

BUSINESS REQUIREMENTS ANALYSIS

INSTRUCTOR GUIDES: PH.D. ĐỖ NHƯ TÀI

STUDENTS PERFORM:

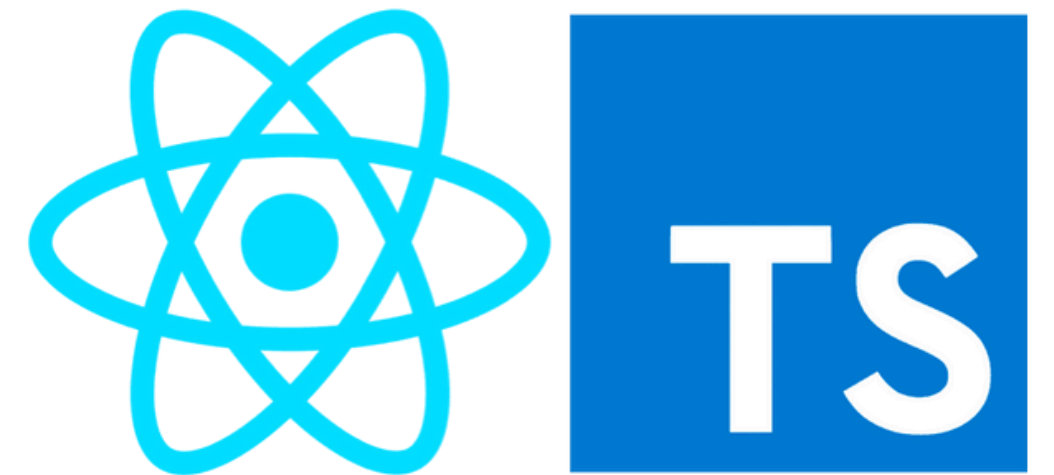
TRANG GIA HUY

NGUYỄN LÊ QUỲNH HƯƠNG

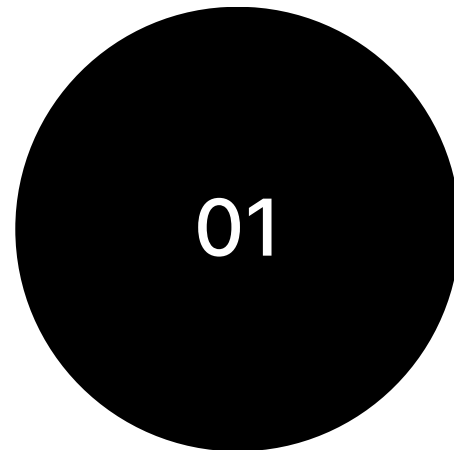
INTRODUCE

Shopease – Full-Stack E-Commerce App

- **Backend:** Spring Boot, Spring Security (JWT), PA/Hibernate, MySQL, RESTful API, Lombok, MapStruct, Spring Mail
- **Front end:** ReactJS + TypeScript, Mantine UI, React Query & Zustand, Axios
- **Key features:** Authentication & Authorization, Product catalog, Cart & Order & Payment, Inventory

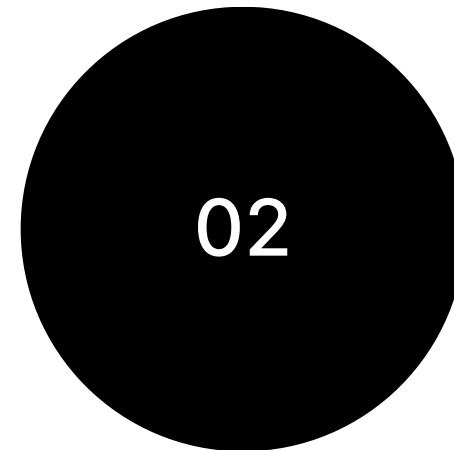


BUSINESS CONTEXT



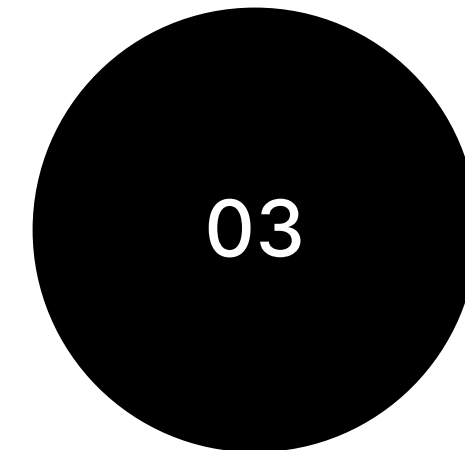
AUTHENTICATION & ACCESS CONTROL

Users and admins register/login with role-based access secured by JWT.



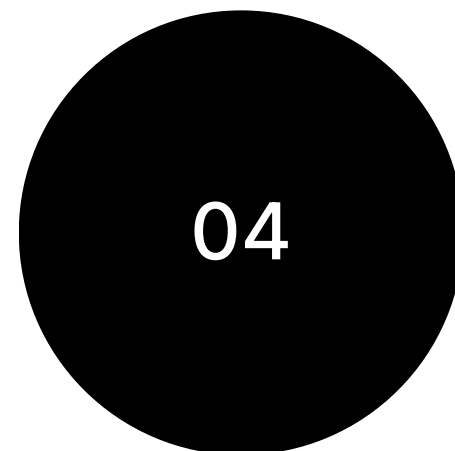
PRODUCT CATALOG

Users browse and filter products; admins manage products, categories, and details



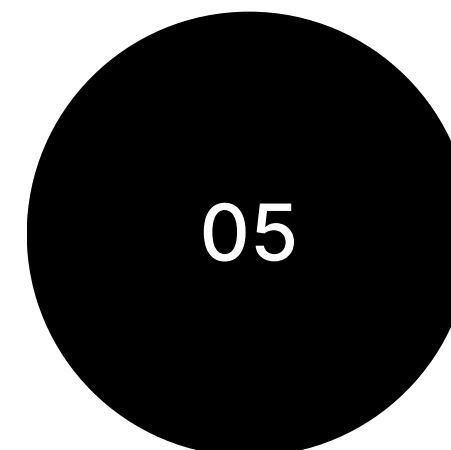
CART, ORDERING & PAYMENT

Users add items to cart, place COD orders, and track status; admins manage orders.



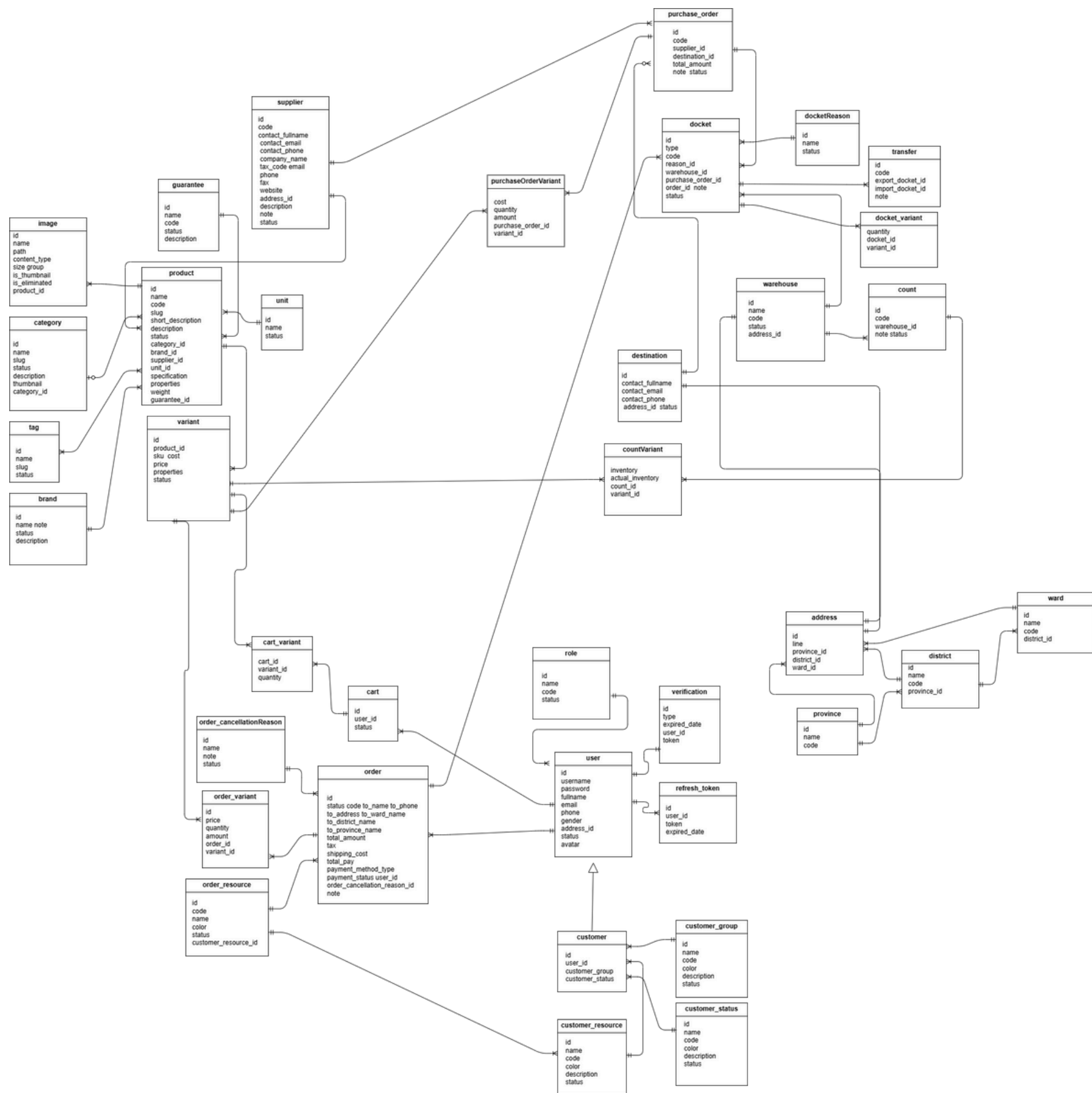
INVENTORY MANAGEMENT

Admins track stock, handle in/out transactions, and create purchase orders.



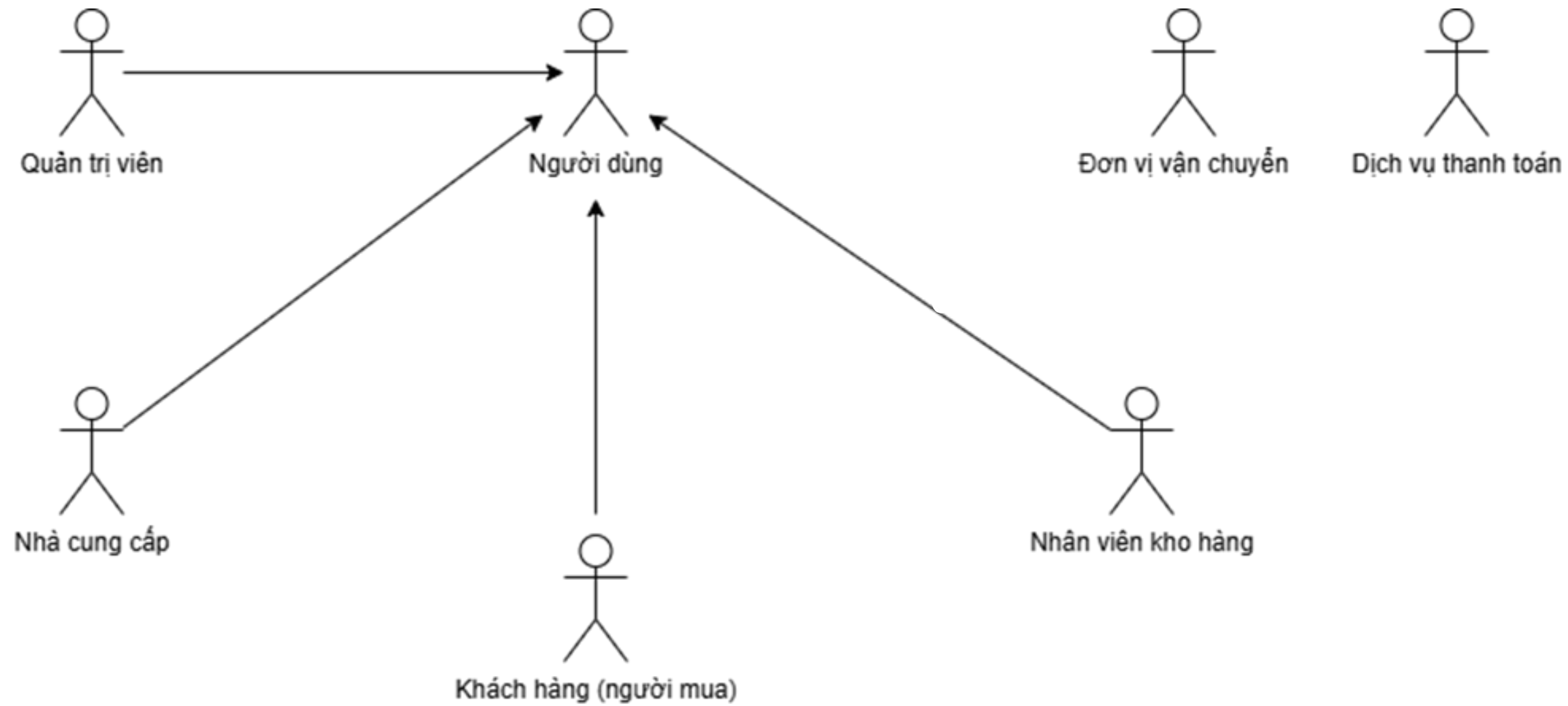
INITIAL DATA SETUP

System preloads sample accounts, products, and orders for testing and demo.

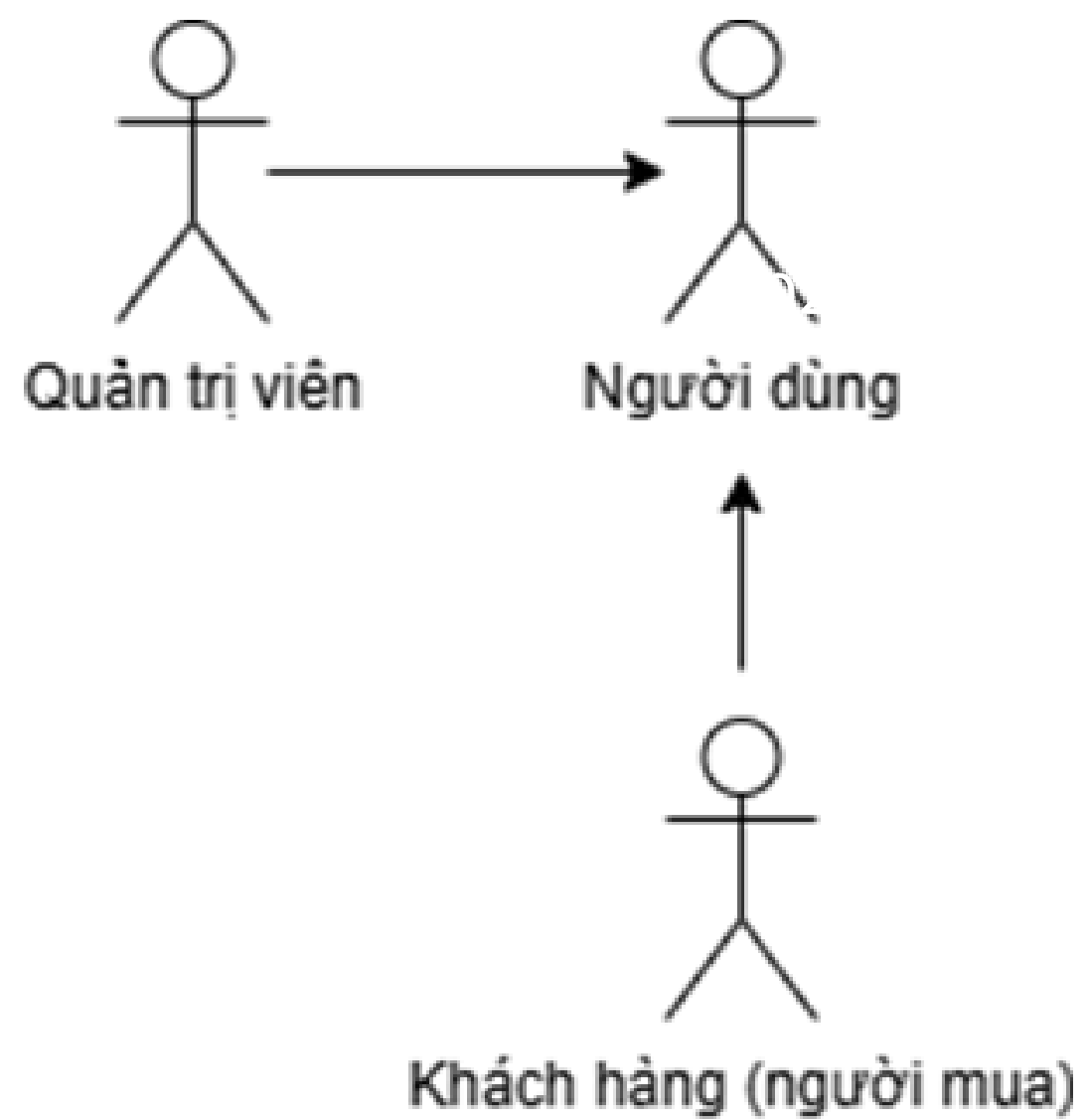


CONCEPTUAL MODEL

BUSINESS ACTOR



SYSTEM ACTOR



USER STORY AND USE CASE

01

AUTHENTICATION & ACCESS CONTROL

02

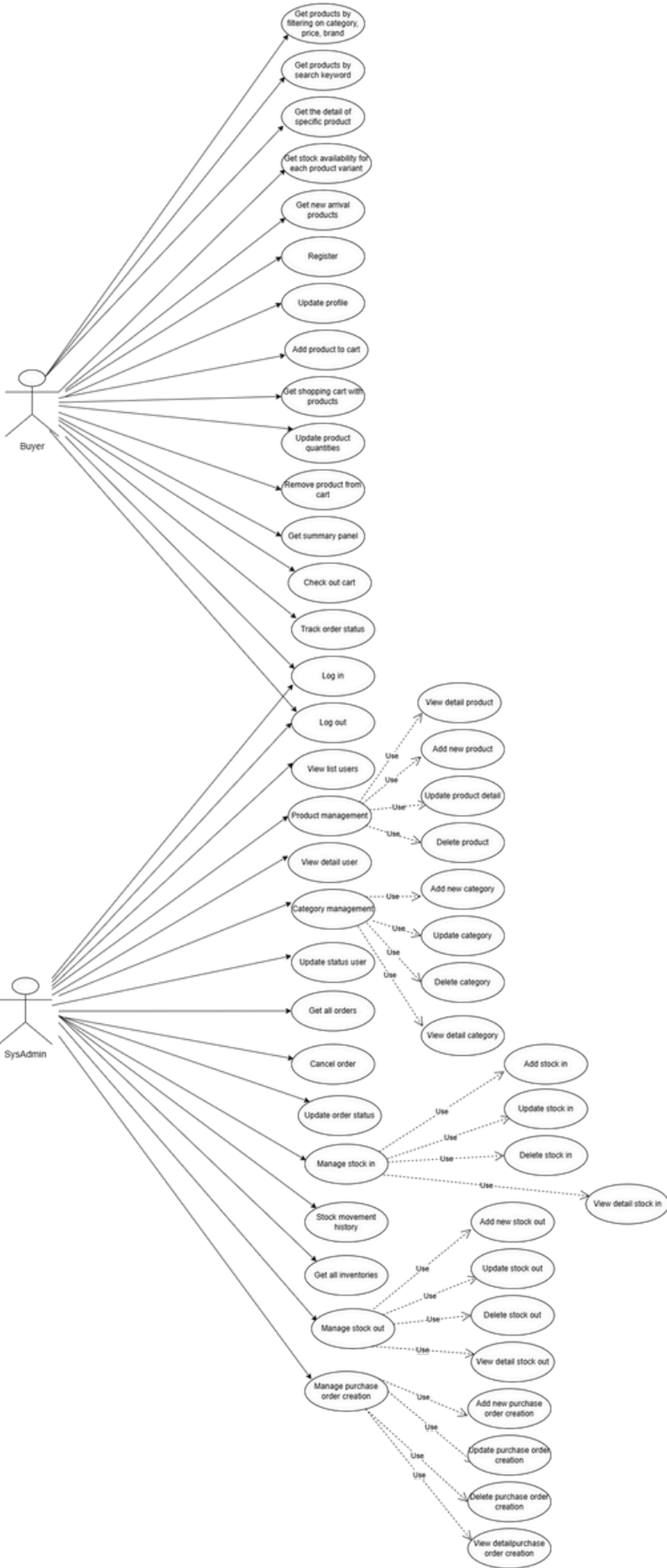
PRODUCT CATALOG

03

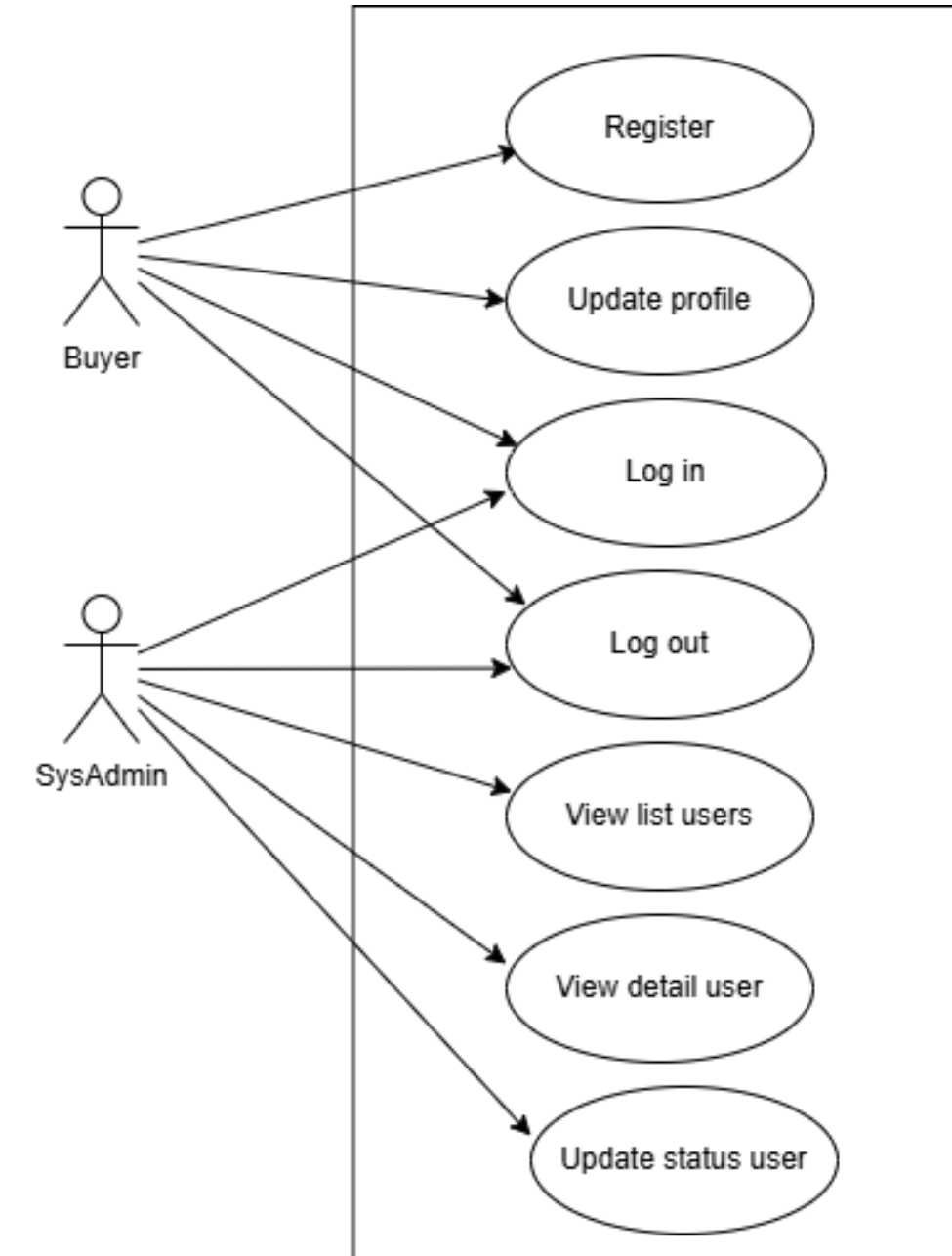
CART, ORDERING & PAYMENT

04

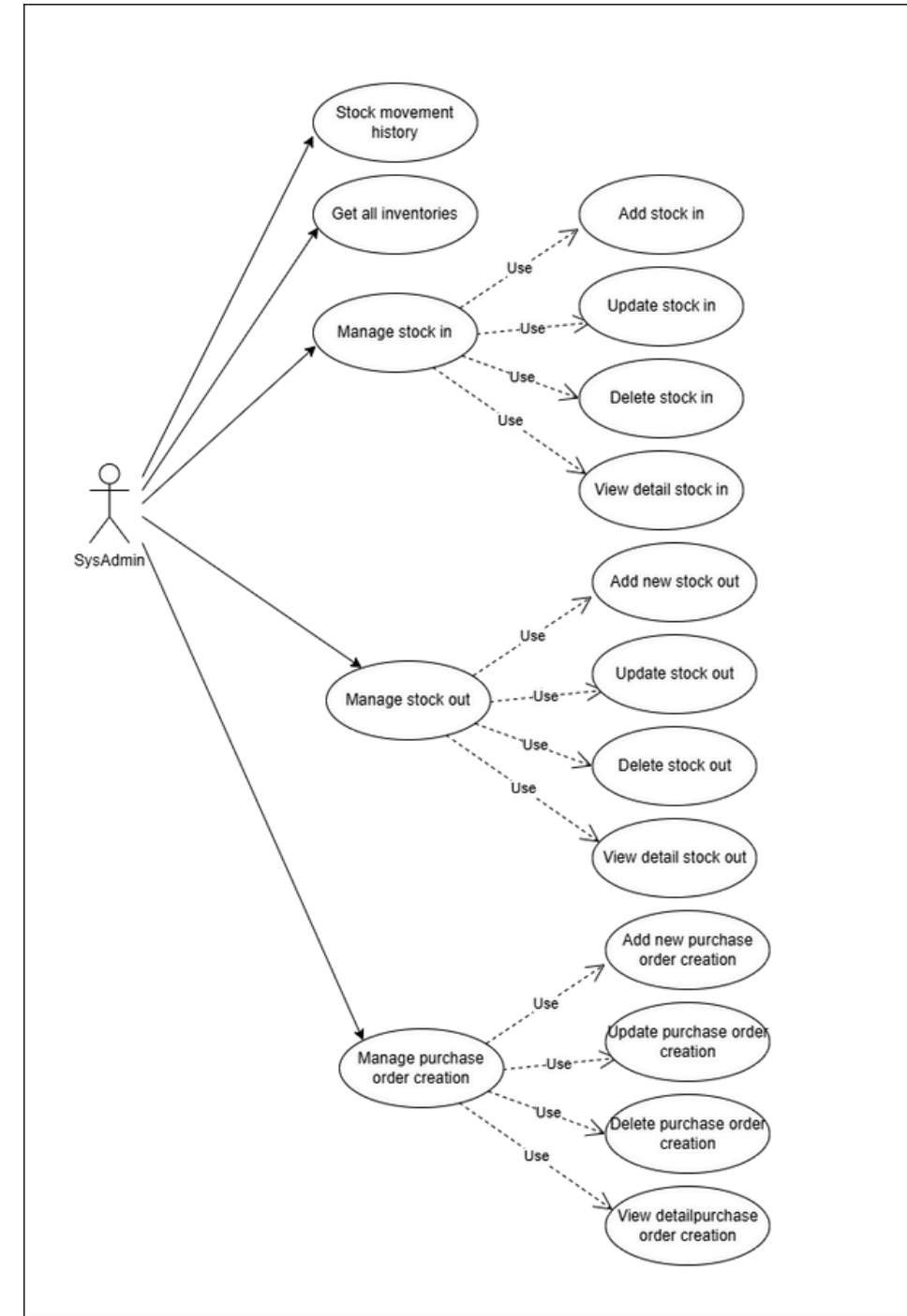
INVENTORY MANAGEMENT



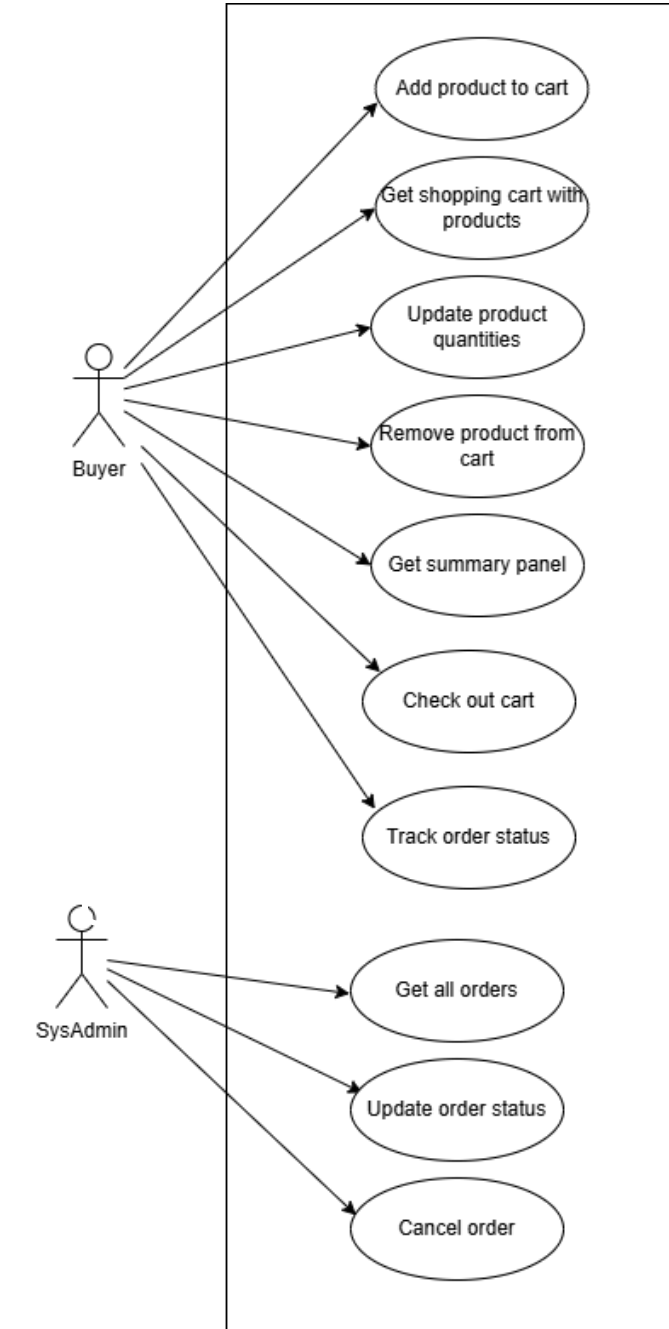
USE CASES



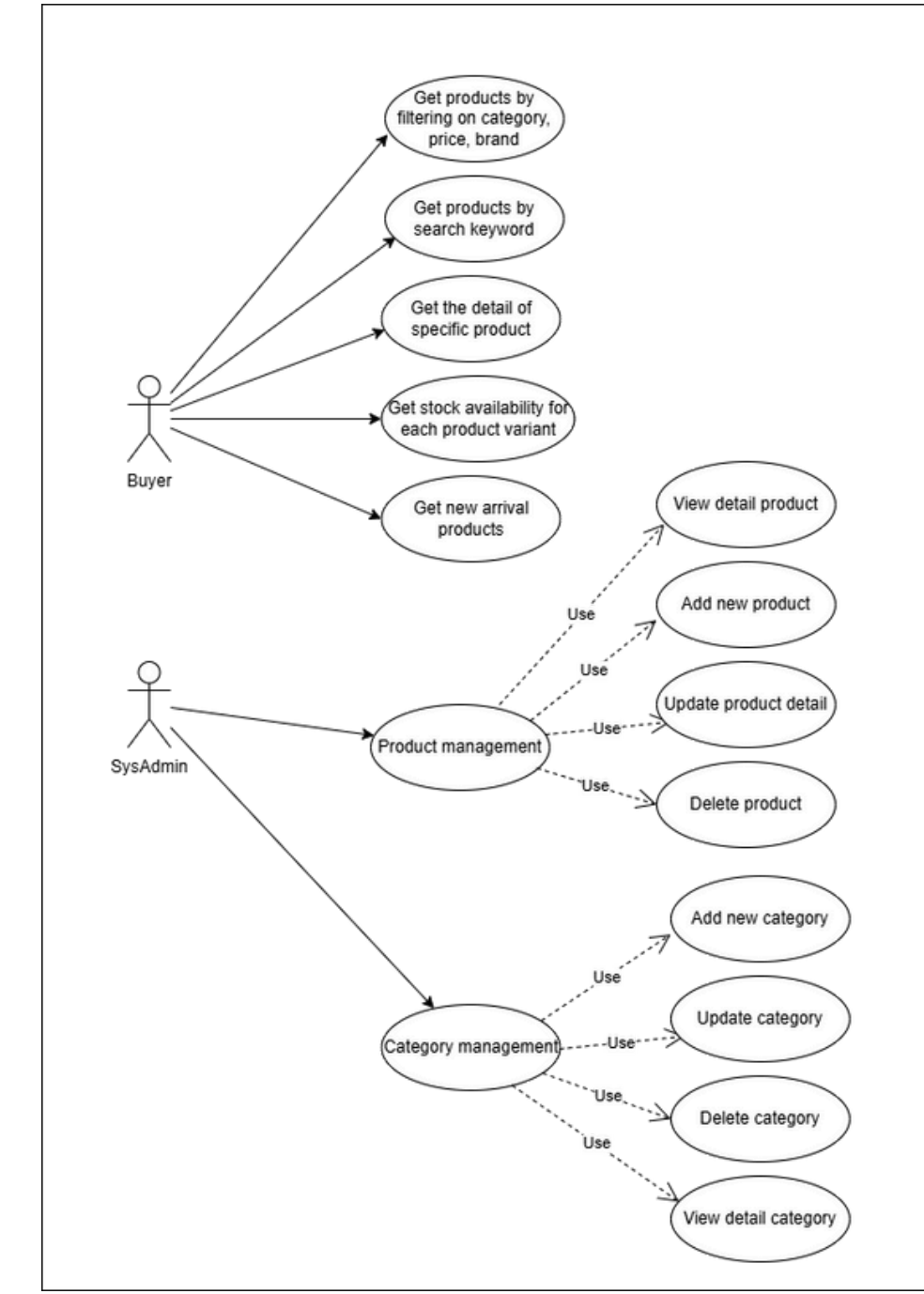
UC1



UC2

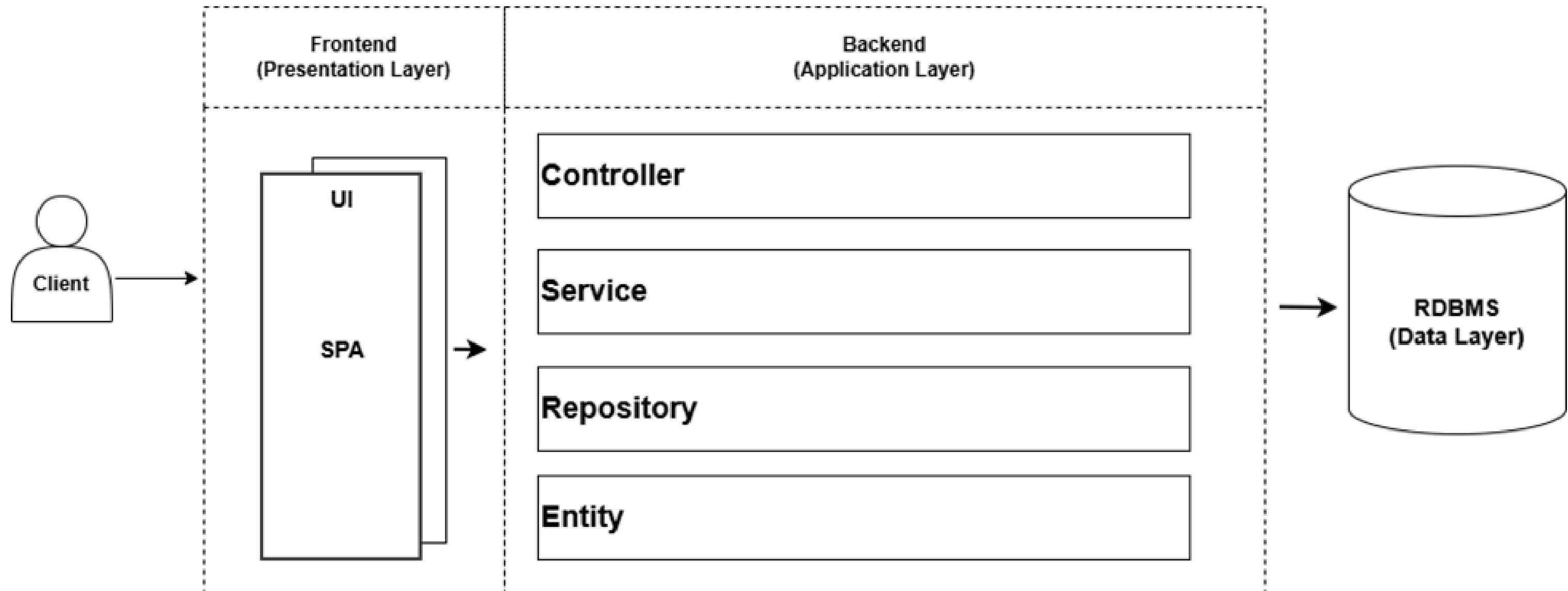


UC3

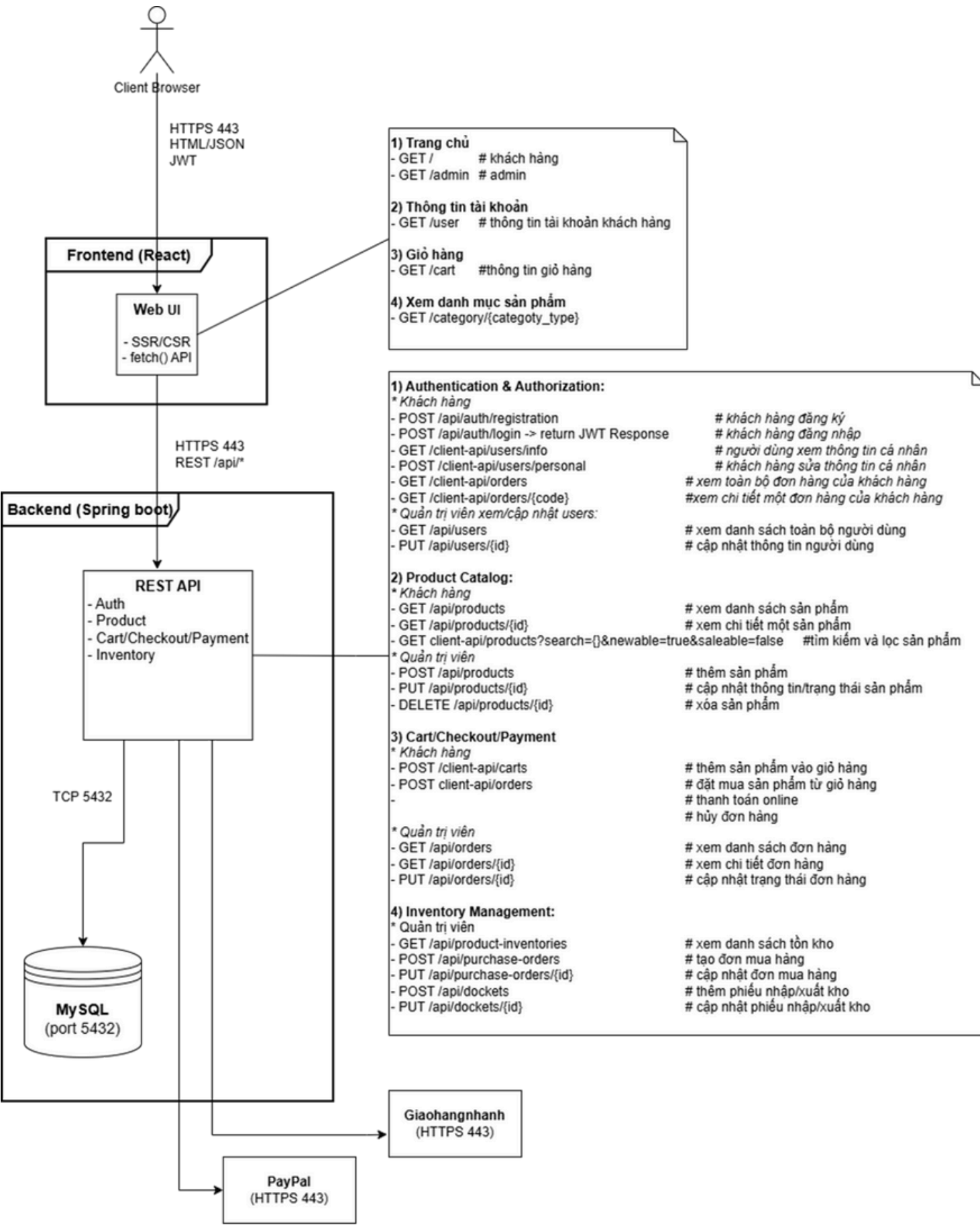


UC4

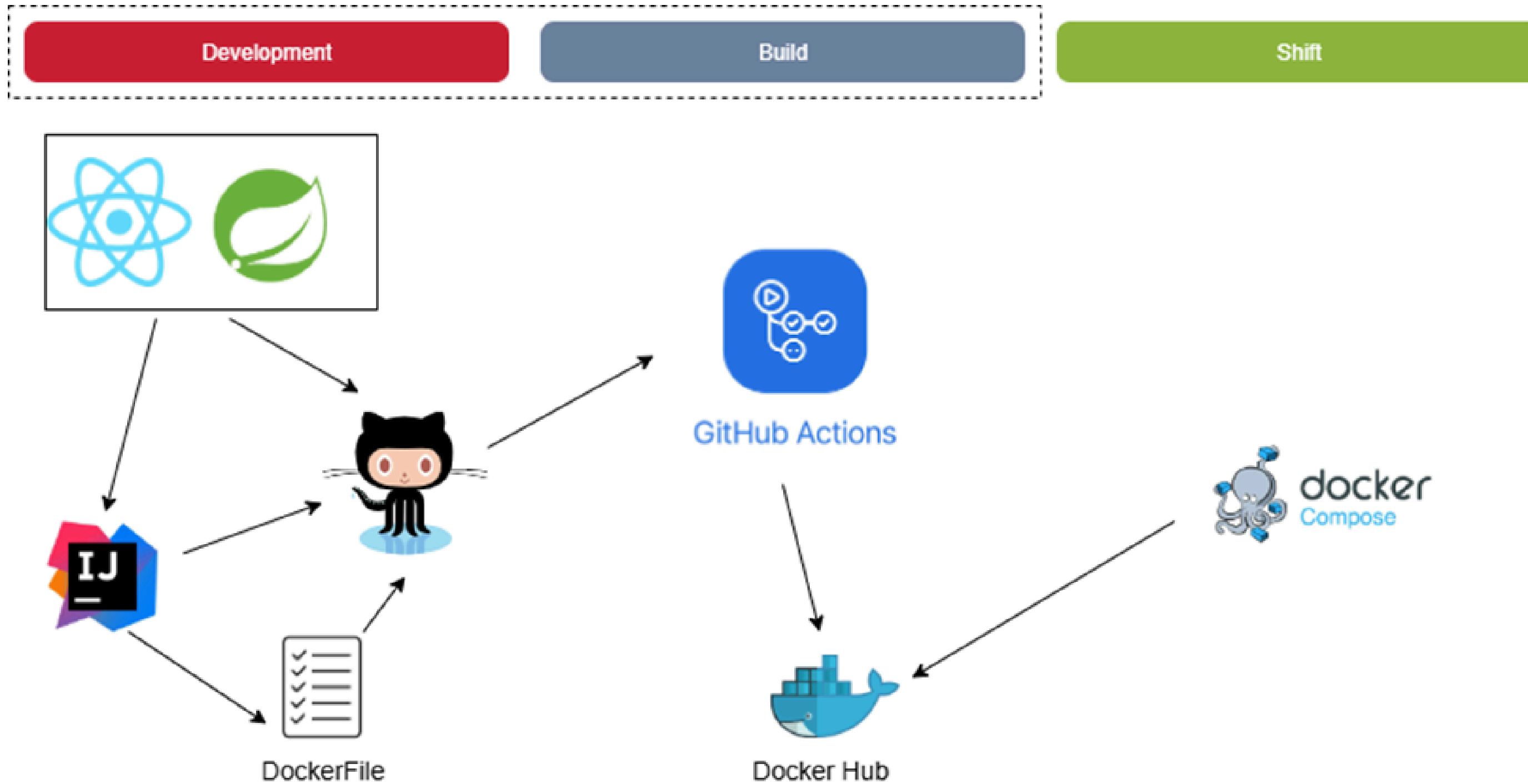
MONOLITHIC ARCHITECTURE



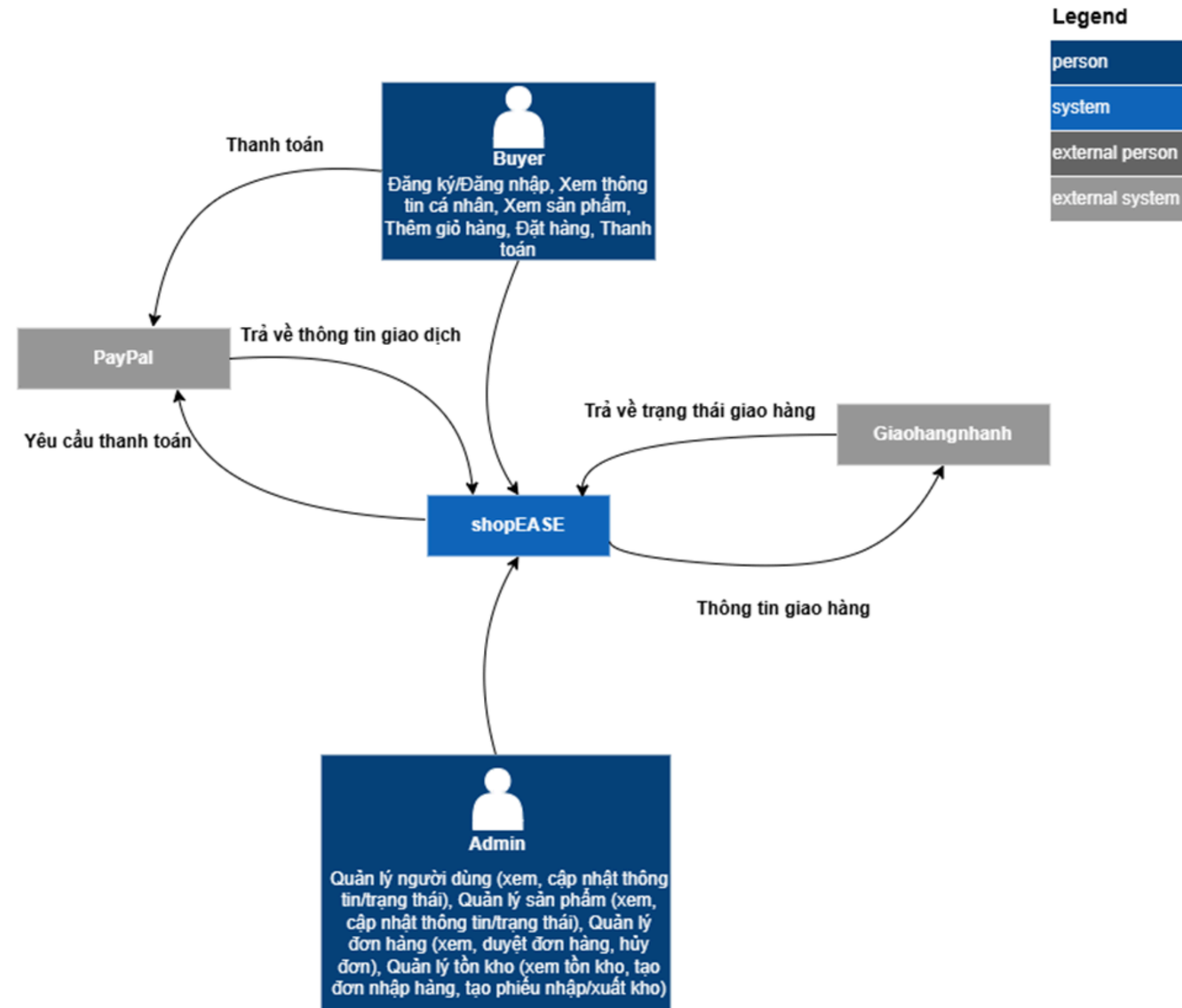
COMMUNICATION VIEW



DEPLOYMENT VIEWING



SYSTEM CONTEXT



SOFTWARE TESTING

THANK YOU FOR YOUR ATTENTION

