



# BarqiBazar

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## INTRODUCTION

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# What is BarqiBazar?

Barqi Bazar is a smart retail platform that connects offline POS systems with an online marketplace and delivery system.

It helps local stores sell products both in-store and online while keeping full control over products, orders, and delivery.



# Literature Review

Existing systems mainly fall into three categories: **traditional POS systems, online marketplaces, and delivery platforms**. Traditional POS systems focus on offline sales but lack online integration. Online marketplaces allow easy product listing but provide little control over product quality. Delivery platforms focus on logistics but are not tightly integrated with store operations. Barqi Bazar combines the strengths of these systems while addressing their limitations by offering controlled product approval, integrated POS operations, and coordinated delivery management.

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## PROBLEM STATEMENT

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- Traditional POS systems work offline but are not connected to online sales.
- Online marketplaces allow anyone to list products without proper approval.
- There is no proper coordination between stores, delivery riders, and cities.
- This creates data mismatch, poor control, and operational issues.



## PROBLEM STATEMENT

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## Problem Impact

- Stores cannot easily sell online
  - Admins cannot control product quality
  - Orders are hard to manage across multiple stores
  - Delivery assignment is manual and inefficient
- Overall, existing systems do not match real business workflows.

## SOLUTION

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# Proposed Solution

An offline-capable POS  
for stores

A central platform for  
product approval

A controlled contract-  
based product system

Smart order processing  
with rider bidding

## OVERVIEW

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# System Overview

- Store Admin (POS + product proposals)
- Franchise Admin (approval and control)
- Customer (places orders)
- Rider (delivers orders)

Each actor has clearly defined responsibilities.



## METHODOLOGY

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# Methodology

The project was developed using a structured and step-by-step approach. **First**, system requirements were analyzed based on real retail workflows. **Next**, system design was created using use case, sequence, and architecture diagrams. After design validation, core system modules such as **POS operations**, **product proposals**, and **order processing** were implemented. Finally, the system was tested using real workflow scenarios to ensure correctness and reliability.

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# Overall System Flow

The flow of the system is:

- Store Admin manages products and sales through POS
- Products are proposed and approved before going live
- Customers place online orders
- Orders are validated, routed, and delivered

This ensures control, accuracy, and scalability.

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## POS Login Flow

Store Admin logs into the POS system using credentials.  
The system verifies the login and starts a secure session.  
Only authorized users can access POS features.

The image shows a user login interface. At the top is a placeholder icon of a person. Below it is the title "User Login" and a subtitle "Select your role and login". A dropdown menu labeled "Role" is open, showing the option "Admin". Below the dropdown is a text input field labeled "Email" with the placeholder "Email address". Below that is a password input field labeled "Password" with the placeholder "Enter Password" and a visibility toggle icon. At the bottom is a large blue "Sign In" button.

## POS Product Data Management

Store Admin can:

- Add new products
- Update prices and quantities
- Save in the system

The screenshot shows the POS software interface with a navigation bar at the top. The navigation bar includes a 'WHOLESALE' logo, 'Home', 'Inventory Management', 'Customer Management', 'Staff Management', 'Billing & Finance', 'Reports', 'History', and four small icons for settings, refresh, and export. Below the navigation bar is a modal window titled 'Add Product'. The modal has fields for 'Product Name' (with placeholder 'Enter product name'), 'Category' (with placeholder 'Select a category'), 'Company' (with placeholder 'Select a company'), and a blue 'Create Product' button.

## POS Sale Process

When a sale is made:

- Products are scanned
- Total is calculated
- Sale is recorded
- Stock is updated

The screenshot shows a POS software interface with the following components:

- Header:** WHOLESALE logo, Home, Inventory Management, Customer Management, Staff Management, Billing & Finance, Reports, History, and four action buttons (blue, green, orange, red).
- Left Panel:** A search bar labeled "Search" and a list of products with their stock levels and expiration dates:
  - pizza: STOCK 5, EXPIRES 19/02/26, ALERT AT 5
  - white cheese: STOCK 3, EXPIRES 02/02/26, ALERT AT 2
  - white cheese: STOCK 10, EXPIRES 02/02/26, ALERT AT 5
  - white cheese: STOCK 2, EXPIRES 22/10/26, ALERT AT 35
  - Garlic Paste: STOCK 14, EXPIRES 08/10/26, ALERT AT 5
  - pizza: STOCK 18, EXPIRES 06/12/25, ALERT AT 20
  - Mango Pickle: STOCK 743, EXPIRES 30/11/25, ALERT AT 5
  - Garlic Paste: STOCK 32, EXPIRES 10/11/26, ALERT AT 5
  - Tomato Ketchup (Regular)
  - Mango Pickle
  - pizza
- Right Panel:** A "Walk In" section with a "Scan Barcode" input field and a table of items with quantities and prices:

ITEM	QTY	RP	TP	X
white cheese	1	Rs 300.00	Rs 250.00	X
Garlic Paste	1	Rs 280.00	Rs 260.00	X
Mango Pickle	1	Rs 330.00	Rs 320.00	X
pizza	1	Rs 200.00	Rs 150.00	X
- Bottom Right:** The number 12.

# Online Product Sync

- Updated product data from POS is sent to the platform.
- If sync is successful, products are updated online.
- If it fails, data remains safe and can be retried.



## CONTRACT

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# Contract / Product Proposal Flow

Store Admin selects a product and sends a proposal.

Franchise Admin reviews the proposal.

If approved, the product becomes live.

If rejected, it is sent back with status update.

Title	Products	Submitted	Status	Actions
this is contract	1	1/20/2026	SUBMITTED	⌚
this is totally new	3	1/20/2026	SUBMITTED	⌚
this is totally new	1	1/17/2026	ACTIVE	⌚
this is totally new	1	1/17/2026	REJECTED	⌚
this is contract	1	1/17/2026	ACTIVE	⌚
this is new contract	1	1/16/2026	ACTIVE	⌚

## CONTRACT

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# Franchise & City Management

Franchise Admin manages:

- Franchises
- Cities
- Store operations

The screenshot shows the Barqi C&F Portal dashboard. On the left is a dark sidebar with the portal logo and navigation links: Dashboard (highlighted in orange), Cities, Franchises, Franchise Admins, and Riders. The main area is the Dashboard, which includes a welcome message "Welcome back, admin". It displays key metrics: Total Cities (5, All cities), Total Franchises (3, 0 active), and Franchise Admins (1, All admins). Below these are sections for Recent Cities (Mirpur, MPR, ACTIVE; Bagh, BGH, ACTIVE; Rawlakot, RKT, ACTIVE; Kotli, KTI, ACTIVE; Karachi, KHI, ACTIVE) and Recent Franchises (Ifraheem New Store, IFS; G Saran G Franchise, KTI-CENTRAL-01; Barqi Karachi Central, KHI-CENTRAL-01). At the bottom left of the main area, it says "Logged in as admin@gmail.com".

## CONTRACT

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# Riders Management

- Riders are registered and assigned to cities.
- They can view delivery jobs and place bids.
- The system selects the most suitable rider.

The screenshot shows a modal window titled "Add Rider" over a dark background. The modal contains the following fields:

- Franchise: Ifraheem New Store
- City: Kotli
- Full Name: saran zafar
- Phone: +923119777995
- Vehicle Type: Bike
- Documents (Optional): A file named "CNIC (Screenshot from 2026-01-20 18-42-23.png)" is uploaded.
- File Input: A placeholder "CNIC" and a "Choose File" button.

At the bottom of the modal are two buttons: "Cancel" and a green "Create Rider" button.

# Order Processing Flow

- Customer places an order online.
- The system validates stock.
- Riders place bids for delivery.
- Order is routed to the correct store and rider.



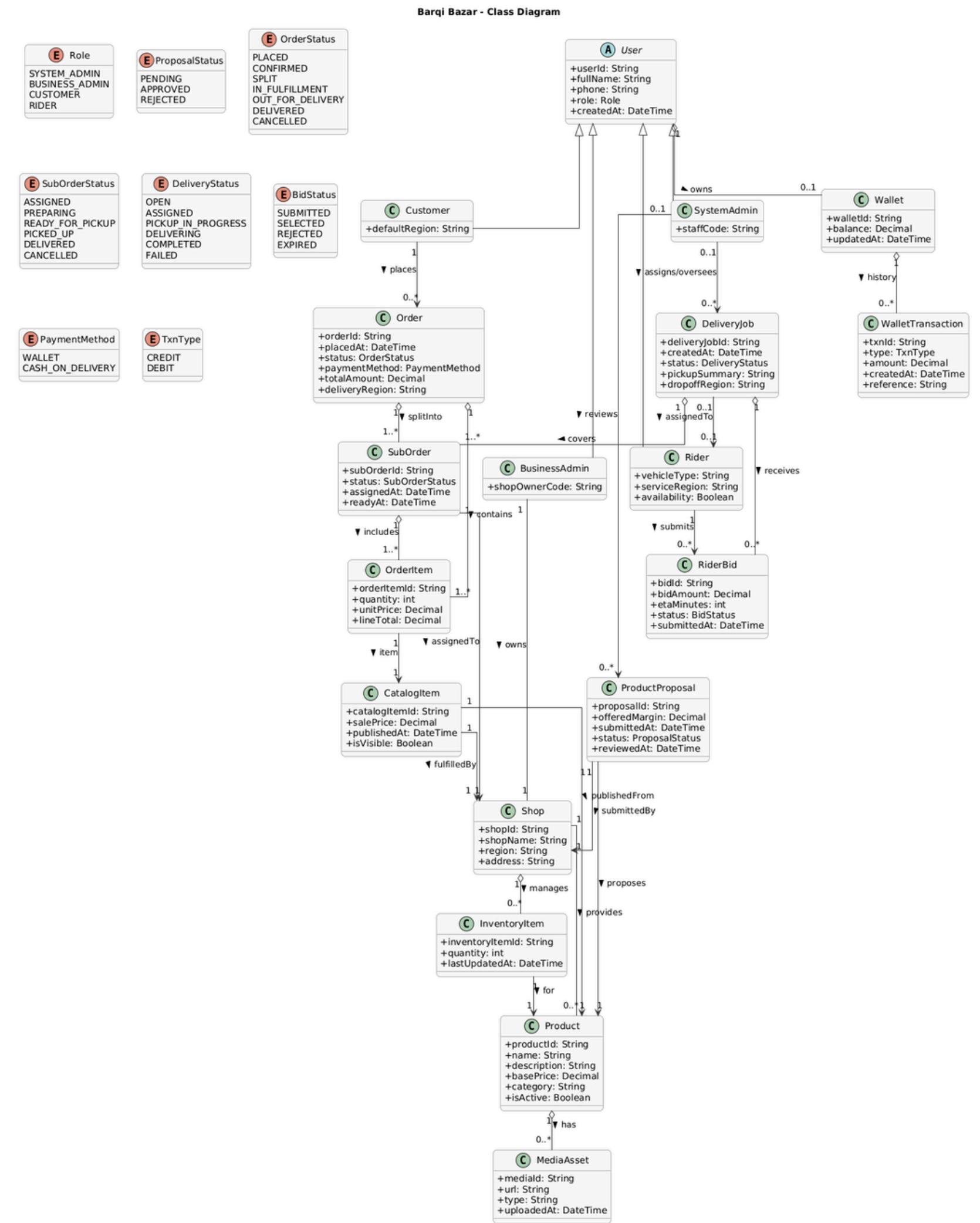
Efficient fulfillment and controlled delivery

# USECASE

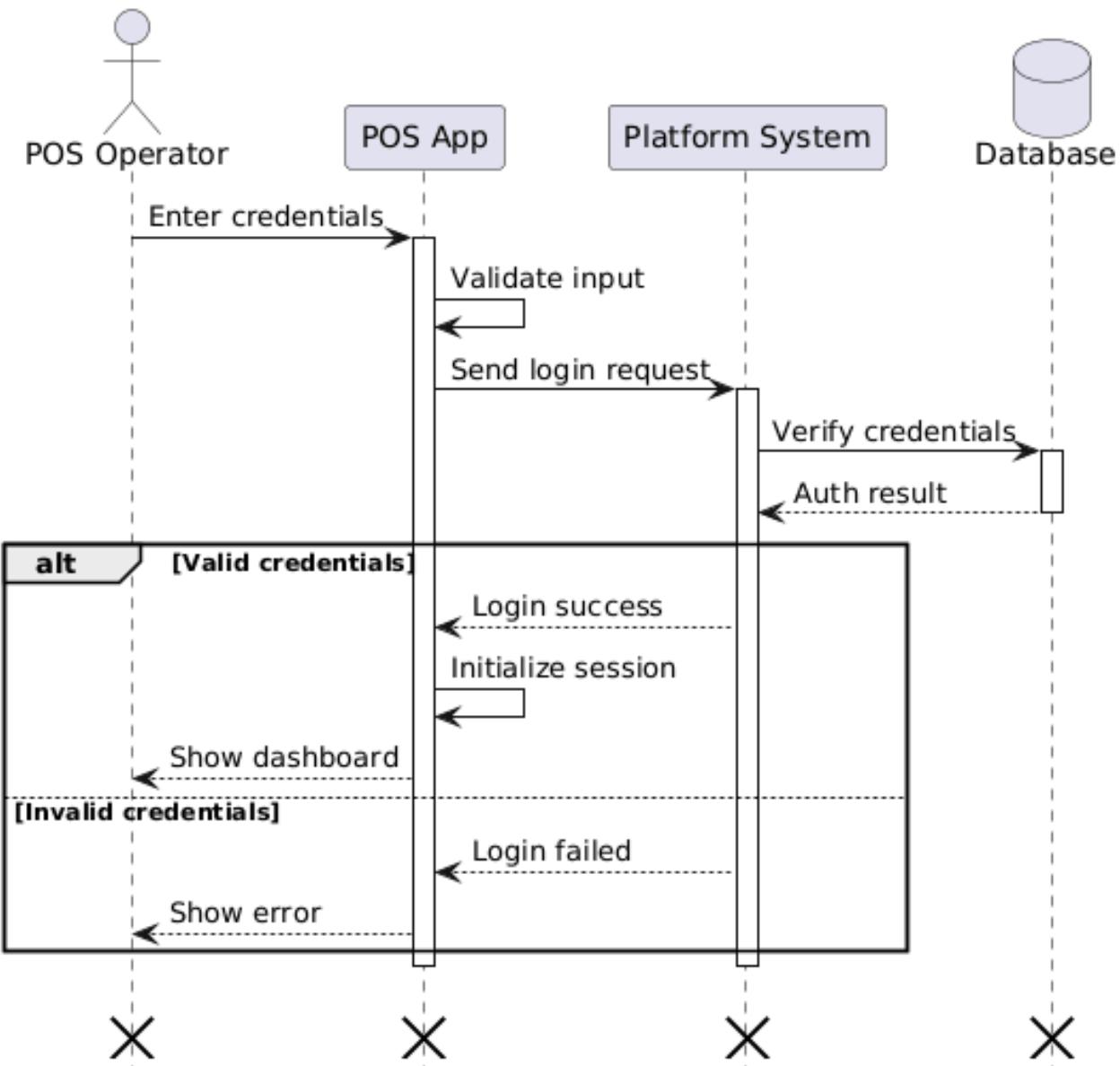
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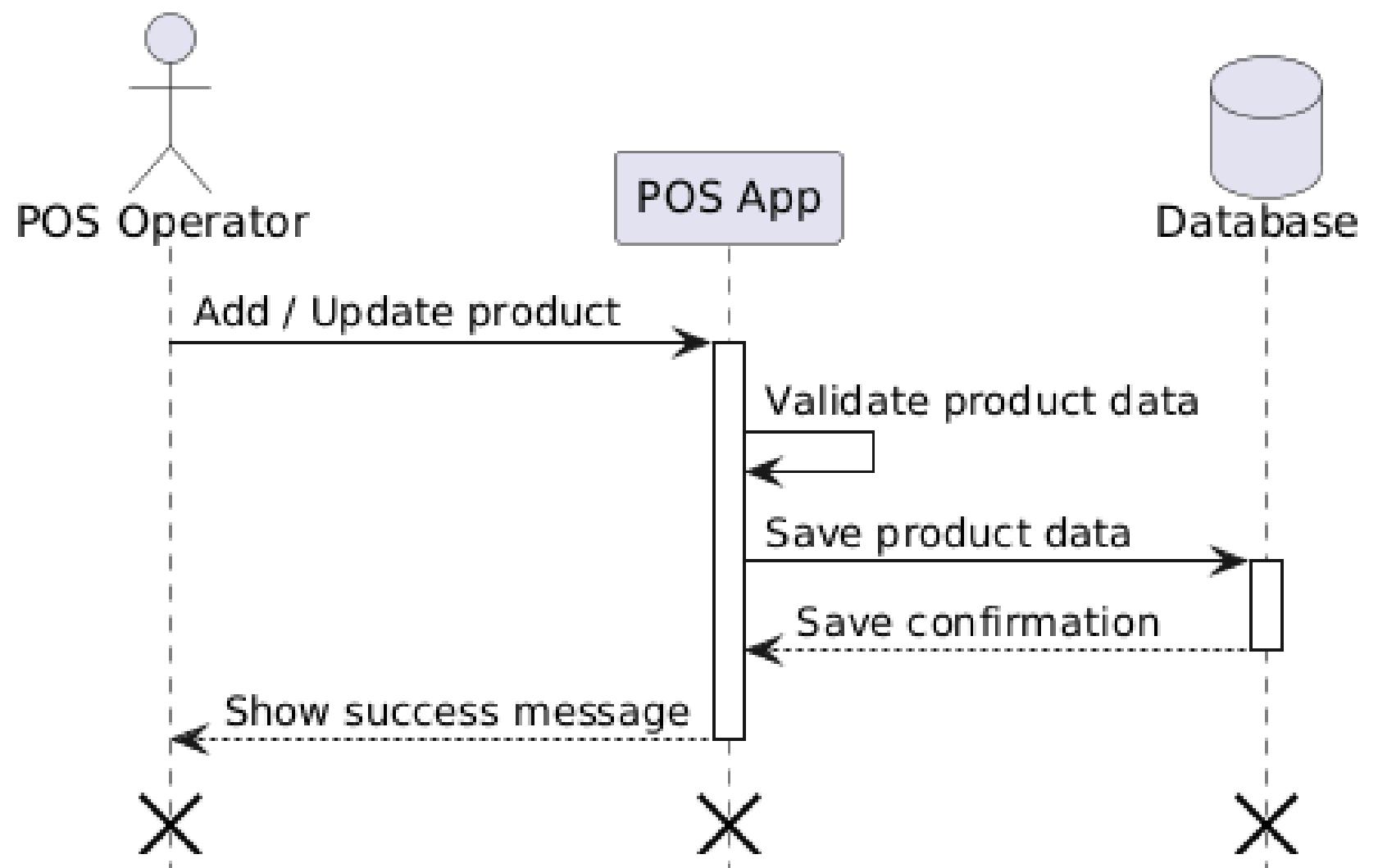
# CLASS DIAGRAM



# SEQUANCE DIAGRAM

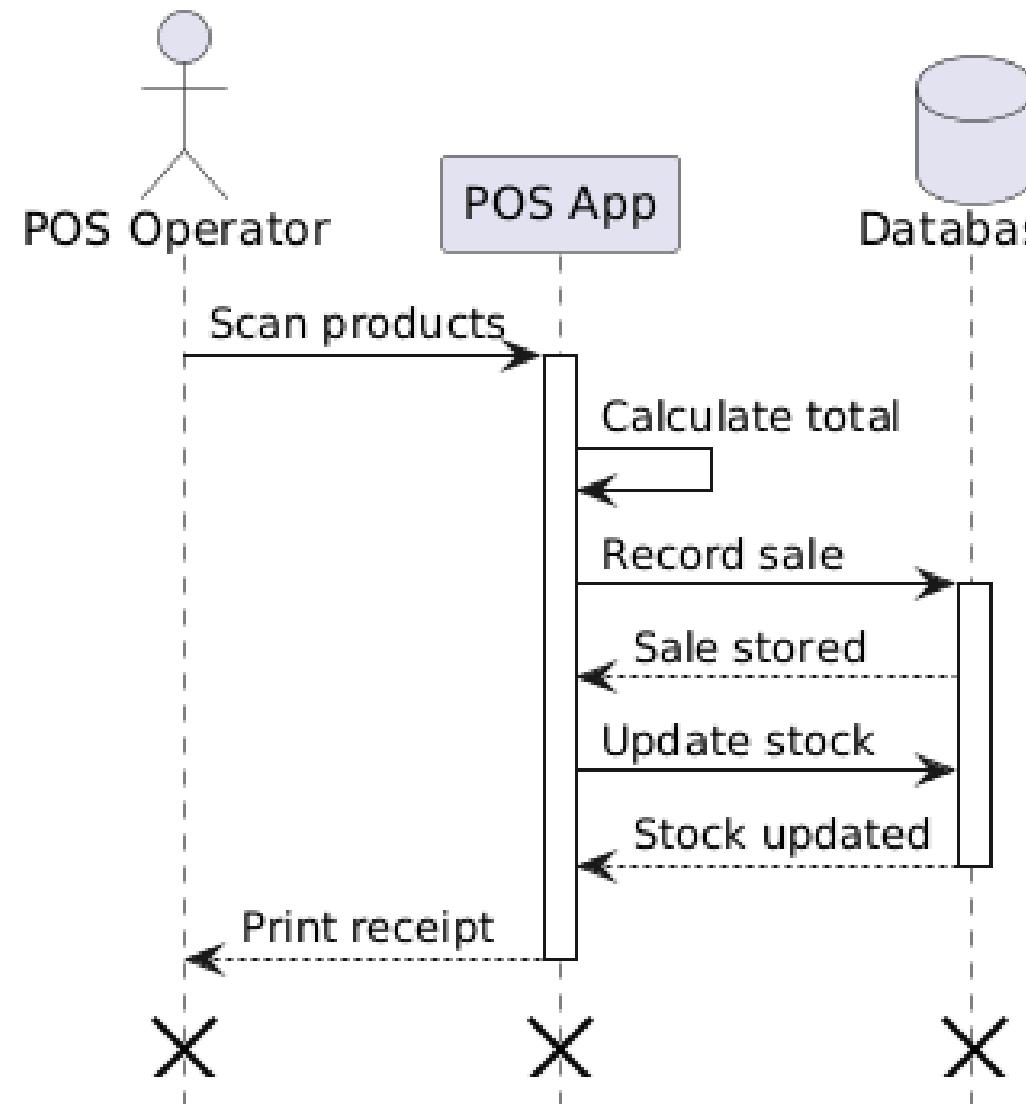


Login

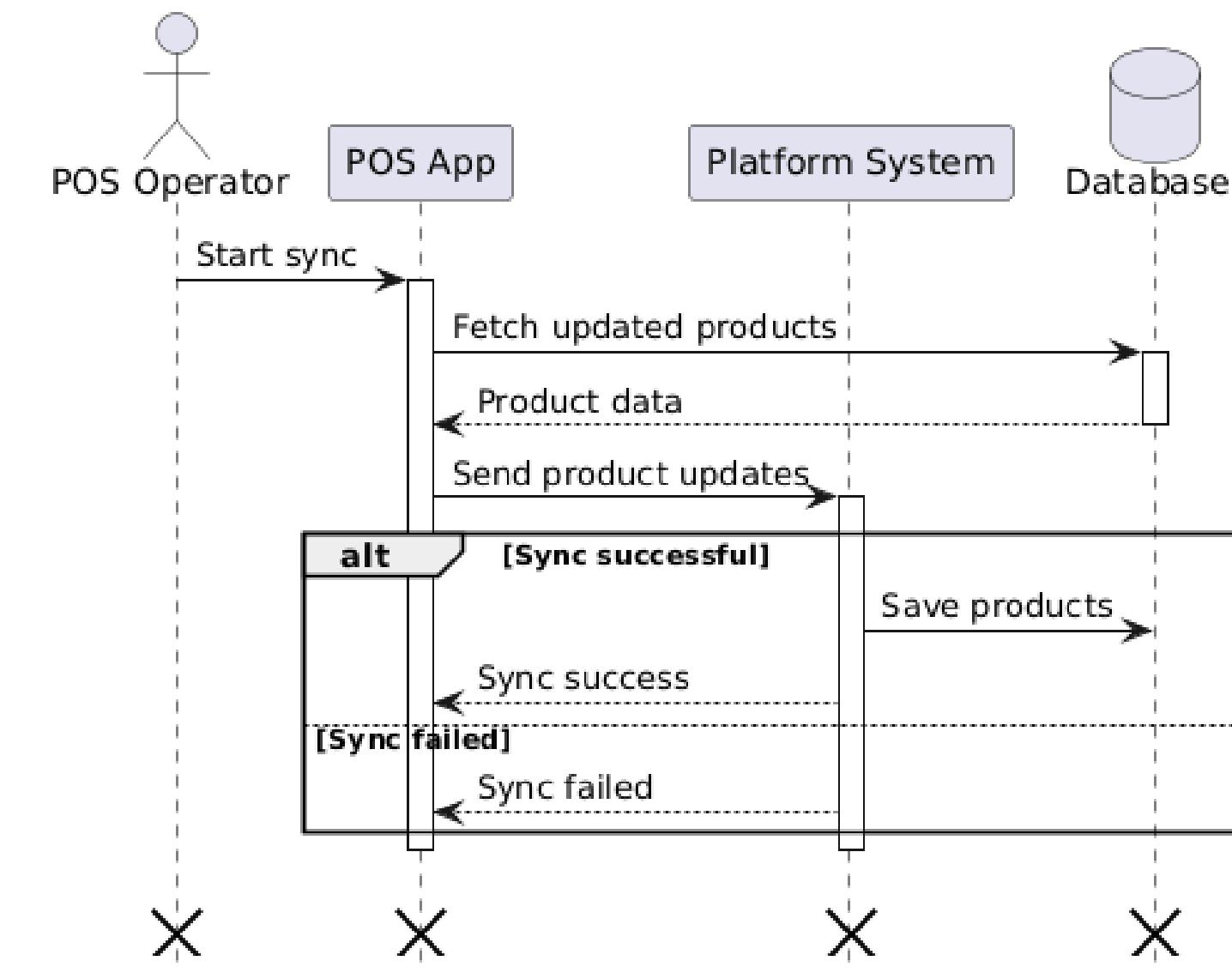


POS -Product

# SEQUANCE DIAGRAM



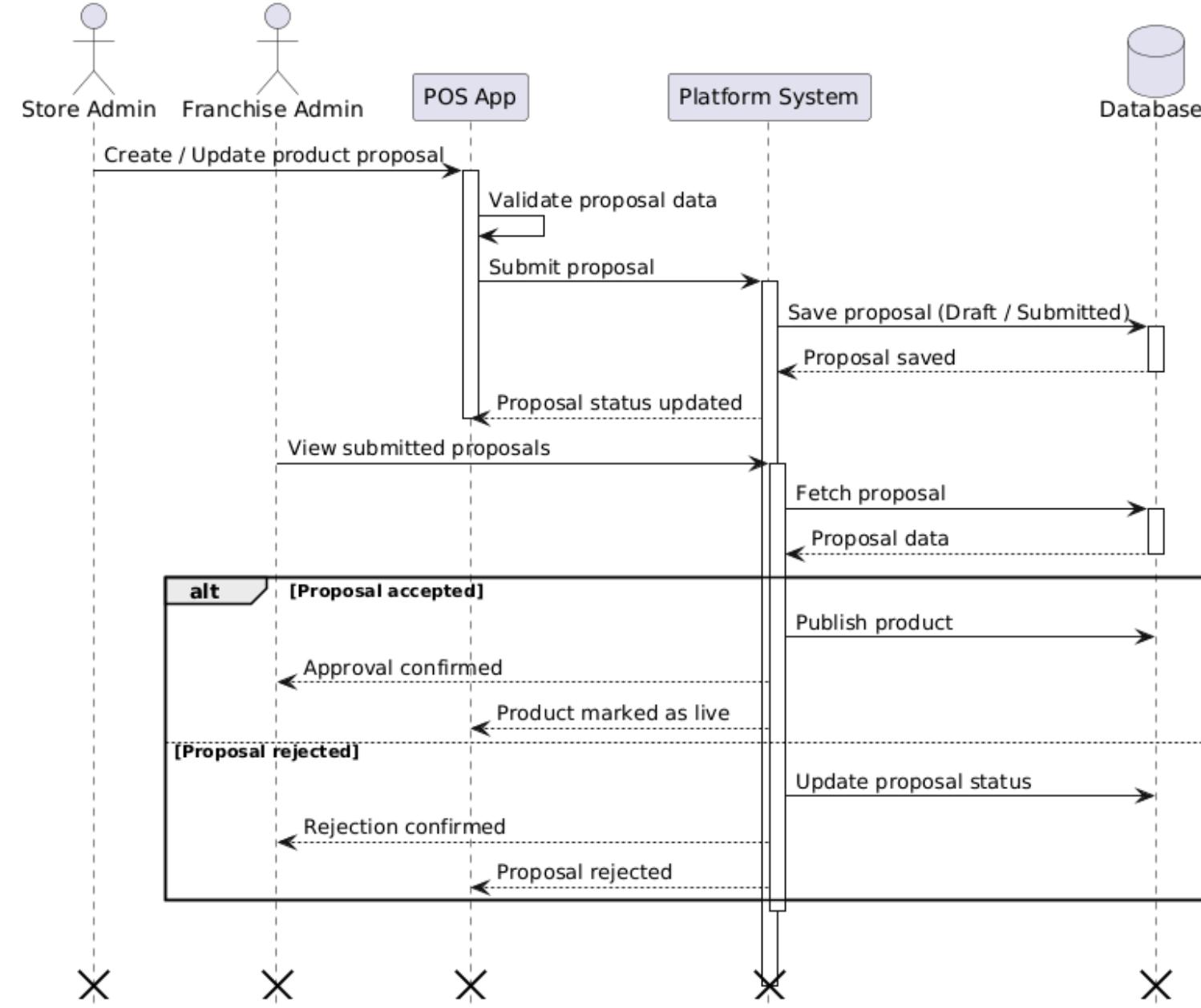
POS Transaction



Products Sync

# SEQUANCE DIAGRAM

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Contract Flow



**BarqiBazar connects offline stores with online ordering and delivery in a controlled way. It ensures better product quality, smooth order processing, and efficient delivery coordination.**

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# The End

Thank You for Listening

