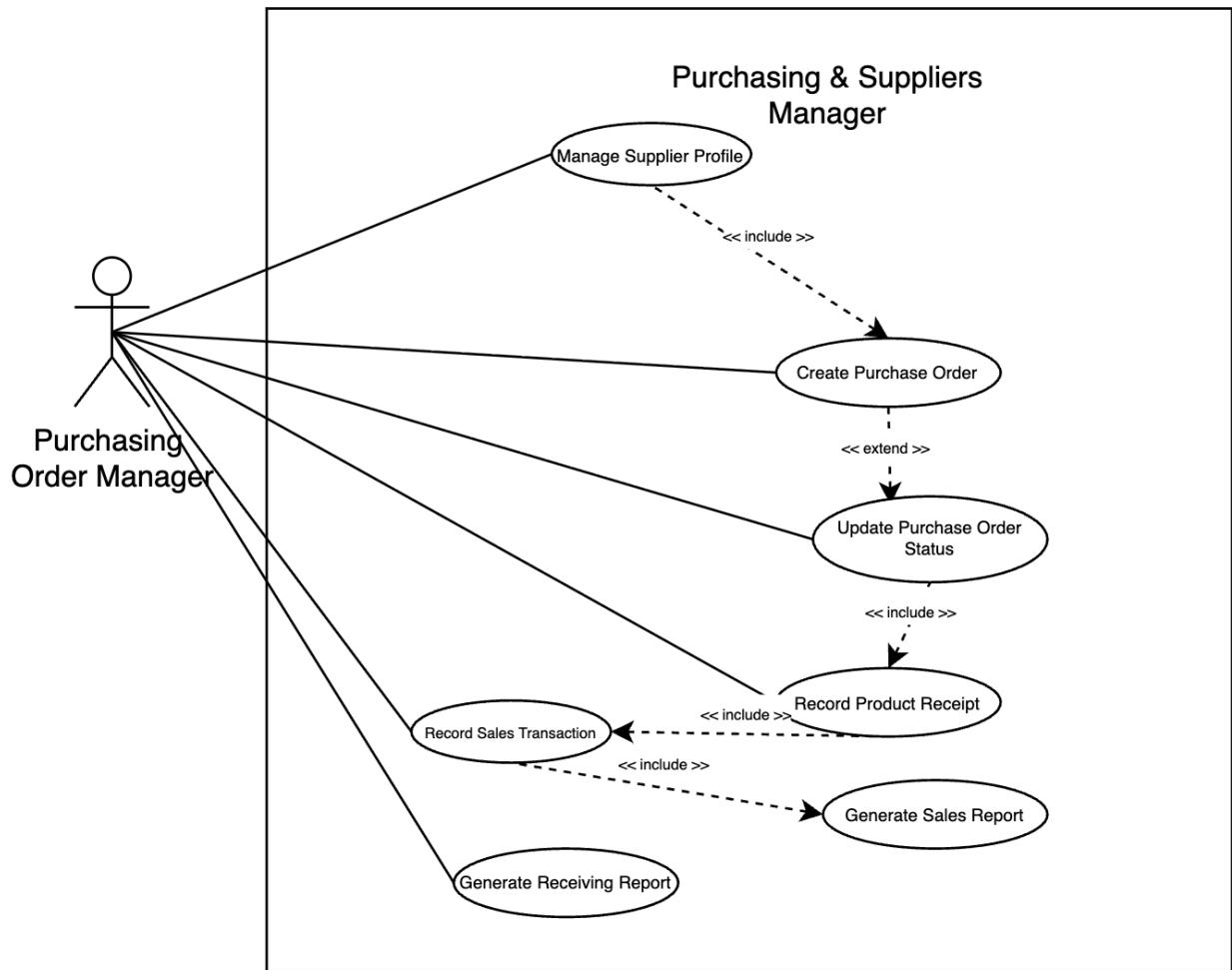
adjusted	change	Manager	Inventory Status	inventory status	Manager/Owner
Stock below the reorder point	Low stock threshold reached	Inventory Manager	Generate Inventory Alerts	Low stock alert sent	Purchase Order Manager
Receiving report created	Products received	Inventory Manager / Purchase Order Manager	Generate Receiving Report	Receiving the report generated and documented	Inventory Manager / Owner
USER & AUTHENTICATION					
User accesses the system	Login attempt	All Users	Log In	User authenticated, session started	User
User exits the system	Logout request	All Users	Log Out	User session ended	User
Check own profile	Profile inquiry	All Users	View My Profile	Display user profile	User
Update personal info	Profile update	All Users	Update My Profile	Updated user profile	User
ADMINISTRATION					
New employee hired	New employee	Owner	Create Employee Account	New employee account created	Owner
Employee info changes	Update employee	Owner	Update Employee Account	Updated employee account	Owner
Employee quits/dies/is terminated	Deactivate employee	Owner	Deactivate Employee Account	Employee account deactivated	Owner
Assign employee role	Role assignment	Owner	Assign Roles & Permissions	Roles and permissions assigned	Owner/Employee
Check user activity	View logs request	Owner	View Employee Login Logs	Display employee login logs	Owner
Price adjustment needed	Price change	Owner	Manage Pricing	Prices updated (wholesale/retail)	Owner/Inventory Manager
Sales report needed	Report request	Bookkeeper	Generate Sales Reports	Sales reports generated	Owner

2.3 Use Case Diagram

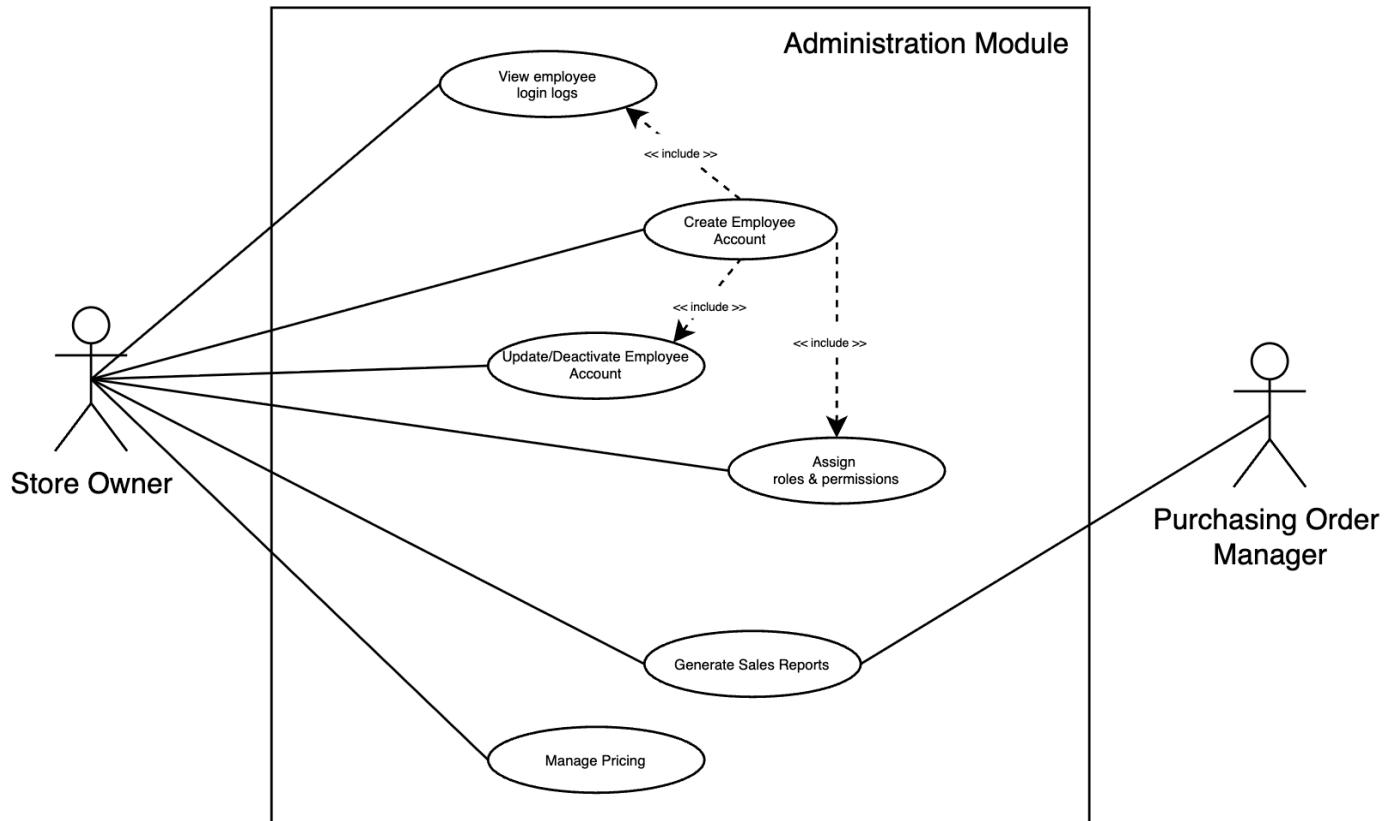
2.3.1 Customer Ordering Module



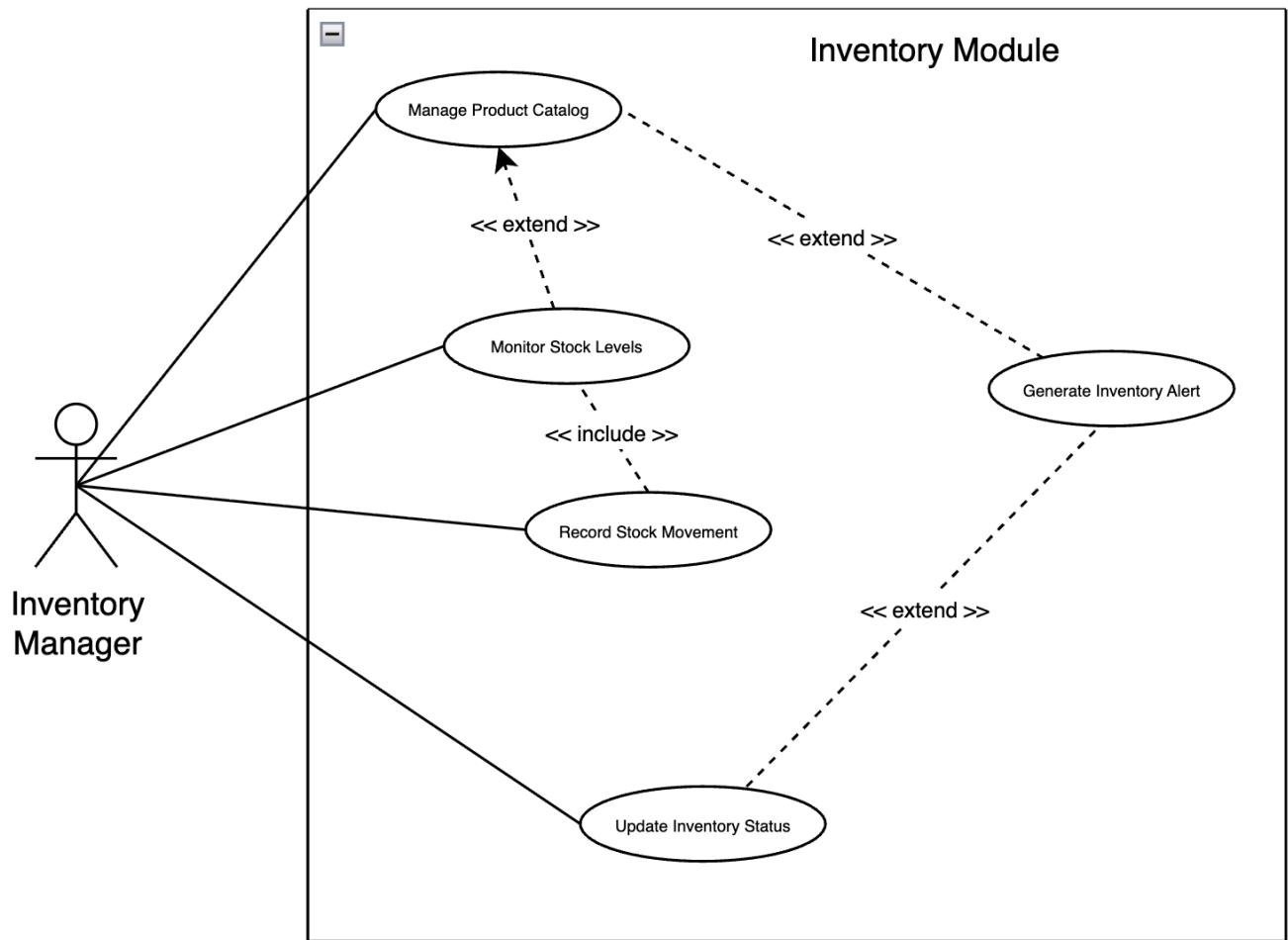
2.3.2 Purchasing & Suppliers Manager



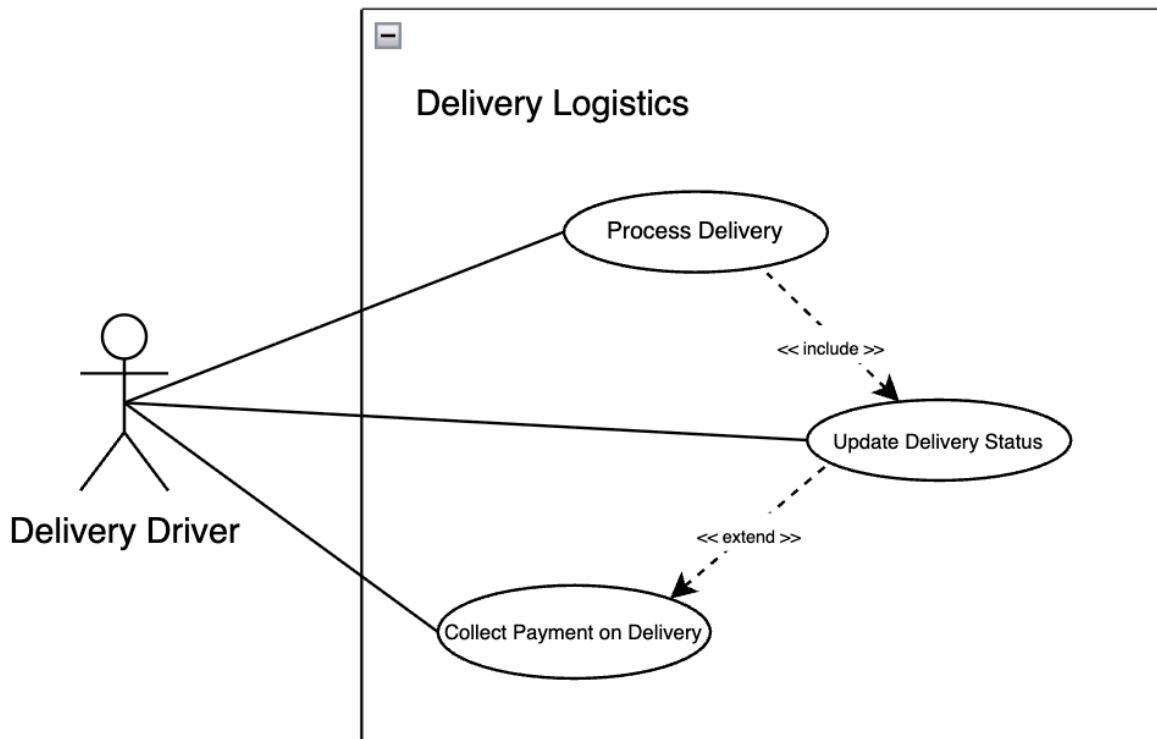
2.3.3 Administration Module



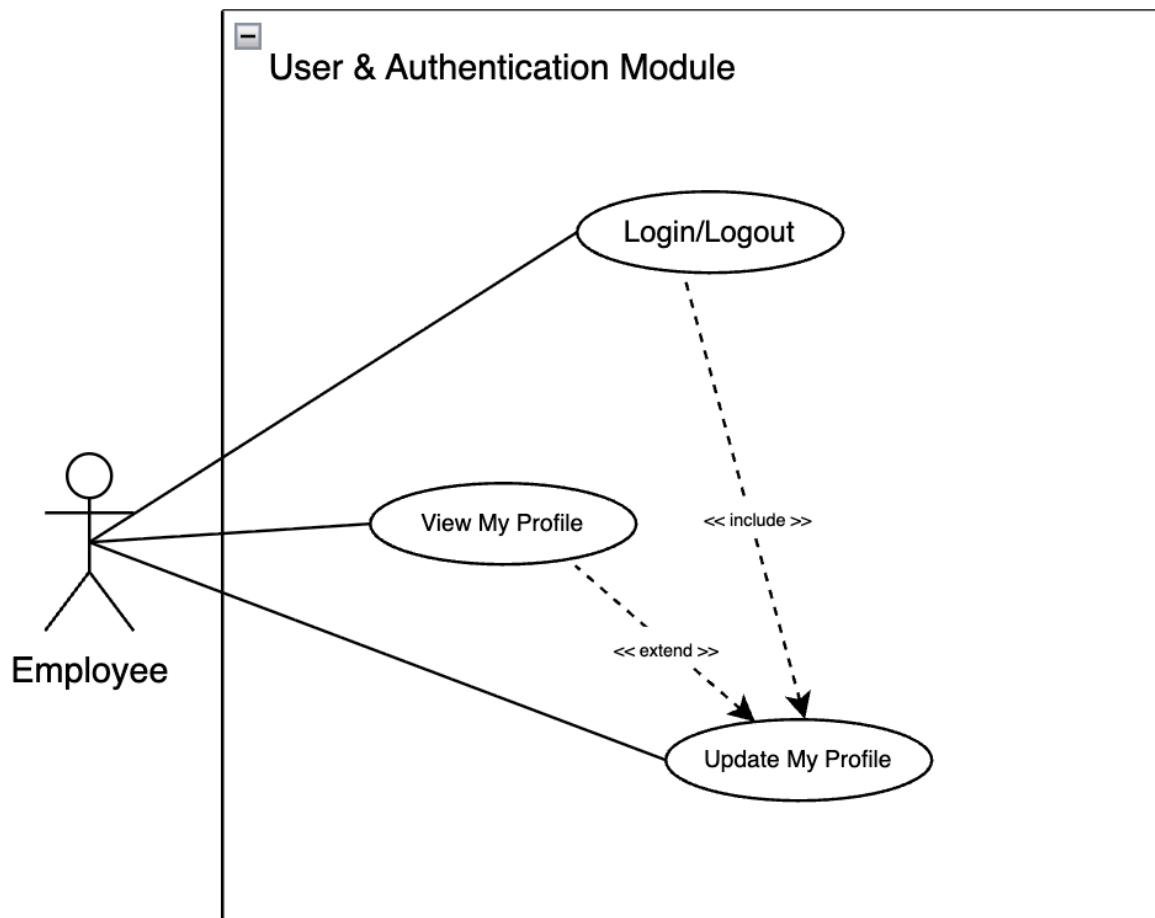
2.3.4 Inventory Module



2.3.5 Delivery Logistics



2.3.6 User & Authentication



3. Use Case Descriptions

3.1 Customer Order Module

Field	Description
Use Case Name	Manage Customer Profile
Scenario	Customer profile needs to be created, updated, or reviewed before processing transactions
Triggering Events	Customer Order Manager needs to add a new customer or modify existing customer information
Brief Description	The Customer Order Manager manages customer details such as contact information, customer type (retail/wholesale), payment terms, and account status. The system stores and updates customer data, ensuring accurate information for orders, payments, and communication.
Actors	Customer Order Manager
Related Use Case	Create Customer Order, Process Payment
Preconditions	<ul style="list-style-type: none"> • User must be logged in • Customer record exists, or new customer information is provided • Customer type and payment terms must be defined or selectable
Postconditions	<ul style="list-style-type: none"> • The customer profile is created or updated • Customer information is stored in the customer database • Updated profile is available for order creation and payment processing
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. The actor selects “Manage Customer Profile.” 2. The actor searches for an existing customer or chooses “Add New Customer.” 3. The actor enters or updates customer information (name, address, contact info). 4. The actor selects customer type (retail or wholesale). 5. The actor enters payment terms (full payment, 30 days, 60 days depending on agreement). 6. The actor reviews details with the customer. 7. The actor saves the customer profile. <p>System:</p>

	<ol style="list-style-type: none"> 1. System validates required fields (name, contact, address). 2. System checks if customer already exists. <ul style="list-style-type: none"> • If exists, system loads customer data. • If new, system creates a new customer record. 3. System verifies customer type (retail/wholesale). 4. System stores customer payment terms. 5. System updates the customer database. 6. System confirms successful creation or update of profile. 7. System displays updated customer profile.
Exception Conditions	<ul style="list-style-type: none"> • If required fields are incomplete, system alerts the actor and prevents saving. • If customer already exists when adding a new one, system prompts for confirmation or edit instead. • If invalid or conflicting payment terms are entered, system notifies the actor to correct the information.

Field	Description
Use Case Name	Create Customer Order
Scenario	Customer requests to order products
Triggering Events	Customer contacts to place an order (phone call, visit, or message)
Brief Description	The customer order manager creates a new order with product, quantity, and delivery details. System automatically determines customer type (wholesale/retail) based on quantity and applies appropriate pricing.
Actors	Customer Order Manager
Related Use Case	Update Order Status
Preconditions	<ul style="list-style-type: none"> • User must be logged in • Products must exist in catalog • Customer information must be available (new or existing)
Postconditions	<ul style="list-style-type: none"> • Order is created in the system • Inventory is reserved for the order • Order appears in order list • Customer type (wholesale/retail) is determined • Appropriate pricing is applied

Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 8. The actor receives order from customer 9. The actor enters customer information 10. The actor selects products and enters quantities 11. The actor confirms the order details with customer. 12. The actor submits order
	<p>System:</p> <ol style="list-style-type: none"> 8. System checks if quantity $\geq 10\text{kg}$ <ul style="list-style-type: none"> o If $\geq 10\text{kg}$, system classifies as wholesale customer o If $< 10\text{kg}$, system classifies as retail customer 9. System applies appropriate pricing (wholesale or retail) 10. System checks product availability in inventory 11. System prompts if products are low stock or out of stock 12. System calculates total amount 13. System displays order summary 14. System creates order record 15. System reserves inventory 16. System generates order number 17. System displays order confirmation
Exception Conditions	<ul style="list-style-type: none"> • If product is out of stock, system alerts user and prevents order creation. • If product is low in stock, system warns user but allows order to proceed

Field	Description
Use Case Name	Process Payment
Scenario	Customer makes payment for order (retail or wholesale)
Triggering Events	Customer provides payment (online), or the deliverer collects cash on delivery
Brief Description	Customer Order Manager and Bookkeeper records payment from customer. For retail customers, full payment is required. For wholesale customers, payment terms are negotiated and flexible payment schedules are created.
Actors	Customer Order Manager, Bookkeeper
Related Use Case	Update Order Status, Record Sales Transaction, and Manage Accounts Receivable
Preconditions	<ul style="list-style-type: none"> • User must be logged in • An order must exist in the system

	<ul style="list-style-type: none"> Customer type (wholesale/retail) must be determined
Postconditions	<ul style="list-style-type: none"> Payment is recorded in the system Order payment status is updated Outstanding balance is updated (for wholesale) Sales transaction is recorded Receipt is generated
Flow of Activities	<p>Actor (Retail Payment):</p> <ol style="list-style-type: none"> Staff opens the order to process payment Staff selects payment method (Cash/GCash/Bank Transfer/Check) Staff enters full payment amount Staff records payment details Staff confirms payment <p>Actor (Wholesale Payment):</p> <ol style="list-style-type: none"> Owner negotiates payment terms with customer Owner creates payment schedule (2-3 installments or post-dated check) Owner records payment agreement details in order. Owner may release order without initial payment When customer makes installment payment, owner opens the order and records payment <p>System:</p> <ol style="list-style-type: none"> System displays order details and amount due System shows payment method options based on customer type For retail: <ol style="list-style-type: none"> System requires full payment amount For wholesale: <ol style="list-style-type: none"> System allows flexible payment amounts System validates payment information System records payment transaction System updates order payment status System updates accounts receivable System generates receipt <p>10. For wholesale:</p> <ol style="list-style-type: none"> System creates payment reminders for future installments
Exception Conditions	<ul style="list-style-type: none"> If retail customer payment amount is less than total, system rejects and warns user and requires full payment. If wholesale payment schedule exceeds 1 month or the agreed-upon date, system warns the user.

3.2 LOGISTICS & DELIVERY MODULE

Field	Description
Use Case Name	Process Delivery
Scenario	Deliverer picks up products and delivers to customer location
Triggering Events	Deliverer receives delivery assignment
Brief Description	The owner reviews the delivery schedule and handles the delivery personally or has a family member do it.
Actors	Owner, Deliverer
Related Use Case	Update Delivery Status, Collect Payment on Delivery
Preconditions	<ul style="list-style-type: none"> • Deliverer must be logged in • Delivery should be assigned to the deliverer • Products must be prepared and ready for pickup • Delivery address must be confirmed
Postconditions	<ul style="list-style-type: none"> • Order is delivered to customer • Delivery status is updated to "Completed" • Delivery timestamp is recorded • Customer signature/confirmation is captured (if applicable)
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. The actor views assigned deliveries 2. The actor selects a delivery to process 3. The actor confirms product pickup from warehouse/store 4. The actor navigates to delivery location 5. The actor delivers products to customer 6. The actor obtains customer confirmation/signature 7. The actor confirms delivery completion
	<p>System:</p> <ol style="list-style-type: none"> 1. System displays assigned deliveries with priorities 2. System shows delivery details including: <ul style="list-style-type: none"> • Customer name and contact • Delivery address • Product list and quantities

	<ul style="list-style-type: none"> • Special delivery instructions <p>3. System updates status to "Picked Up" upon confirmation</p> <p>4. System records pickup timestamp</p> <p>5. System updates status to "In Transit"</p> <p>6. System tracks delivery route (if GPS enabled)</p> <p>7. System prompts for customer confirmation</p> <p>8. System records delivery completion timestamp</p> <p>9. System updates order status to "Delivered"</p> <p>10. System sends delivery confirmation to customer and coordinator</p>
Exception Conditions	<ul style="list-style-type: none"> • If customer is not available, system allows actor to reschedule or leave note • If products are damaged during transit, system records incident and alerts coordinator • If delivery address is incorrect, system allows actor to contact customer and update address • If customer refuses delivery, system records reason and returns order to pending status

Field	Description
Use Case Name	Collect Payment on Delivery
Scenario	Deliverer collects payment from customer upon delivery completion
Triggering Events	Order is delivered
Brief Description	The deliverer collects payment from the customer at the time of delivery, records the payment in the system, and provides a receipt to the customer. System updates order and payment status.
Actors	Deliverer
Related Use Case	Process Delivery, Record Sales Transaction
Preconditions	<ul style="list-style-type: none"> • Delivery must be completed • Order total amount must be available
Postconditions	<ul style="list-style-type: none"> • Payment is recorded in the system • Order payment status is updated to "Paid OR"

	<p>Pending (if installment)"</p> <ul style="list-style-type: none"> ● Payment receipt is generated ● Financial records are updated
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. The actor completes delivery 2. The actor views order total amount 3. The actor collects cash from customer 4. The actor enters amount received 5. The actor confirms payment collection 6. The actor provides receipt to customer <p>System:</p> <ol style="list-style-type: none"> 1. System displays order amount due 2. System shows breakdown of charges 3. System prompts for payment collection 4. System validates amount entered matches order total 5. System records payment transaction with: <ul style="list-style-type: none"> ● Order ID ● Amount collected ● Payment method (COD) ● Timestamp ● Collector (deliverer) 6. System generates payment receipt 7. System updates order status to "Paid and Delivered" 8. System updates deliverer collection record 9. System sends payment confirmation to customer 10. System updates financial records
Exception Conditions	<ul style="list-style-type: none"> ● If customer provides insufficient payment, system calculates and displays remaining balance ● If customer requests to pay partial amount, system records partial payment and updates balance due ● If exact change is not available, system records amount tendered and change given ● If payment is disputed, system allows actor to add notes and flag for coordinator review

3.3 PURCHASING & SUPPLIERS MANAGER

Field	Description
Use Case Name	Create Purchase Order
Scenario	Owner needs to replenish inventory from suppliers
Triggering Events	Low stock alert generated or owner manually initiates purchase order
Brief Description	Owner or purchase manager creates purchase order to supplier for product replenishment. This is triggered when inventory falls below reorder points or when specific products are needed.
Actors	Owner, Purchase Manager
Related Use Case	Manage Supplier Profile, Monitor Stock Levels, Record Product Receipt
Precondition s	<ul style="list-style-type: none"> • User must be logged in with purchasing manager role • Suppliers must exist in the system • Products must be defined in catalog
Postconditions	<ul style="list-style-type: none"> • Purchase order is created in the system • PO status is set to "Pending" • PO number is generated • The expected delivery date is recorded
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. The actor navigates to purchase order creation 2. The actor selects a supplier 3. The actor views supplier information and terms 4. The actor adds products to the order: <ul style="list-style-type: none"> • Selects product • Enters quantity needed • Enters unit price 5. The actor reviews order summary and total 6. The actor enters pickup details: <ul style="list-style-type: none"> • Expected pickup date • pickup address • Special instructions 7. The actor adds notes or comments

	<p>8. The actor submits the purchase order</p>
	<p>System:</p> <ol style="list-style-type: none"> 1. System displays PO creation interface 2. System loads supplier list 3. System displays selected supplier details including: <ul style="list-style-type: none"> • Payment terms • Typical pickup lead time • Contact information 4. System provides product search/selection 5. System displays product details (current stock, last purchase price) 6. System calculates line totals (quantity × unit price) 7. System calculates order subtotal and total 8. System validates: <ul style="list-style-type: none"> • Quantities are positive numbers • Prices are entered • Pickup date is in the future 9. System generates unique PO number 10. System saves purchase order 11. System displays PO confirmation with PO number 12. System logs the transaction
Exception Conditions	<ul style="list-style-type: none"> • If selected supplier has no active contact, system warns user • If product price significantly differs from last purchase price, system alerts user • If expected delivery date conflicts with supplier's lead time, system displays warning • If approval is required but no approver is designated, system alerts user

Field	Description
Use Case Name	Record Product Receipt
Scenario	Supplier delivers products to LiamKai
Triggering Events	Supplier arrives with ordered products
Brief Description	Owner or inventory manager receives products from supplier, verifies quantities and quality, and records receipt in system. System updates inventory levels and purchase order status.
Actors	Owner, Inventory Manager

Related Use Case	Create Purchase Order, Update Purchase Order Status, Record Stock Movement
Preconditions	<ul style="list-style-type: none"> • Purchase order must exist • Products must be delivered by supplier • User must be logged in
Postconditions	<ul style="list-style-type: none"> • Product receipt is recorded • Inventory levels are updated (increased) • Purchase order status updated to "Received" or "Partially Received" • Receipt timestamp is recorded
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. Supplier arrives with products 2. Owner/Inventory Manager accesses pending purchase orders 3. Owner selects the corresponding purchase order 4. Owner physically counts and inspects delivered products 5. Owner verifies quantities match purchase order 6. Owner checks product quality and condition (frozen products properly stored) 7. Owner enters received quantities in system 8. If any discrepancies, owner notes them (short delivery, damaged items) 9. Owner confirms product receipt 10. Owner signs supplier's delivery receipt <p>System:</p> <ol style="list-style-type: none"> 1. System displays list of pending purchase orders 2. System shows PO details and expected quantities 3. System records received quantities for each product 4. System allows entry of discrepancy notes 5. System updates inventory quantities (adds received stock) 6. System updates purchase order status: <ul style="list-style-type: none"> • "Received" if all items received • "Partially Received" if some items pending 7. System timestamps receipt 8. System creates stock movement record (Stock In) 9. System removes low stock alerts for replenished products
Exception Conditions	<ul style="list-style-type: none"> • If received quantity is less than ordered, system

	<p>marks as "Partially Received" and notes shortage</p> <ul style="list-style-type: none"> • If products are damaged or incorrect, owner can reject receipt and system notes issue • If quantity discrepancy is significant (>10% difference), system alerts owner to verify with supplier
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3.4 INVENTORY MODULE

Field	Description
Use Case Name	Monitor Stock Levels
Scenario	Owner or inventory manager checks current inventory status
Triggering Events	User wants to view stock levels, or system automatically checks during order creation
Brief Description	User views current stock quantities for all products. System displays available stock, low stock warnings, and out of stock items. System automatically checks stock availability when orders are created.
Actors	Owner and Inventory Manager
Related Use Case	Create Customer Order, Generate Inventory Alert, Record Stock Movement
Preconditions	<ul style="list-style-type: none"> • User must be logged in • Products must exist in catalog • Reorder points must be set for products
Postconditions	<ul style="list-style-type: none"> • Current stock levels are displayed • Low stock items are highlighted • Out of stock items are identified
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. User accesses inventory module 2. User views stock levels dashboard 3. User can filter by product category or search specific product 4. User identifies products needing replenishment <p>System:</p>

	<ol style="list-style-type: none"> 1. System retrieves current inventory data 2. System displays all products with quantities 3. System highlights products below reorder point in yellow 4. System marks out of stock products in red 5. System shows stock status (Available/Low Stock/Out of Stock) 6. System filters results based on user selection 7. System generates low stock alert if threshold reached 8. System automatically checks if ordered quantity is available 9. System prevents order if stock insufficient 10. System warns if order will bring stock below reorder point
Exception Conditions	<ul style="list-style-type: none"> • If multiple products are low stock, system prioritizes alerts by importance or sales frequency • If products are expired (frozen items), system flags for removal

3.6 USER AND AUTHENTICATION

Field	Description
Use Case Name	Log In
Scenario	User accesses the LiamKai system
Triggering Events	User wants to use the system and needs to authenticate
Brief Description	All users (Owner, Sales Staff, Bookkeeper, Inventory Manager, Logistics Staff) log into system using username and password. System verifies credentials and grants access based on assigned role and permissions.
Actors	All Users (Owner, Sales Staff, Bookkeeper, Inventory Manager, Logistics Staff)
Related Use Case	Assign Roles & Permissions, View Employee Login Logs
Preconditions	<ul style="list-style-type: none"> • User must have active employee account • User must know username and password • System must be accessible

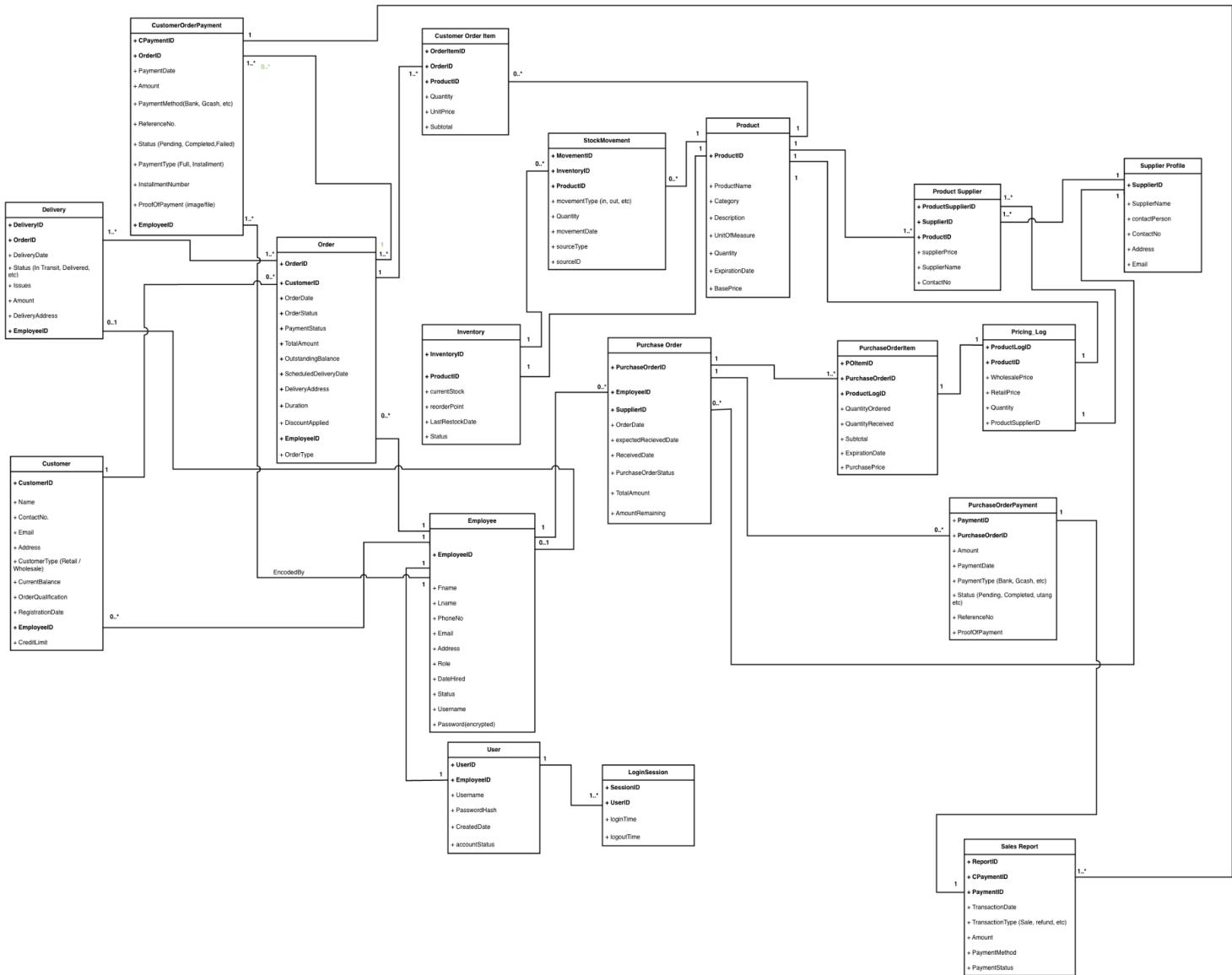
Postconditions	<ul style="list-style-type: none"> • User is authenticated and logged in • User session is created • User can access features based on assigned role • Login event is recorded in system logs
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. User accesses LiamKai system (web or desktop application) 2. User sees login screen 3. User enters username 4. User enters password 5. User clicks "Log In" button 6. System authenticates and user is redirected to dashboard 7. User sees dashboard appropriate for their role: <ul style="list-style-type: none"> • Owner: Full access to all modules • Sales Staff: Customer orders, payments, customer info • Bookkeeper: Financial management, reports • Inventory Manager: Inventory, stock levels, alerts • Logistics Staff: Delivery management
	<p>System:</p> <ol style="list-style-type: none"> 1. System captures username input 2. System captures password (encrypted) 3. System validates credentials against user database 4. System checks if account is active (not deactivated) 5. System verifies user role and permissions 6. System creates user session 7. System records login event with timestamp and IP address 8. System loads appropriate dashboard based on user role 9. System displays user name and role on interface 10. System enables/disables menu options based on permissions
Exception Conditions	<ul style="list-style-type: none"> • If username doesn't exist, system displays "Invalid username or password" • If password is incorrect, system displays "Invalid username or password" • If account is deactivated, system displays "Account is no longer active. Contact administrator" • If user enters wrong password 3 times, system locks account temporarily (15 minutes) and displays "Too many failed attempts. Try again later"

3.7 ADMINISTRATION MODULE

Field	Description
Use Case Name	Create Employee Account
Scenario	Owner creates new user account for employee
Triggering Events	New employee is hired and needs system access
Brief Description	Owner creates new employee account with login credentials and assigns appropriate role (Sales Staff, Bookkeeper, Inventory Manager, Logistics Staff) with specific permissions for system modules.
Actors	Owner
Related Use Case	Assign Roles & Permissions, Log In
Preconditions	<ul style="list-style-type: none"> • Owner must be logged in • New employee information must be available
Postconditions	<ul style="list-style-type: none"> • New employee account is created • Login credentials are generated • Role and permissions are assigned • Employee can log into system • Account appears in employee list
Flow of Activities	<p>Actor:</p> <ol style="list-style-type: none"> 1. Owner accesses the Administration module 2. Owner clicks "Create Employee Account" 3. Owner enters employee information: <ul style="list-style-type: none"> • Full Name • Contact Number • Email (optional) • Address • Position/Job Title 4. Owner creates login credentials: <ul style="list-style-type: none"> • Username • Temporary Password 5. Owner assigns role: <ul style="list-style-type: none"> • Sales Staff • Bookkeeper • Inventory Manager • Logistics Staff

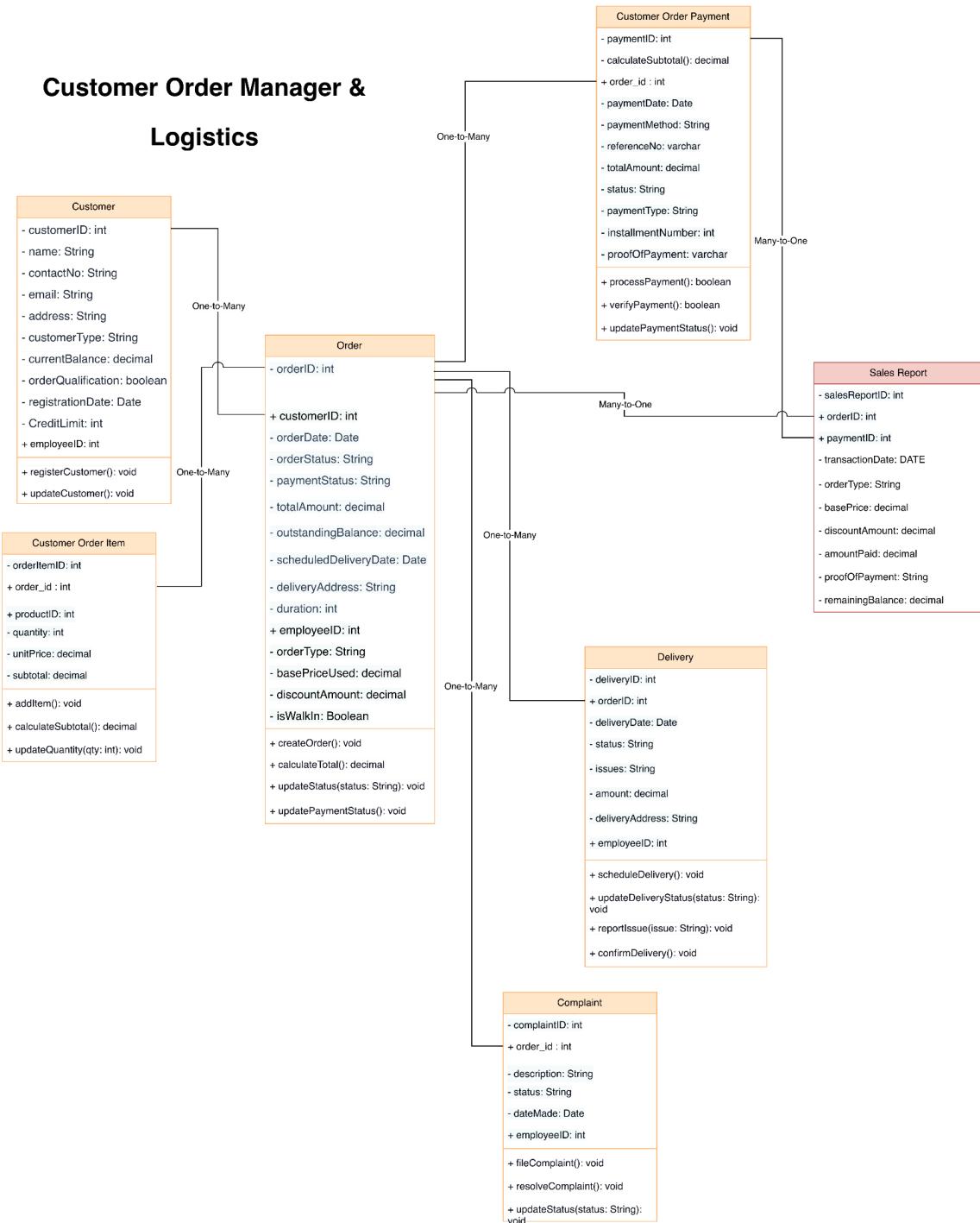
	<ul style="list-style-type: none"> ● Purchase Manager <p>6. Owner assigns Type:</p> <ul style="list-style-type: none"> ● Wholesale ● Retail <p>7. Owner sets permissions based on role (system auto-suggests)</p> <p>8. Owner reviews account details</p> <p>9. Owner saves and creates account</p> <p>10. Owner provides login credentials to employee</p>
	<p>System:</p> <ol style="list-style-type: none"> 1. System provides employee information form 2. System checks if username is unique 3. System validates password strength 4. System encrypts password for storage 5. System displays available roles 6. System auto-suggests permissions based on selected role: <ul style="list-style-type: none"> ● Sales Staff: Customer orders, view inventory, process payments ● Bookkeeper: Financial management, reports, accounts ● Inventory Manager: Inventory module, stock levels, alerts ● Logistics Staff: Delivery management Purchase Manager: Suppliers, purchase orders 7. Owner can customize permissions as needed 8. System validates all required fields are completed 9. System generates unique employee ID 10. System creates employee account record 11. System sets account status to "Active" 12. System timestamps account creation 13. System displays confirmation with employee ID and username 14. System optionally generates welcome email/message with credentials
Exception Conditions	<ul style="list-style-type: none"> ● If username already exists, system displays "Username already taken. Please choose another" ● If password is too weak, system displays "Password must be at least 8 characters with letters and numbers" ● If required fields are missing, system highlights them an

4. Domain Class Diagram (Whole System)

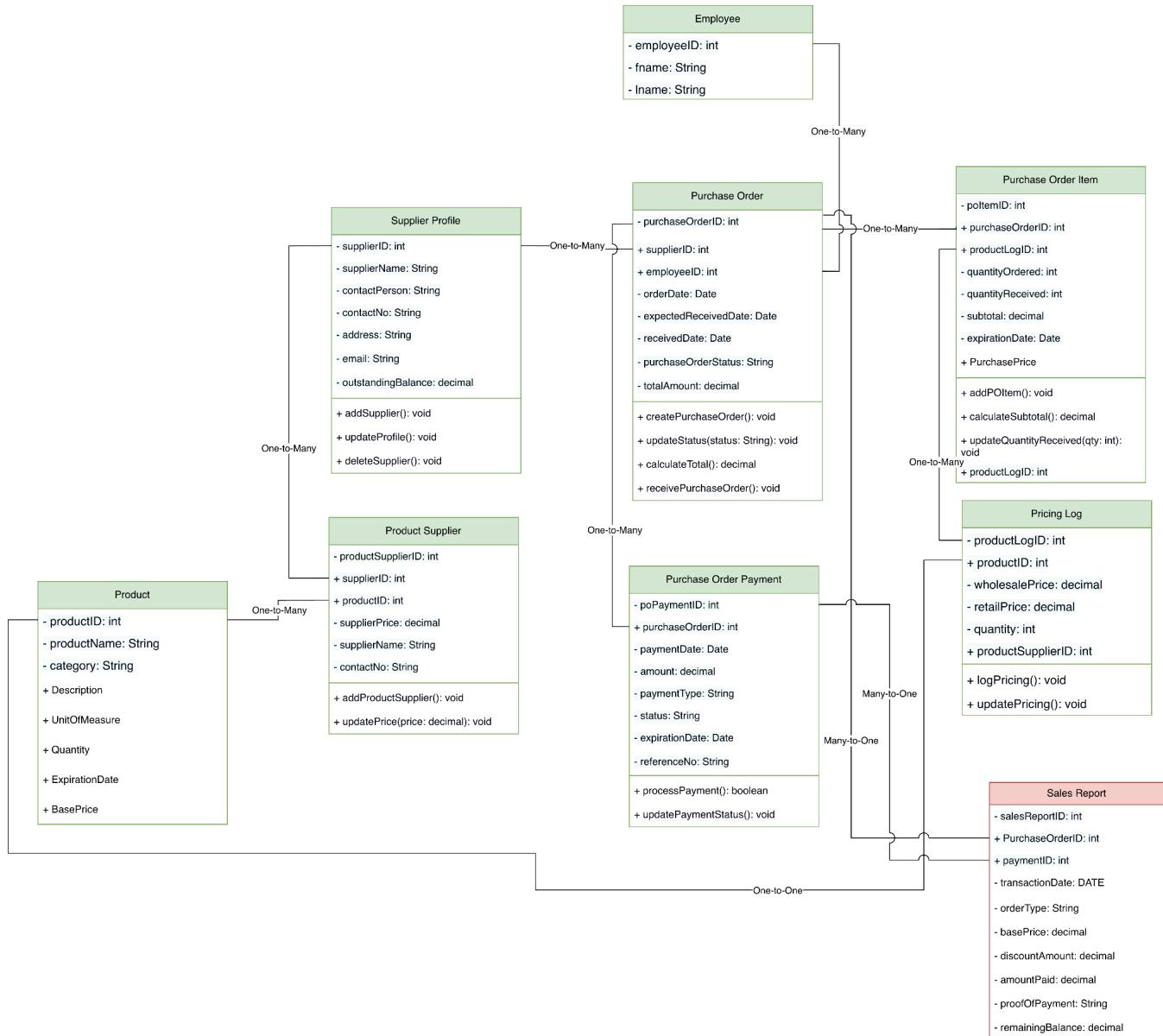


5. Design Class Diagram (Per Subsystem)

5.1 Customer Order Manager & Logistics

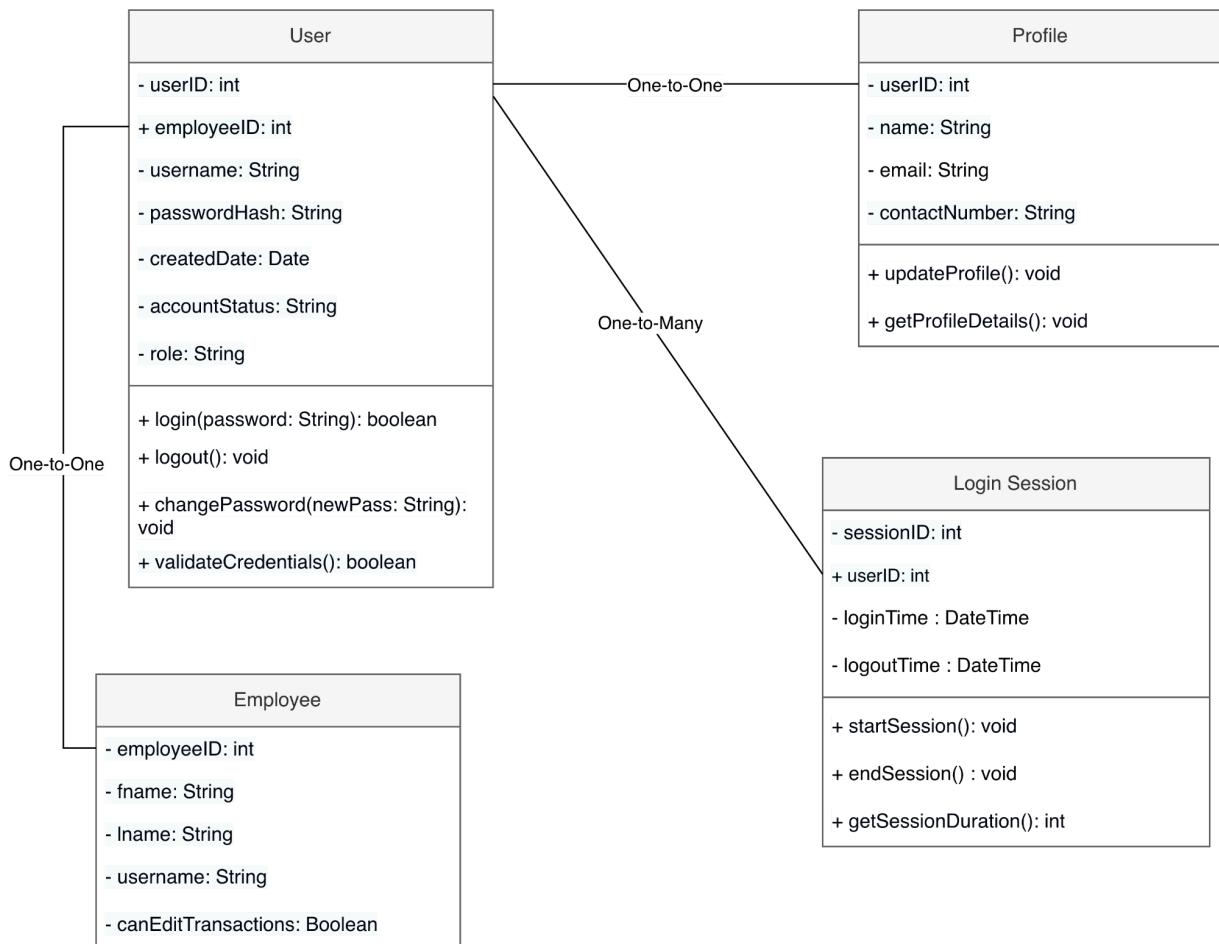


5.2 Purchasing & Suppliers Manager



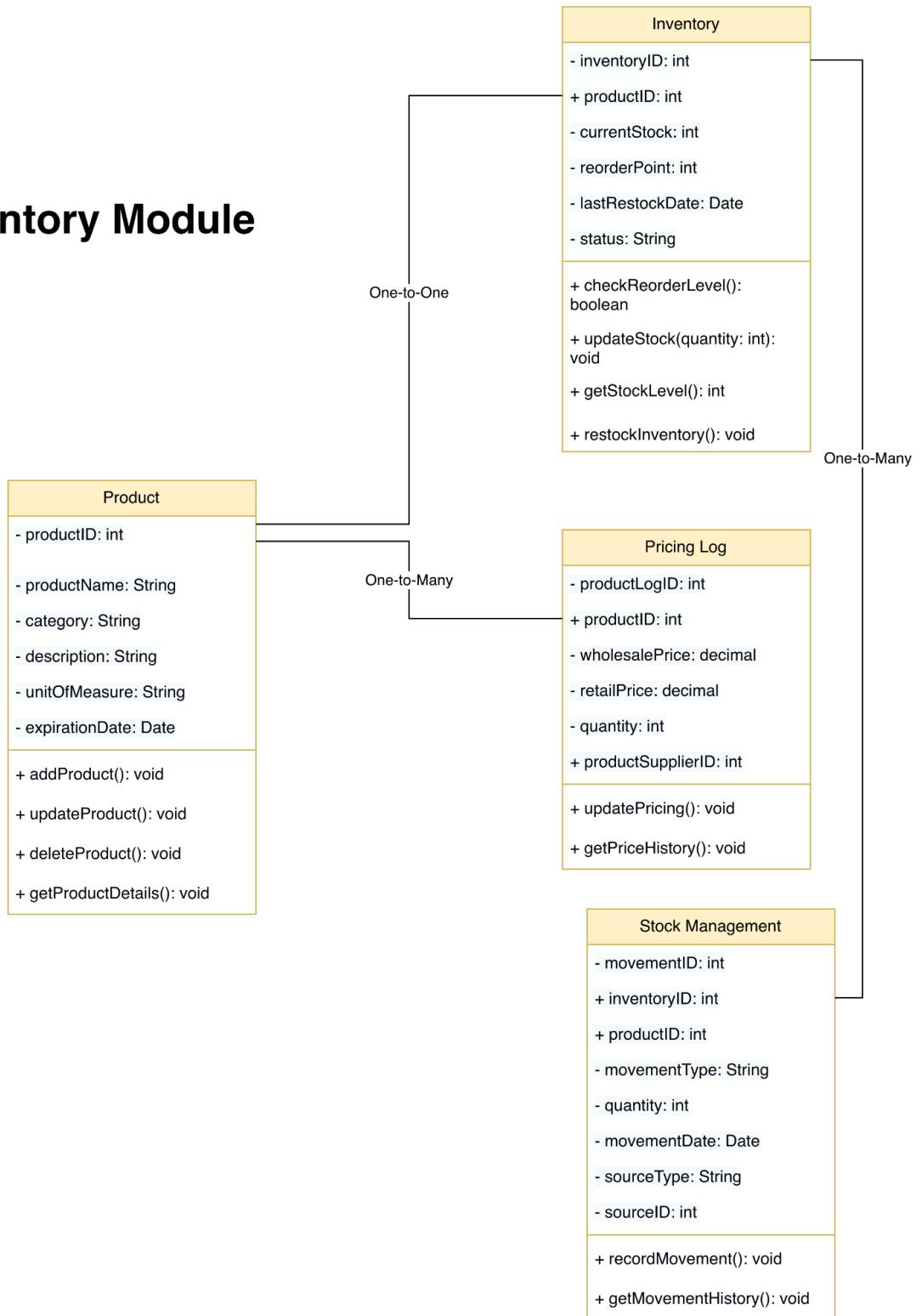
5.3 User & Authentication Module

User & Authentication Module

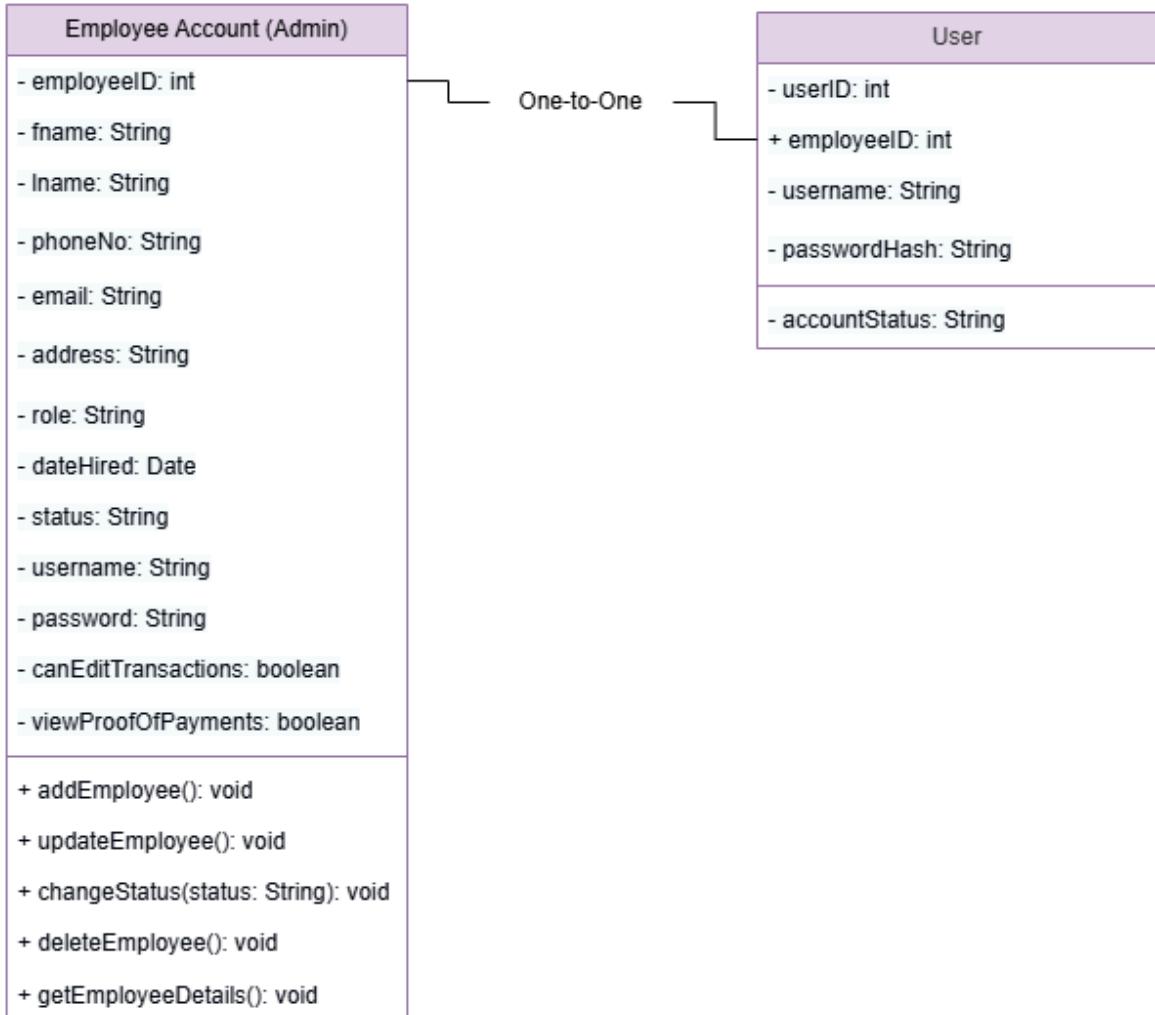


5.4 Inventory Module

Inventory Module

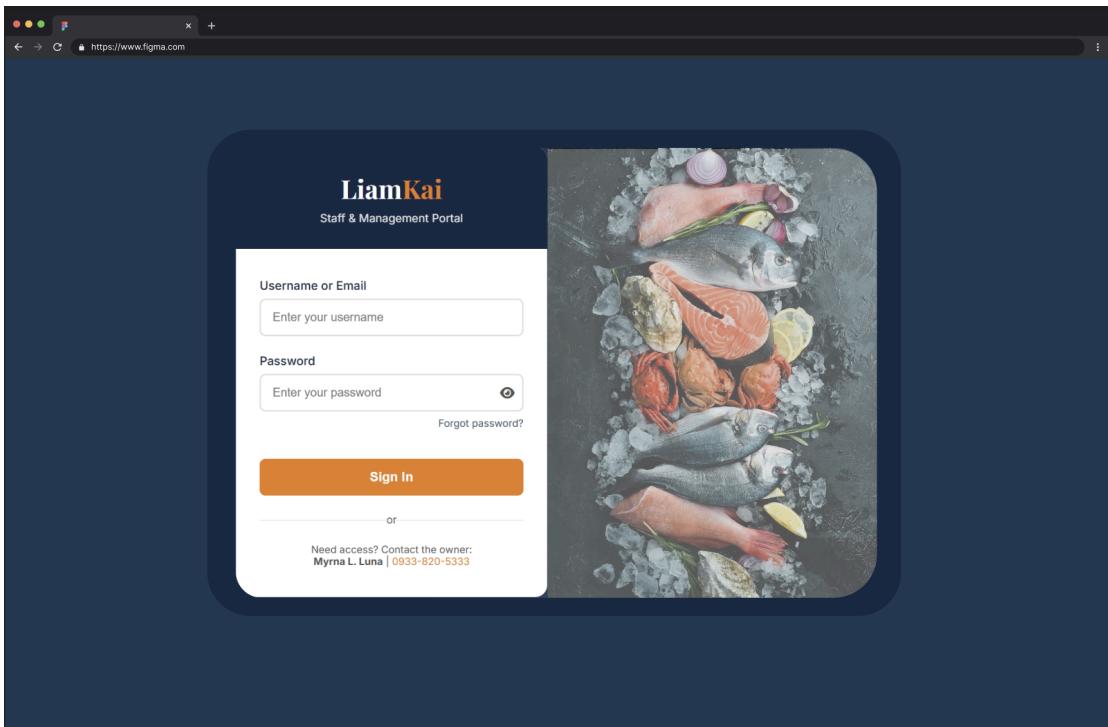


5.6 Administration Module



6. UI Design

6.1. Log In



6.2. Dashboard

A screenshot of the LiamKai Management Portal dashboard. The left sidebar shows the LiamKai logo, the user's name "Myrna Luna" with a profile icon, and a "Log out" button. The main dashboard area has a title "Dashboard" and a welcome message "Welcome, Myrna! What would you like to do today?". It features five rounded square buttons with icons and labels: "Customer Order" (shopping cart), "Logistics" (truck), "Inventory" (warehouse), "Purchasing" (briefcase), and "Employee" (person). The background of the dashboard is light gray.

6.3. Customer Order Management

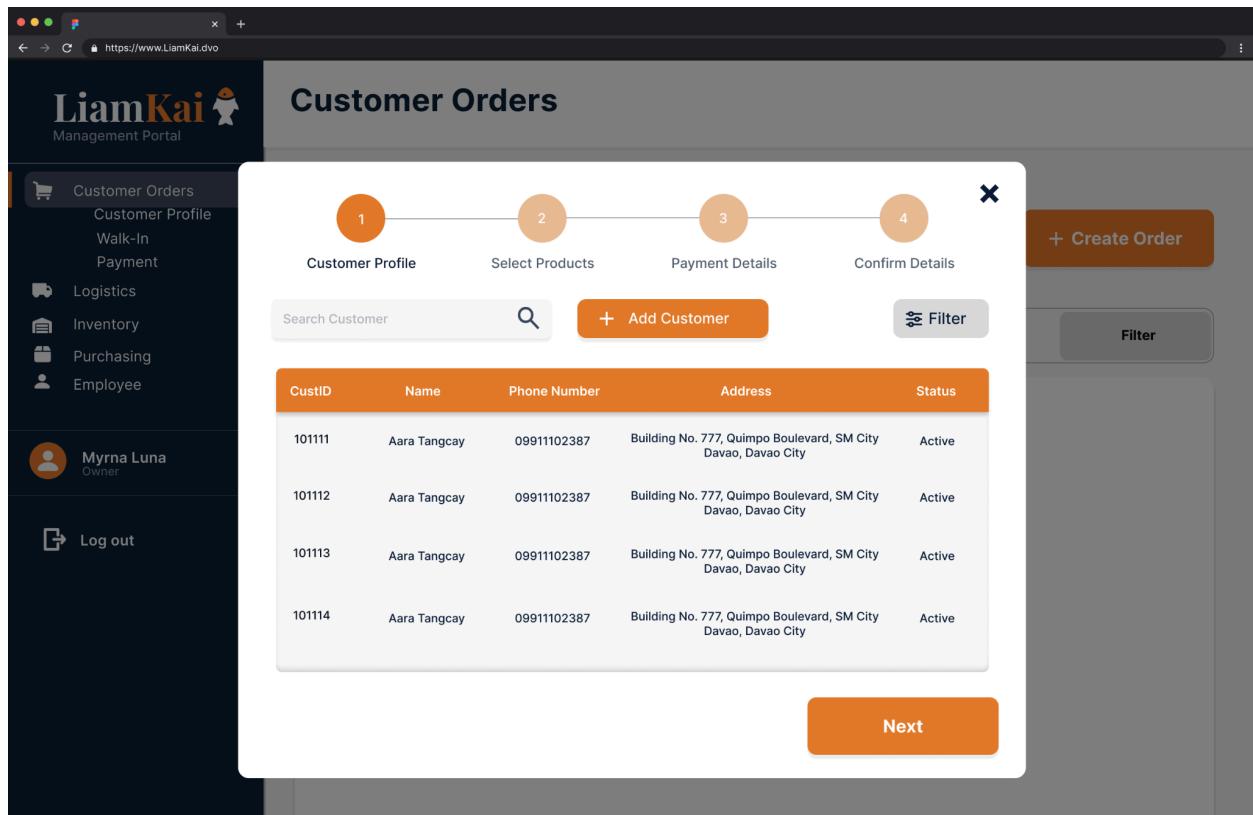
6.3.1 Customer Orders

The screenshot shows the LiamKai Management Portal's Customer Orders page. The left sidebar includes links for Customer Orders, Customer Profile, Walk-In Payment, Logistics, Inventory, Purchasing, Employee, and a user profile for Myrna Luna (Owner). The main area displays an 'Order History' section with tabs for All Orders, Pending, Delivered, and a search bar. A large table lists 'All Orders' with columns for OrderID, Customer Name, Customer Type, Date Ordered, Date Delivered, Payment Status, Order Status, and Action (View). There are five orders listed, all from customer Aara Tangcay.

OrderID	Customer Name	Customer Type	Date Ordered	Date Delivered	Payment Status	Order Status	Action
101111	Aara Tangcay	Wholesale	11-27-2025	11-28-2025	0/1	Cancelled	<button>View</button>
101111	Aara Tangcay	Wholesale	11-28-2025	11-29-2025	2/3	Delivered	<button>View</button>
101111	Aara Tangcay	Retail	11-29-2025	11-30-2025	1/1	Completed	<button>View</button>
101111	Aara Tangcay	Wholesale	11-30-2025	12-01-2025	3/4	Delivered	<button>View</button>

This screenshot shows a detailed view of a customer order. The top part displays 'Delivery Details' for customer Kiona Luna with notes about defrosting. Below this is the 'Payment Details' section, which includes payment method (Bank Transfer), due date (November 20, 2025), payment type (Full), and payment status (0/1). The bottom section is the 'Summary' table, which shows items like Tuna Belly, Tuna Steak (Multiple), and Salmon Whole Fish, along with a voucher for a 5% discount. The total amount is ₱ 1,721.25.

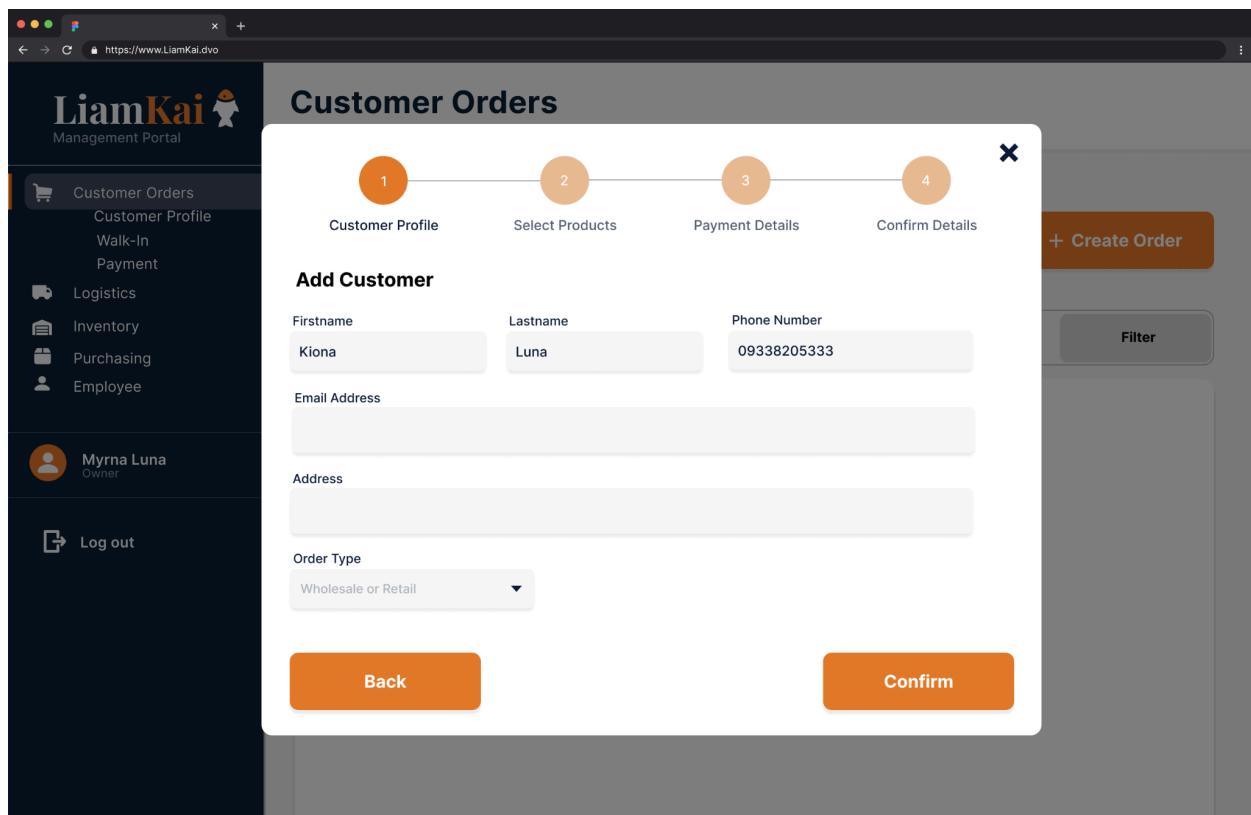
Item	Qty	Price	Total
Tuna Belly	0.567	₱ 400	₱ 226.8
Tuna Steak (Multiple)	0.898	₱ 400	₱ 359.2
Salmon Whole Fish	1.362	₱ 900	₱ 1,225.8



The screenshot shows the first step of the customer order process: Customer Profile. The interface includes a navigation bar with 'Customer Orders' selected, and a sidebar with 'Myrna Luna Owner' logged in. The main content area displays a table of customer profiles:

CustID	Name	Phone Number	Address	Status
101111	Aara Tangcay	09911102387	Building No. 777, Quimpo Boulevard, SM City Davao, Davao City	Active
101112	Aara Tangcay	09911102387	Building No. 777, Quimpo Boulevard, SM City Davao, Davao City	Active
101113	Aara Tangcay	09911102387	Building No. 777, Quimpo Boulevard, SM City Davao, Davao City	Active
101114	Aara Tangcay	09911102387	Building No. 777, Quimpo Boulevard, SM City Davao, Davao City	Active

Below the table is an orange 'Next' button.



The screenshot shows the second step of the customer order process: Add Customer. The interface includes a navigation bar with 'Customer Orders' selected, and a sidebar with 'Myrna Luna Owner' logged in. The main content area displays an 'Add Customer' form:

Add Customer

Firstname	Lastname	Phone Number
Kiona	Luna	09338205333

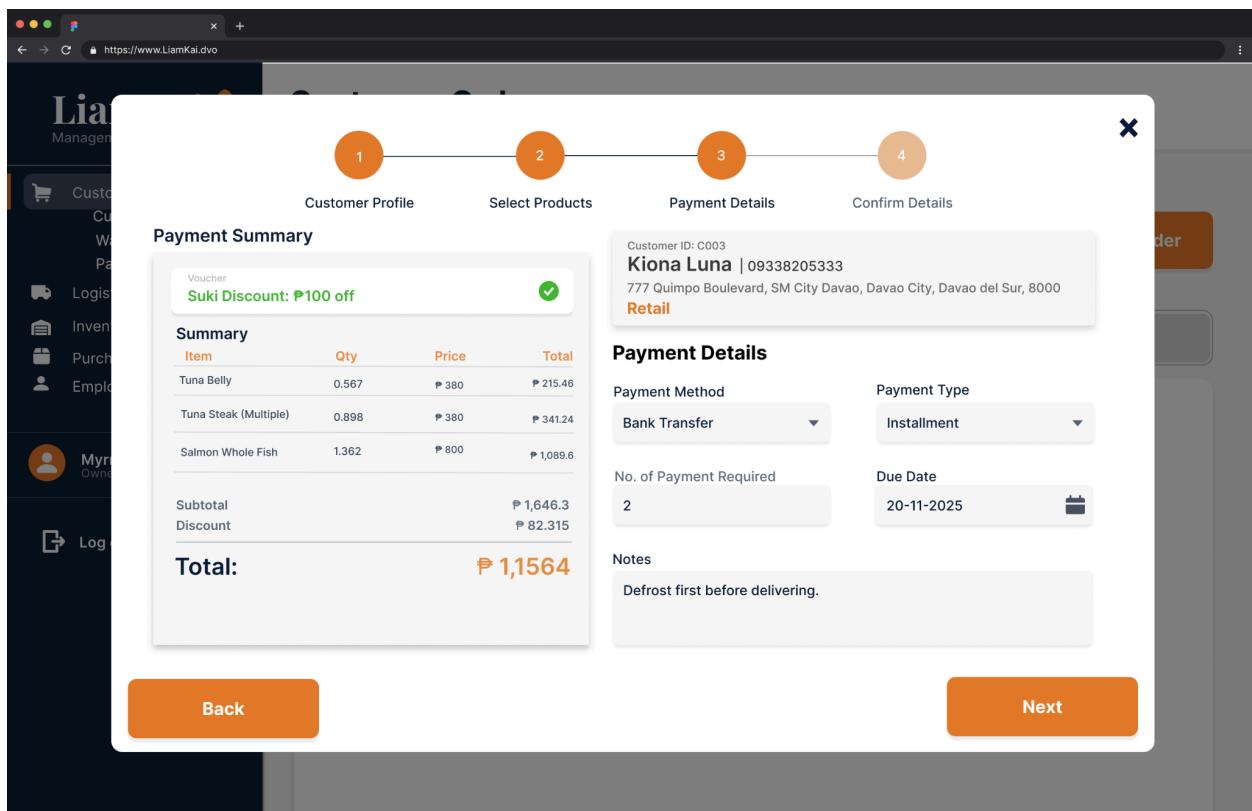
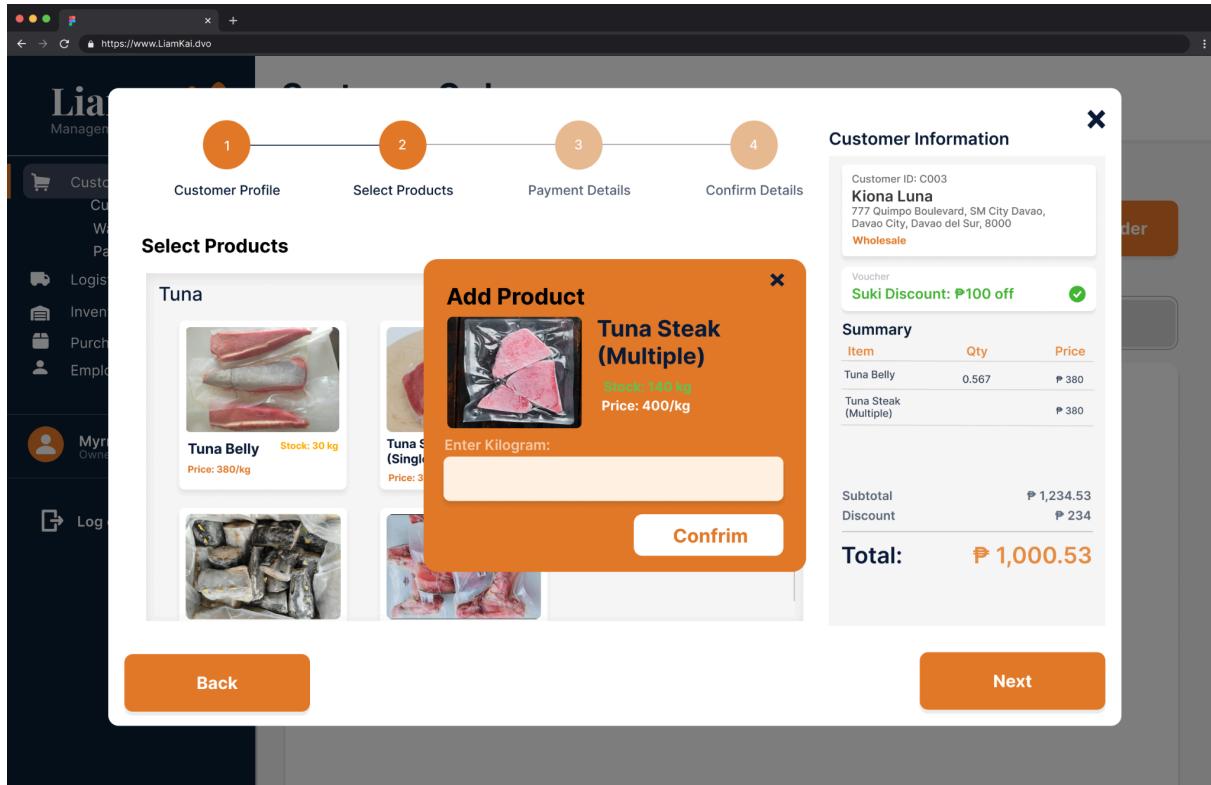
Email Address: (empty)

Address: (empty)

Order Type: Wholesale or Retail

At the bottom are 'Back' and 'Confirm' buttons.

6.3.1.1 Customer Orders Wholesale



6.3.1.2 Customer Orders Retail

Select Products

Tuna

Item	Stock	Price
Tuna Belly	30 kg	₱ 400
Tuna Steak (Single)	40 kg	₱ 400
Tuna Steak (Multiple)	140 kg	₱ 400

Customer Information

Customer ID: C003
Kiona Luna | 09338205333
 777 Quimpo Boulevard, SM City Davao,
 Davao City, Davao del Sur, 8000
Retail

Voucher
Suki Discount: ₱100 off ✓

Summary

Item	Qty	Price
Tuna Belly	0.567	₱ 400
Tuna Steak (Multiple)	0.898	₱ 400
Salmon Whole Fish	1.362	₱ 900

Subtotal: ₱ 1,234.53
 Discount: ₱ 234
Total: ₱ 1,000.53

Back **Next**

Payment Summary

Voucher
Suki Discount: ₱100 off ✓

Summary

Item	Qty	Price	Total
Tuna Belly	0.567	₱ 400	₱ 226.8
Tuna Steak (Multiple)	0.898	₱ 400	₱ 359.2
Salmon Whole Fish	1.362	₱ 900	₱ 1,225.8

Subtotal: ₱ 1,811.8
 Discount: ₱ 90.55
Total: ₱ 1,721.25

Customer Information

Customer ID: C003
Kiona Luna | 09338205333
 777 Quimpo Boulevard, SM City Davao, Davao City, Davao del Sur, 8000
Retail

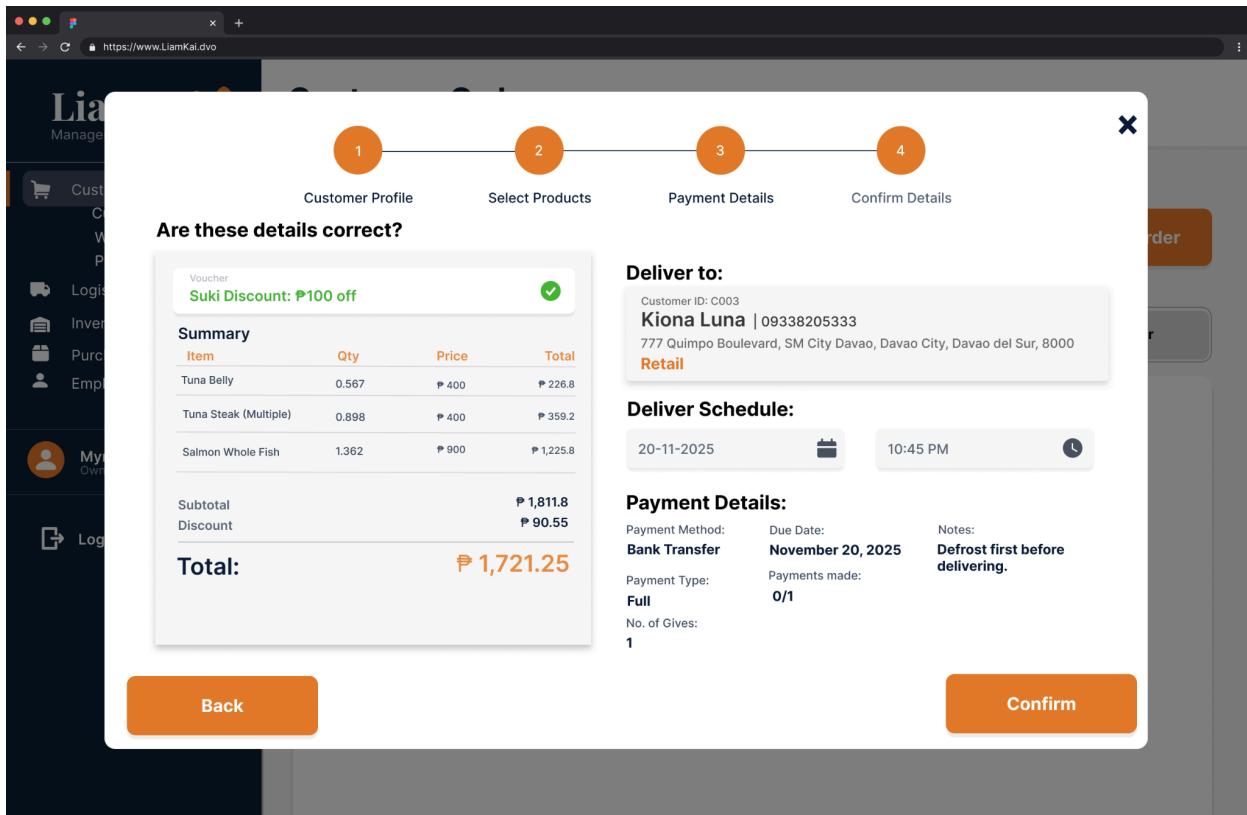
Payment Details

Payment Method: **Cash** ▼ Payment Type: **Full**

No. of Payment Required: **1** Due Date: **20-11-2025** ▼

Notes: **Defrost first before delivering.**

Back **Next**



6.3.2 Customer Profile

The screenshot shows the 'Customer Orders' section of the LiamKai Management Portal. On the left sidebar, there are links for Customer Orders, Customer Profile, Walk-In Payment, Logistics, Inventory, Purchasing, Employee, and a user profile for 'Myrna Luna'. The main area is titled 'Customer Profile' and displays a grid of seven customer profiles, each with a circular profile picture, a unique ID (C001-C007), the customer's name, and a 'View Profile' button.

ID	Name	Action
C001	Kiona Maree L. Luna	View Profile
C002	Jhero M. Hinggo	View Profile
C003	Aara Angelique P. Tangcay	View Profile
C005	Naruto Uzumaki	View Profile
C006	Patrick Star	View Profile
C007	Spongebob Squarepants	View Profile

This screenshot shows a detailed view of a customer profile for 'Kiona L. Luna'. The profile includes contact information (Contact No.: 09234676543, Email: Kiona@liamkai.com, Address: 777 Quimpo Boulevard, SM City Davao, Davao City, Davao del Sur, 8000), a registration date of 11/02/2025, and an order qualification status of 'APPROVED'. To the right, there are summary statistics: 10 total orders, 2 pending orders, and 0 cancelled orders. The balance is listed as ₱12,234. Below this, a table shows the 'Customer Order History' with several entries for Tuna Steak orders from November 15th and 5th, all marked as 'Delivered'.

Date	Item	Quantity	Status	Amount
15 Nov	Tuna Steak	40kg	Pending	₱12,234
15 Nov	Tuna Pangas	15kg	Pending	₱4,234
5 Nov	Tuna Steak	30kg	Delivered	₱10,234
5 Nov	Tuna Steak	40kg	Delivered	₱12,234
5 Nov	Tuna Steak	40kg	Delivered	₱12,234
5 Nov	Tuna Steak	40kg	Delivered	₱12,234

6.3.3 Walk-In (POS)

LiamKai Management Portal

Walk-In

Customer Information
Customer Name:
Voucher:

Current Order:

Payment Summary:
Subtotal:
Discount:
Total:

Category: Filter

Tuna:

- Tuna Belly**: Stock: 30 kg, Price: 400/kg
- Tuna Steak (Single)**: Stock: 40 kg, Price: 400/kg
- Tuna Steak (Multiple)**: Stock: 140 kg, Price: 400/kg
- Tuna Tail (Buntot)**: Stock: 5 kg, Price: 260/kg
- Tuna Jaw (Panga)**: Stock: 30 kg, Price: 280/kg

Salmon:

LiamKai Management Portal

Walk-In

Customer Information: Customer Name: Kiona Luna, Voucher: Suki Discount: 5% off

Current Order:

Payment Summary: Subtotal: Php 1,234.53, Discount: Php 234, Total: Php 1,000.53

Add Product: X

Tuna Steak (Multiple): Stock: 140 kg, Price: 400/kg

Enter Kilogram:

Confirm:

Tuna:

Tuna Belly: Price: 400/kg

Tuna Tail (Buntot): Price: 260/kg

Salmon:

LiamKai Management Portal

Current Order

	Tuna Belly Php 400/kg	0.567	<input type="button" value="Edit"/>
	Tuna Steak (Multiple) Php 400/kg	0.398	<input type="button" value="Edit"/>
	Salmon Whole Fish Php 900/kg	1.362	<input type="button" value="Edit"/>

Customer Information

Customer Name: Kiona Luna

Voucher: Suki Discount: 5%

Payment Summary

Item	Qty	Price
Tuna Belly	0.567	₱ 400
Tuna Steak (Multiple)	0.898	₱ 400
Salmon Whole Fish	1.362	₱ 900

Subtotal: ₱ 1,811.8
Discount: ₱ 90.55

Total: ₱ 1,721.25

Cash: 2000
Change: ₱ 278.75

LiamKai Management Portal

Current Order

	Tuna Belly Php 400/kg	0.567	<input type="button" value="Edit"/>
	Tuna Steak (Multiple) Php 400/kg	0.398	<input type="button" value="Edit"/>
	Salmon Whole Fish Php 900/kg	1.362	<input type="button" value="Edit"/>

Customer Information

Customer Name: Kiona Luna

Voucher: Suki Discount: 5% off

Payment Summary

Item	Qty	Price
Tuna Belly	0.567	₱ 400
Tuna Steak (Multiple)	0.898	₱ 400
Salmon Whole Fish	1.362	₱ 900

Subtotal: ₱ 1,811.8
Discount: ₱ 90.55

Total: ₱ 1,721.25

Cash: 2000
Balance: ₱ 278.75

LiamKai
Phase 1 blk 7 Lot 47, Rosewood Plains
Subdivision, Villa Kananga,
Butuan City
09999919053

OFFICIAL RECEIPT
Order no. 000001

Name	Date	Time
Kiona Luna	17-11-2025	10:52

Item	Qty	Price
Tuna Belly	0.567	₱ 400
Tuna Steak (Multiple)	0.898	₱ 400
Salmon Whole Fish	1.362	₱ 900

Subtotal: ₱ 1,811.8
Discount: ₱ 90.55
Total: ₱ 1,721.8
Cash: ₱ 2,000
Change: ₱ 278.75

Thank you!

The screenshot shows the LiamKai Management Portal interface. A central modal window displays a large green circle with a white checkmark and the text "Order Completed". The background shows the "Current Order" section with a list of items: Tuna Belly (0.567 kg at PHP 400/kg), Tuna Steak (Multiple) (0.898 kg at PHP 400), and Salmon Whole Fish (1.362 kg at PHP 900). The "Customer Information" section shows Kiona Luna as the customer name and a voucher for Suki Discount: 5% off. To the right, an "OFFICIAL RECEIPT" is shown with details: Name: Kiona Luna, Date: 17-11-2025, Time: 10:52. The receipt lists the items with their prices and the total amount of PHP 1,721.25. Buttons for "PAY" and "PRINT" are visible at the bottom right.

LiamKai Management Portal

Current Order

Tuna Belly
Php 400/kg
0.567

Customer Information

Kiona Luna

Voucher
Suki Discount: 5% off

OFFICIAL RECEIPT
Order no. 000001

Name: Kiona Luna
Date: 17-11-2025
Time: 10:52

Item	Qty	Price
Tuna Belly	0.567	PHP 400
Tuna Steak (Multiple)	0.898	PHP 400
Salmon Whole Fish	1.362	PHP 900

Subtotal: PHP 1,811.8
Discount: PHP 90.55
Total: PHP 1,721.8

Cash: PHP 2,000
Change: PHP 278.75

Thank you!

Total: PHP 1,721.25

Cash: 2000

Balance: PHP 278.75

Go Back

PAY

PRINT

6.5. Logistics and Delivery

The screenshot shows the LiamKai Management Portal interface. The left sidebar has a dark blue background with white text and icons. It includes links for Customer Orders, Logistics (which is selected and highlighted in orange), Inventory, Purchasing, and Employee. Below these is a user profile for 'Myrna Luna' labeled 'Owner' with a log-out option. The main content area has a light gray background with a title 'Logistics'. It features two summary boxes: one for 'En-route' orders (1) and another for 'Delivered Today' (0). A search bar and a 'Filter' button are located below these boxes. A table lists an order with details: Order # ORD001, Customer Juan Dela Cruz, Rider Blaise Pascal, Date 19-11-2025, Status En-route, and Actions (Update button).

Order #	Customer	Rider	Date	Status	Actions
ORD001	Juan Dela Cruz	Blaise Pascal	19-11-2025	En-route	<button>Update</button>

6.6. Purchasing and Suppliers

6.6.1 Purchasing Dashboard

The screenshot shows the LiamKai Management Portal's Purchasing dashboard. On the left is a dark sidebar with navigation links: Customer Orders, Logistics, Inventory, Purchasing (which is selected and highlighted in orange), Suppliers Profile, Payment, Sales Report, Employee, and a user profile for Myrna Luna (Owner). Below these are Log out and Help links. The main content area has a header "Purchasing" and "Order History". It features a search bar, a "+ Create PO" button, and a "Filter" button. Below this is a section titled "All Orders" with two entries:

- PO #C003** - Status: Fully Paid. Myrna Luna. Amount Paid: Php 1,811.8.
- PO #C004** - Status: Not Paid. Myrna Luna. Amount Paid: Php 1,000.53. Outstanding Balance: Php 1,000.53.

There are "Order Details" buttons next to each order entry.

6.6.1.1 Order Details

The screenshot shows the "Order Details" modal window. At the top left is the title "Order Details" and a close button. At the top right are "Back" and "Confirm" buttons. The modal is divided into several sections:

- Summary**: A table showing item details:

Item	Qty	Price	Total
Tuna Belly	0.567	₱ 400	₱ 226.8
Tuna Steak (Multiple)	0.898	₱ 400	₱ 359.2
Salmon Whole Fish	1.362	₱ 900	₱ 1,225.8

Total: ₱ 1,811.8
- Transaction Status:** Pending
- Payment Status:** Paid
- Deliver to:** PO ID: C003, Myrna Luna, 777 Quimpo Boulevard, SM City Davao, Davao City, Davao del Sur, 8000
- Payment Details**:
 - Payment Method: Bank Transfer
 - Payment Type: Full
 - Amount: ₱ 1,811.8
 - Date: 20-11-2025
 - Proof of Payment: Screenshot 2025-11-20....

6.6.1.2 Generate Receiving Report

The screenshot shows the LiamKai Management Portal's Purchasing section. A modal dialog box titled "Generate Receiving Report" is open. Inside the dialog, there are fields for Supplier Name (Seafresh Co.), Date Received (2025-11-11), Status (Received), Supplied Product (Tuna), Received By (Jhero Hinggo), Qty (kg) (10), and Remarks (empty). At the bottom are "Back" and "Confirm" buttons. In the background, there are two collapsed order details boxes: one for a "Fully Paid" order and another for a "Not Paid" order, both showing an outstanding balance of "Php 1,000.53".

6.6.1.3 Create PO

The screenshot shows the LiamKai Management Portal's Purchasing section. A modal dialog box for creating a Purchase Order (PO #C005 by Myrna Luna) is open, divided into four steps: 1. Select Supplier, 2. Select Products, 3. Payment Details, and 4. Confirm Details. Step 1 shows a search bar and a list of suppliers: Seafresh Co. (Tuna, Active, info) and Aquatics Inc. (Squid, Scallops, Active, info). Step 2 is not yet visible. Step 3 shows payment details for a partially paid order. Step 4 is not yet visible. At the bottom are "Next" and "Cancel" buttons.

LiamKai Management System

Purchasing

1 Select Supplier 2 Select Products 3 Payment Details 4 Confirm Details

Select Products

Tuna

 Tuna Belly Stock: 30 kg Price: ₱ 380/kg	 Tuna Steak (Single) Stock: 40 kg Price: ₱ 380/kg	 Tuna Steak (Multiple) Stock: 140 kg Price: ₱ 380/kg
		

Back **Next**

Purchasing Information

PO ID: C003
Myrna Luna
777 Quimpo Boulevard, SM City Davao, Davao City, Davao del Sur, 8000

Summary

Item	Qty	Price
Tuna Belly	0.567	₱ 380
Tuna Steak (Multiple)	0.898	₱ 380
Salmon Whole Fish	1.362	₱ 800

Subtotal: ₱ 1,234.53

Total: **₱ 1,234.53**

LiamKai Management System

Purchasing

1 Select Supplier 2 Select Products 3 Payment Details 4 Confirm Details

Payment Details

Summary

Item	Qty	Price	Total
Tuna Belly	0.567	₱ 400	₱ 226.8
Tuna Steak (Multiple)	0.898	₱ 400	₱ 359.2
Salmon Whole Fish	1.362	₱ 900	₱ 1,225.8

Subtotal: ₱ 1,000.53

Total: **₱ 1,811.8**

Payment Details

Payment Method: Bank Transfer Payment Type: Full

Amount: ₱ 1,811.8 Date: 20-11-2025

Back **Next**

LiamKai Management Portal

Are these details correct?

Summary

Item	Qty	Price	Total
Tuna Belly	0.567	₱ 400	₱ 226.8
Tuna Steak (Multiple)	0.898	₱ 400	₱ 359.2
Salmon Whole Fish	1.362	₱ 900	₱ 1,225.8

Subtotal: ₱ 1,000.53

Total: ₱ 1,811.8

Deliver to:

PO ID: C003
Myrna Luna
777 Quimpo Boulevard, SM City Davao, Davao City, Davao del Sur, 8000

Pick up Schedule

20-11-2025 10:45 PM

Payment Details

Payment Method	Payment Type
Bank Transfer	Full
Amount	Date
₱ 1,811.8	20-11-2025

Back **Confirm**

LiamKai Management Portal

Purchasing

+ Create PO

All Orders

Order #C004 Myrna Luna Status: Fully Paid Order Details

Amount Paid: ₱ 1,000.53 Outstanding Balance: ₱ 811.45

Order Completed

Order #C005 Myrna Luna Status: Partially Paid Order Details

Amount Paid: ₱ 1,000.53 Outstanding Balance: ₱ 811.45

Customer Orders Logistics Inventory Purchasing Suppliers Profile Payment Sales Report Employee Myrna Luna Owner Log out

6.6.2 Suppliers Profile

The screenshot shows the LiamKai Management Portal's Suppliers Profile section. On the left, a dark sidebar menu includes options like Customer Orders, Logistics, Inventory, Purchasing, Suppliers Profile (which is selected and highlighted in orange), Payment, Sales Report, Employee, and Log out. A user profile for Myrna Luna, Owner, is also shown. The main content area has a title 'Suppliers Profile' and a search bar with placeholder 'Search Supplier'. Below the search bar are two supplier cards: 'SeaFresh Co.' and 'Aquatics Inc.'. Both cards feature a circular logo with a fish, the supplier name, a status indicator (Active), and contact details including email, phone number, and address.

6.6.2.1 Add Supplier

The screenshot shows the LiamKai Management Portal's 'Add Details' dialog box for adding a new supplier. The dialog is centered over a background view of the Purchasing module. It contains fields for Supplier Name (Seafresh Co.), Contact Person Name (Melanie Martinez), Phone Number (09xxxxxxxx), Supplied Product (Tuna), Email Address (seafco@gmail.com), and Address (43 Sobrebaray St Poblacion District Davao City 8000). At the bottom are 'Back' and 'Confirm' buttons. To the right of the dialog, there are buttons for '+ Create PO', 'Filter', and 'Status'.

6.6.3 Payment

The screenshot shows the LiamKai Management Portal's Payment section. On the left, a sidebar menu includes options like Customer Orders, Logistics, Inventory, Purchasing, Suppliers Profile, and Payment (which is selected). The main area is titled "Payment" and contains a sub-section titled "Orders". A navigation bar at the top of the orders section has tabs for "All Orders" (selected), "Incomplete", and "Complete", along with a search bar and a "Filter" button. Below this is a table titled "All Orders" with columns for Order No., Supplier Name, Supplied Product, Date Ordered, Expected Arrival Date, Outstanding Balance, Order Status, and Action. Two rows of data are shown:

Order No.	Supplier Name	Supplied Product	Date Ordered	Expected Arrival Date	Outstanding Balance	Order Status	Action
101111	SeaFresh Inc.	Tuna	11-30-2025	12-01-2025	P 1,811.8	Pending	Pay
101112	SodaPop Co.	Scallops	11-28-2025	11-29-2025	P 0	Paid	View

6.6.3.1 Action (Pay)

The screenshot shows the LiamKai Management Portal's "Add Payment" screen. The sidebar menu on the left is identical to the previous screenshot. The main area is titled "Payment" and contains a sub-section titled "Add Payment". The "Add Payment" form includes fields for "PO no #C003", "Status: Pending", "Myrna Luna | 09xxxxxxxx", and "Bank Transfer | Order Date: 11-30-2025 | ETA: 12-01-2025". A "Summary" table provides details of the order items:

Item	Qty	Price	Total
Tuna Belly	0.567	P 400	P 226.8
Tuna Steak (Multiple)	0.898	P 400	P 359.2
Salmon Whole Fish	1.362	P 600	P 1,089.6
Subtotal			P 1,811.8
Total:			P 1,811.8

Below the summary, there are fields for "Payments:" and "Outstanding Balance: P 1811.8". To the right, a "Payment" form is displayed with fields for "Amount" (500), "Date", "Time", "Reference No.", "From", "To", "Description", and "Proof of Payment" (with a placeholder "Upload Photo here"). At the bottom right is a large orange "Pay" button.

6.6.3.2 Action (View)

Delivery Details:

PO no. C003
Myrna Luna 09xxxxxxxx
 777 Quimpo Boulevard, SM City Davao, Davao City, Davao del Sur, 8000
Paid

Date: 20-11-2025 Time: 10:45 PM Description:

Payment Details:

Payment Method: Bank Transfer Due Date: November 20, 2025
 Payment Type: Full Payments made: 1/1

Summary			
Item	Qty	Price	Total
Tuna Belly	0.567	₱ 400	₱ 226.8
Tuna Steak (Multiple)	0.898	₱ 400	₱ 359.2
Salmon Whole Fish	1.362	₱ 900	₱ 1,225.8
Subtotal			₱ 1,811.8
Total:			₱ 1,811.8

6.6.4 Sales Report

Sales Report

Total Sales: 22 ₱16,822

Total Purchases: ₱11,514

Order Types

Retail: 80% Wholesale: 20%

Overview

Order No.	Customer Name	Order Type	Product	Base Price	Total Paid	Outstanding Balance	Status
0001	Jhero Hinggo	Retail	Tuna Steak	₱500	₱350	₱150	Partially Paid
0002	AquaFin Co.	Wholesale	Scallops	₱400	₱400	₱0	Paid

6.6.4.1 Generate Report

The screenshot shows the LiamKai Management Portal interface. On the left is a dark sidebar with navigation links: Customer Orders, Logistics, Inventory, Purchasing, Suppliers Profile, Payment, Sales Report (which is highlighted), and Employee. A user profile for Myrna Luna, Owner, is shown. On the right, there's a main dashboard area with a "Sales Report" title. It features a summary card with "Total Sales 22 ₱16,820", a "Overview" section with two rows of order details (Order No., Customer Name), and a "Order Types" section showing "Retail 80%" and "Wholesale 20%". Overlaid on the dashboard is a modal window titled "Generate Report". Inside the modal, there are sections for "Filter by Date Range" (with "Last 30 days" and "Last Year" buttons), "Customize Date Range" (with "Start Date" and "End Date" fields), and "Filter by Order Type" (with "Wholesale", "Retail", and "All" buttons). At the bottom of the modal is an orange "Generate Report" button.

6.6.4.1.1 Generated Report

The screenshot shows the LiamKai Management Portal interface. The sidebar is identical to the previous screenshot. The main area is titled "Purchasing" and displays a "November Report". It includes a summary card with "SALES ₱25,450" and "PURCHASE ₱10,400", a line chart showing monthly sales and purchase trends from January to December, and a table titled "Report" showing five rows of transaction details. The table columns are: Report, Customer, Payment, Date, Transaction, Amount, Payment Method, and Status. The status column uses colored buttons: green for "PAID" and yellow for "PENDING".

Report	Customer	Payment	Date	Transaction	Amount	Payment	Status
R001	C001	1	11/14/25	Sale	₱10,234	Bank Transfer	PAID
R002	C002	2	11/14/25	Refund	₱11,234	Bank Transfer	PENDING
R003	C003	3	11/10/25	Sale	₱12,234	Bank Transfer	PAID
R004	C004	4	11/04/25	Sale	₱9,234	Bank Transfer	PAID
R005	C005	5	11/04/25	Sale	₱1,234	Bank Transfer	PAID

6.7. Inventory Module

6.7.1 Current Stock

The screenshot shows the LiamKai Management Portal interface. On the left is a dark sidebar with navigation links: Customer Orders, Logistics, Inventory (which is selected and highlighted in orange), Stock Movement, Purchasing, and Employee. Below these is a user profile for 'Myrna Luna, Owner' and a 'Log out' button. The main content area has a title 'Inventory' and a sub-section 'Current Stock'. It features a search bar with 'Search Supplier' and a 'Filter' button. A large table lists products with columns for Product, Available Stock, Reorder Point (kg), Last Restocked, and Status. The table contains the following data:

Product	Available Stock	Reorder Point (kg)	Last Restocked	Status
Tuna Belly	30kg	10kg	11/05/25	ACTIVE
Tuna Steak (Single)	40kg	10kg	11/05/25	ACTIVE
Tuna Steak (Multiple)	140kg	10kg	11/15/25	ACTIVE
Tuna Tail (Buntot)	5kg	5kg	11/05/25	ACTIVE
Tuna Jaw (Panga)	30kg	10kg	11/05/25	ACTIVE
Pompano	140kg	10kg	11/15/25	ACTIVE
Salmon	30kg	10kg	11/05/25	ACTIVE
Scallops	0kg	10kg	10/01/25	INACTIVE
Shrimps	0kg	10kg	10/01/25	INACTIVE

At the bottom of the table, there are page navigation numbers: 1, 2, 3, 4, 5.

6.7.2 Stock Movement

The screenshot shows the LiamKai Management Portal interface. On the left is a sidebar with icons for Customer Orders, Logistics, Inventory (which is selected), Current Stock, Stock Movement (selected), Purchasing, and Employee. Below this is a user profile for Myrna Luna, Owner, and a Log out button. The main area is titled "Inventory" and "Stock Movement". It features a search bar for "Supplier" and a "Filter" button. A table lists stock movements:

Date	Type	Product	Qty (kg)	Source	SourceID	Status
2025-11-11	Out	Tuna Steak	5	Order	ORD001	Completed
2025-11-11	In	Tuna Steak	5	Order	ORD001	Completed

Pagination at the bottom shows pages 1 through 5, with page 2 currently selected.

6.9. Employee Management

The screenshot shows the LiamKai Management Portal's Employee section. On the left, a sidebar menu includes Customer Orders, Logistics, Inventory, Purchasing, and Employee (which is selected). It also displays the user information for Myrna Luna (Owner) and a Log out button. The main content area has a search bar at the top labeled "Search a user". Below it, the title "10 Employee" is displayed in orange. A "Filter" button and an orange "+ Add Employee" button are located in the top right. The main area contains six employee profiles arranged in two rows of three. Each profile card includes a circular profile picture, the employee's name, their department (Procurement), their hire date (7/27/13), and their email address and phone number.

Name	Department	Hired Date	Email	Phone
Jhero Hinggo	Procurement	7/27/13	jmhinggo@addu.edu.ph	09xxxxxxxx
Kiona Luna	Procurement	7/27/13	kmluna@addu.edu.ph	09xxxxxxxx
Ara Tangcay	Procurement	7/27/13	aaraangeliqueptangcay@addu.edu.ph	09xxxxxxxx
Camille Prats	Procurement	7/27/13	camilleprats@addu.edu.ph	
Kelvin Fulgencio	Procurement	7/27/13	kelvinfulgencio@addu.edu.ph	
Sophie Prime	Procurement	7/27/13	sophieprime@addu.edu.ph	