

pharmacy system

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pharmacy system



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problem & solution

Problem

Unavailability of medicines delays treatment and frustrates patients

Solution

Connect users with pharmacies to order medicines easily

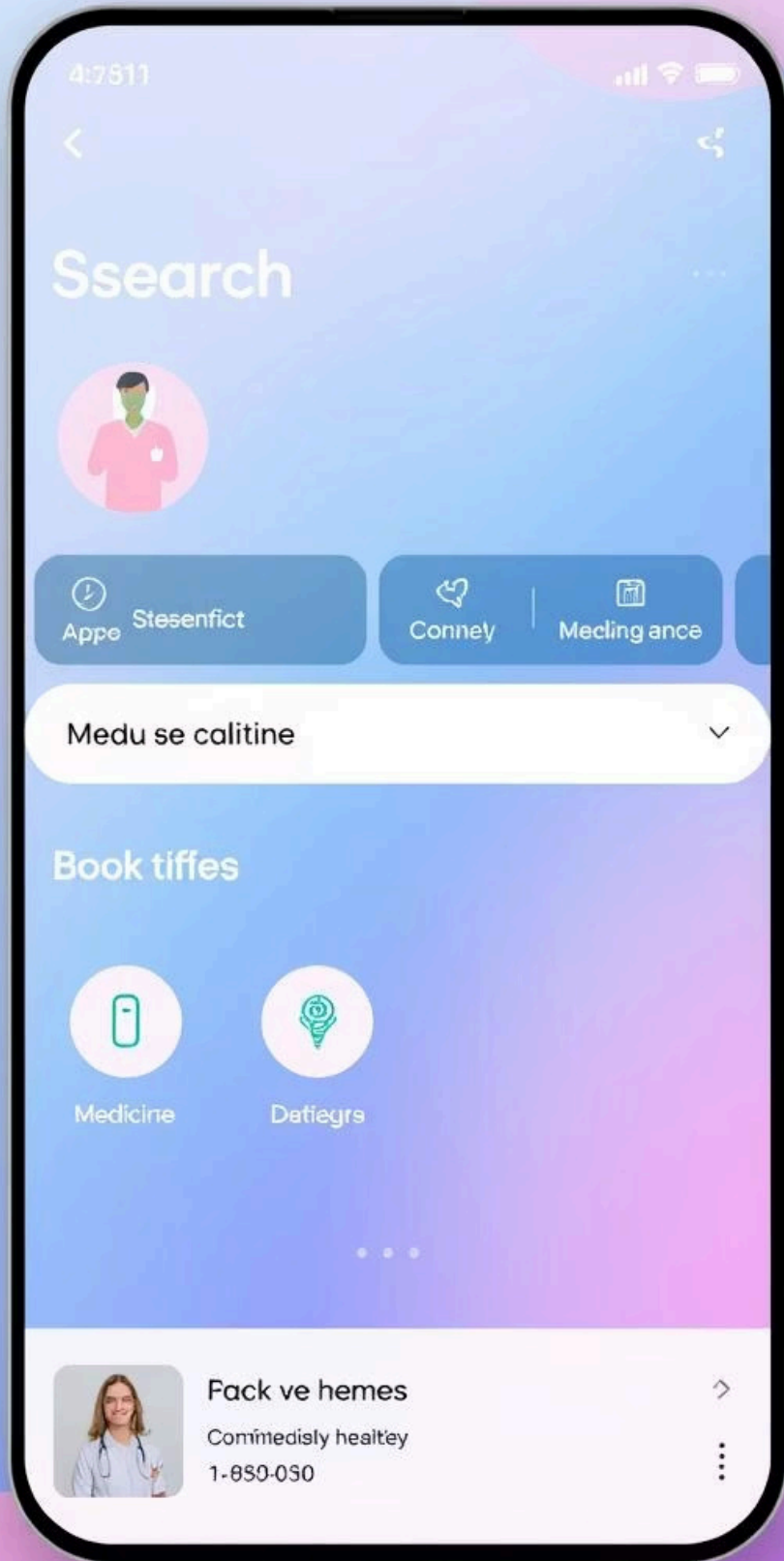
Buy online or visit pharmacy



goal

Make it easier to find medication for clients, chronically ill, elderly

functional requirements - client



Account	Create account, enter email, password, age, gender, phone, address
Profile management	Modify and add data
Search	Product search capability
Booking & buying	Book and buy medicine
Paying	Immediate payment via Insta pay or Vodafone Cash or cash
Follow pharmacies	Access pharmacies and medication notifications
Feedback	Report positive or negative pharmacy dealings
communication	the client can contact the pharmacies

functional requirements - pharmacy & admin

Pharmacy

Account	Create and manage data
product	Add drug classes, prices, manufacturer, prescription, availability
Payment	Online service options and payment methods
Delivery	Delivery service availability
Communication	Phone and email for inquiries

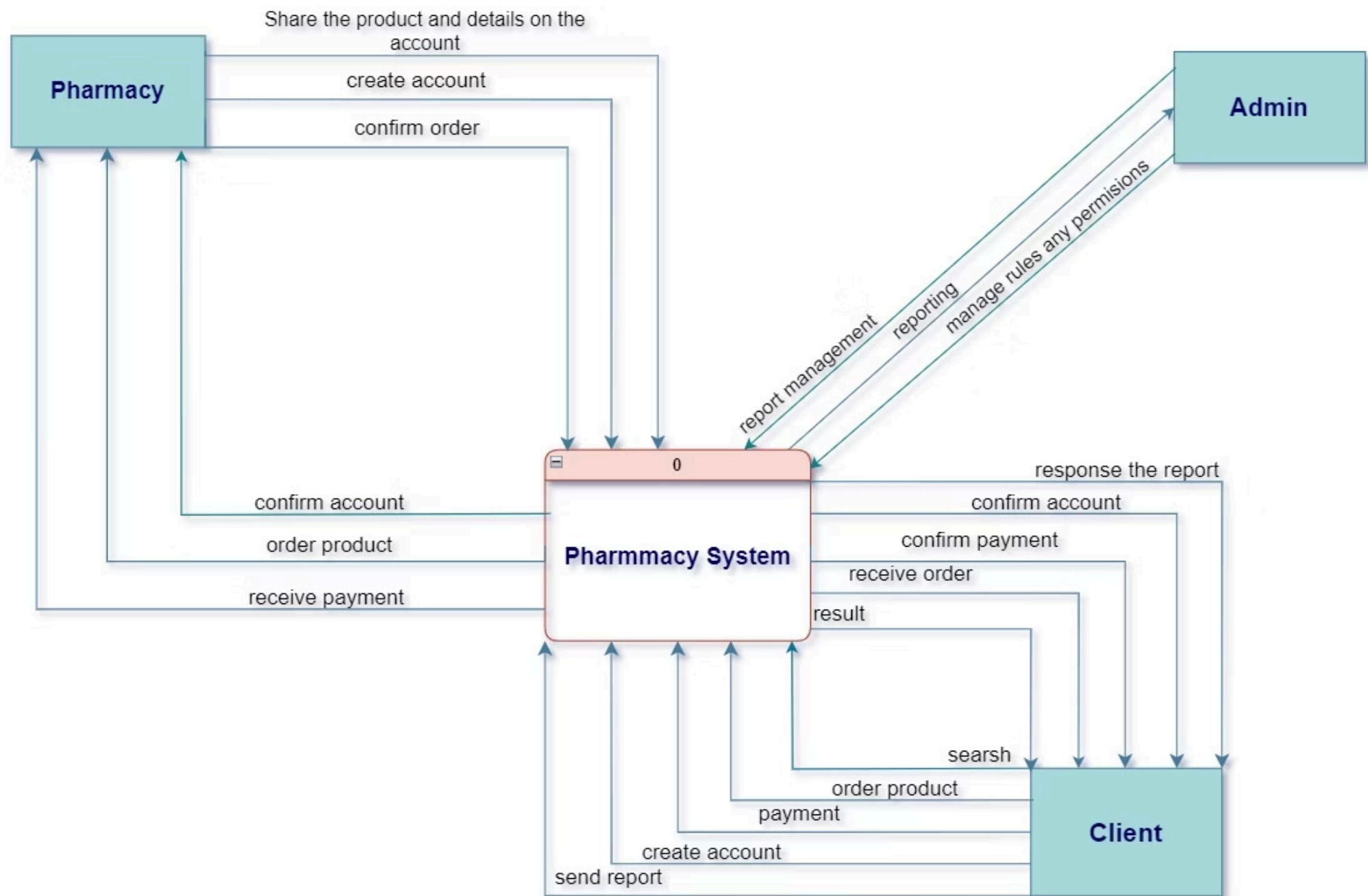
Admin

Surveillance	Check drug classes on app
System control	Establish program laws and communication
Manage reports	Receive and handle reports

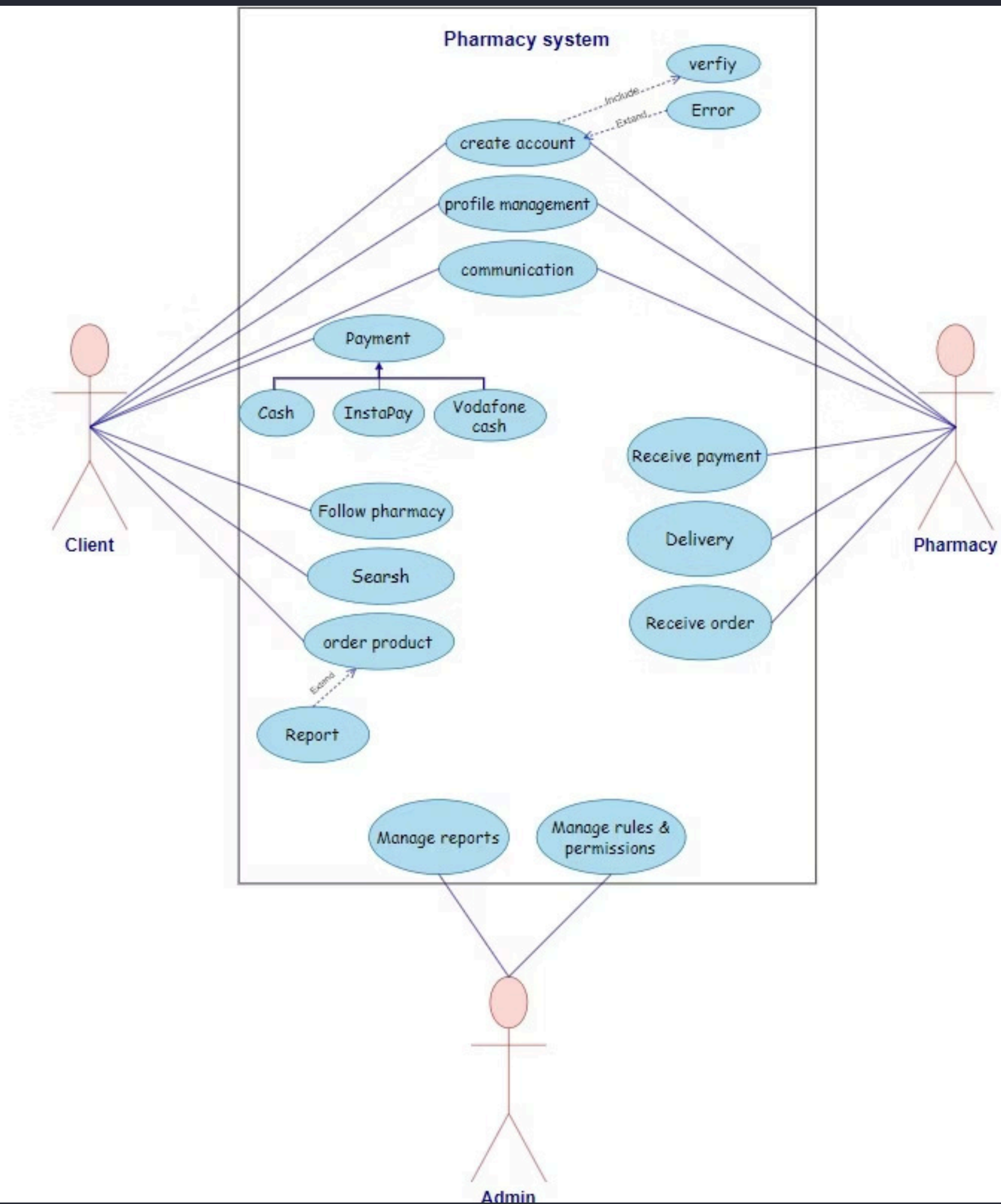
non functional requirements

- Audio search for drugs is easy
- Fast search and reservation
- High security for user data
- Automatic pronunciation of drug names
- Search by name or active ingredient
- Notifications when reserved medicine available
- Nearest pharmacies shown first
- Works on iOS and Android
- Supports multiple languages

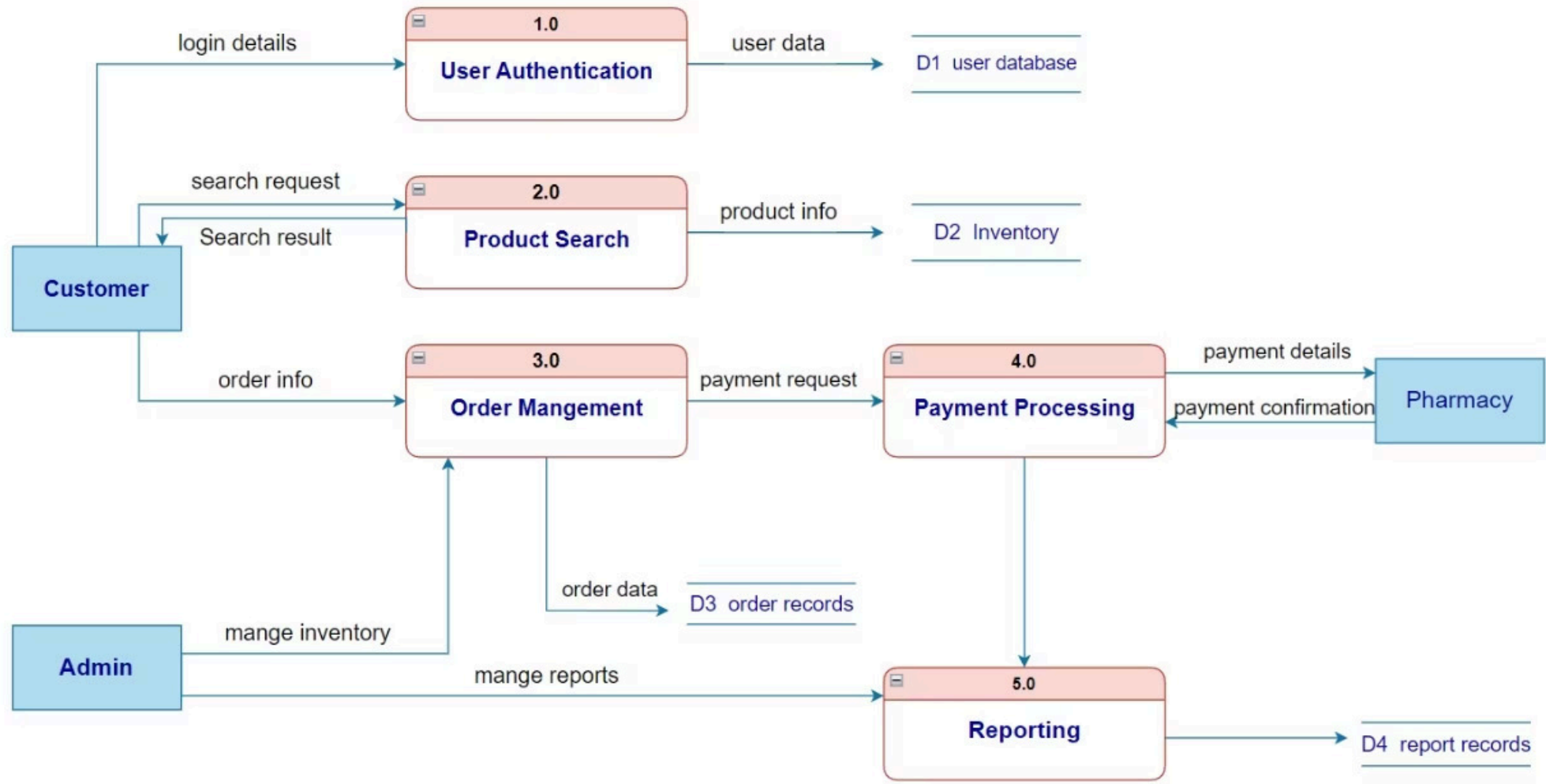
Context Diagram



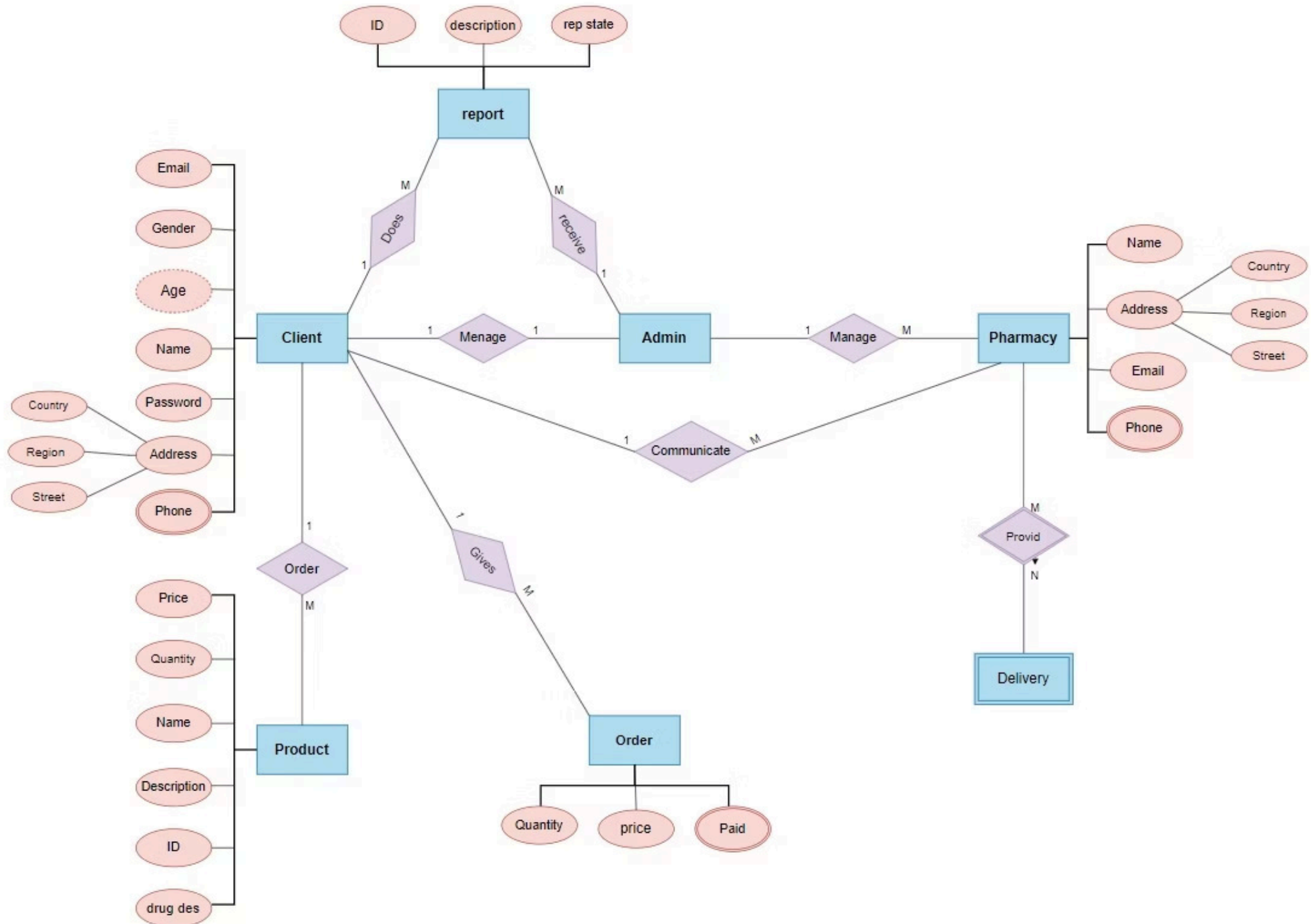
USe Case diagram



DFD LEVEL 0



ERD



Competitive advantage

Availability	Multiple pharmacies in one place
Intelligent search	Products shown from closest to farthest pharmacies
Communication	Easy contact and advice with pharmacies
Alternative	Alternative drugs shown if unavailable
Real-time Inventory	Automatic updates from pharmacies
Notifications	Alerts when medicine becomes available
Discounts	Offers and seasonal coupons from pharmacies



pharmacy system

Value chain, CRM & SCM

Value chain

primary activities	
Inbound logistics	Enter medication names, ingredients, info
Operations	Search results via audio or text
Marketing & sales	Products with discounts and offers
After-sales	Pharmacy monitoring, delivery, payment
support activities	
Infrastructure	Inventory, suppliers, customer data tracking
Technology development	Program updates, notifications, stock updates
Procurement	Continuous product supply from pharmacies

CRM

Customer database	Store data, history, performance
Sales tracking	Track purchases, regular products, pharmacies
Marketing automation	Follow-up emails, discounts, tips
Customer support	Search, communicate, consult
Feedback collection	Customer reports and evaluations

SCM

Order management	Monitor product availability
Inventory management	Manage product quantity and supply

Database selection

New SQL

- Combines features from relational database and features from NoSQL database
- It offers high performance and scalability like NoSQL, which is important because the project is nationwide.
- That supports a huge number of users without collapsing performance
- Provides high security and supports complex operations
- I need a quick Queries, a site search uniform, and a strong performance.
- Clear relationships between tables (client ,pharmaces ,products ,reports)

NewSQL Database

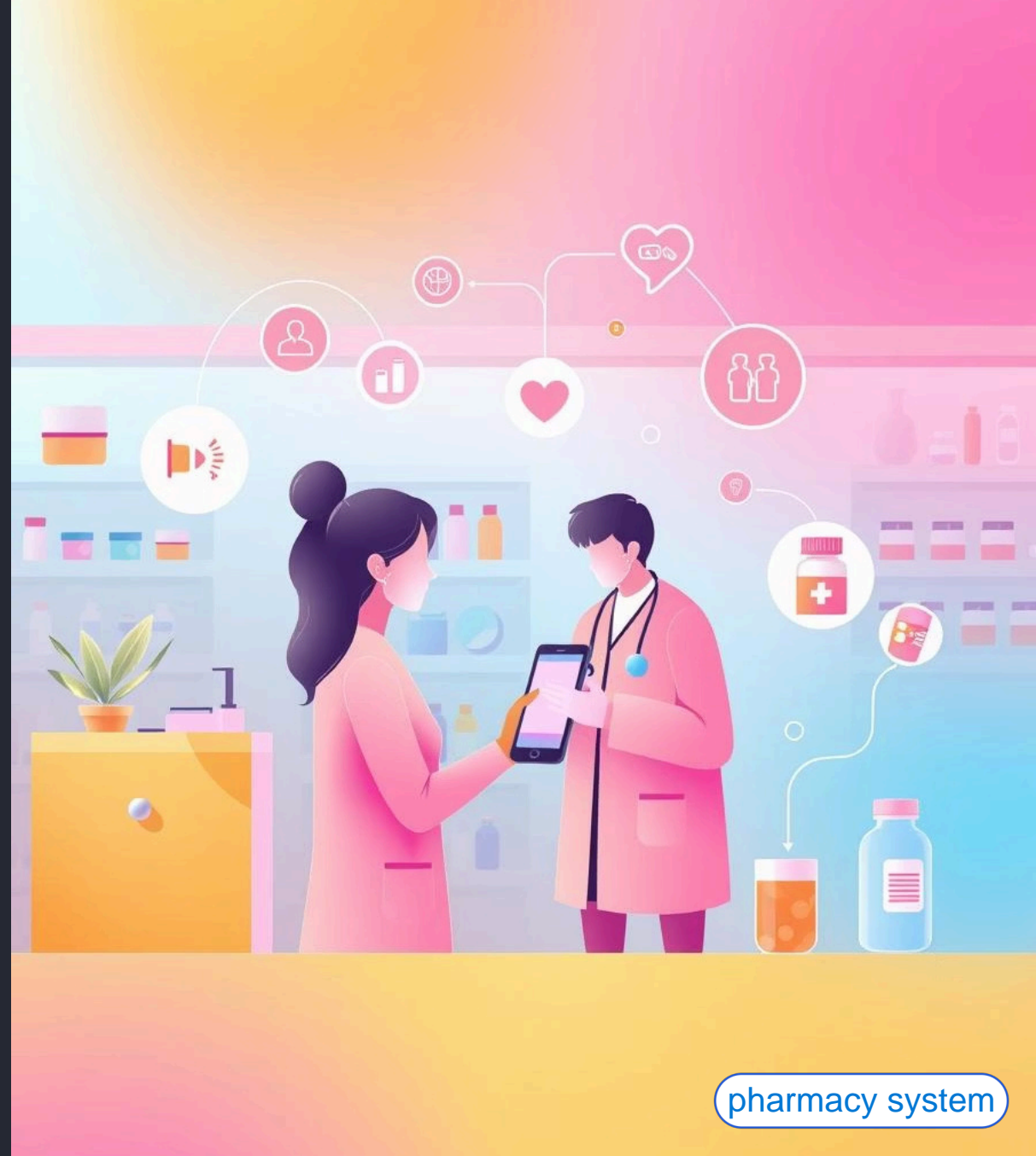


- Combines relational model with high scalability
- Maintains ACID compliance

THANK YOU

made by:

pharmacy system team



pharmacy system