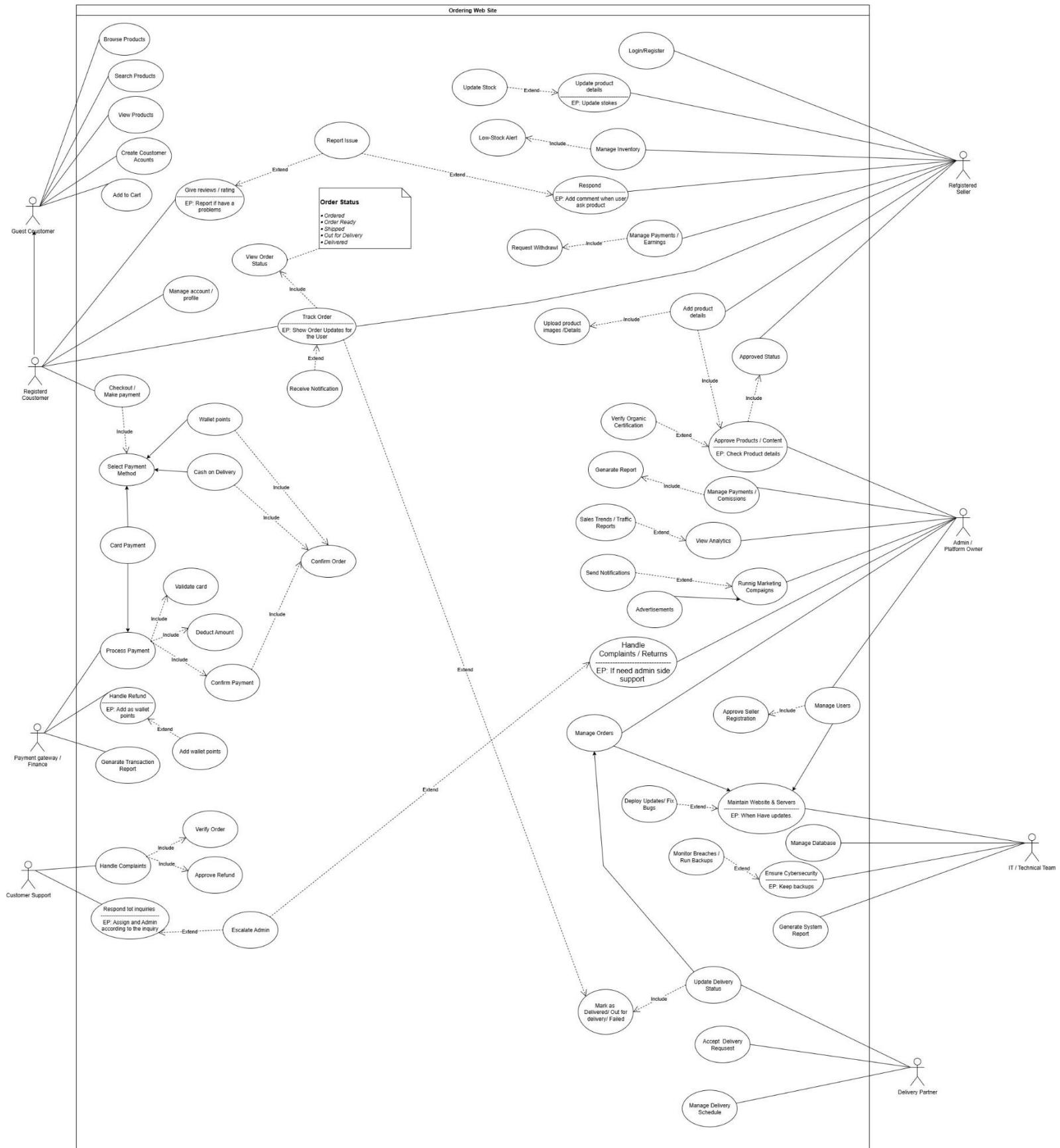
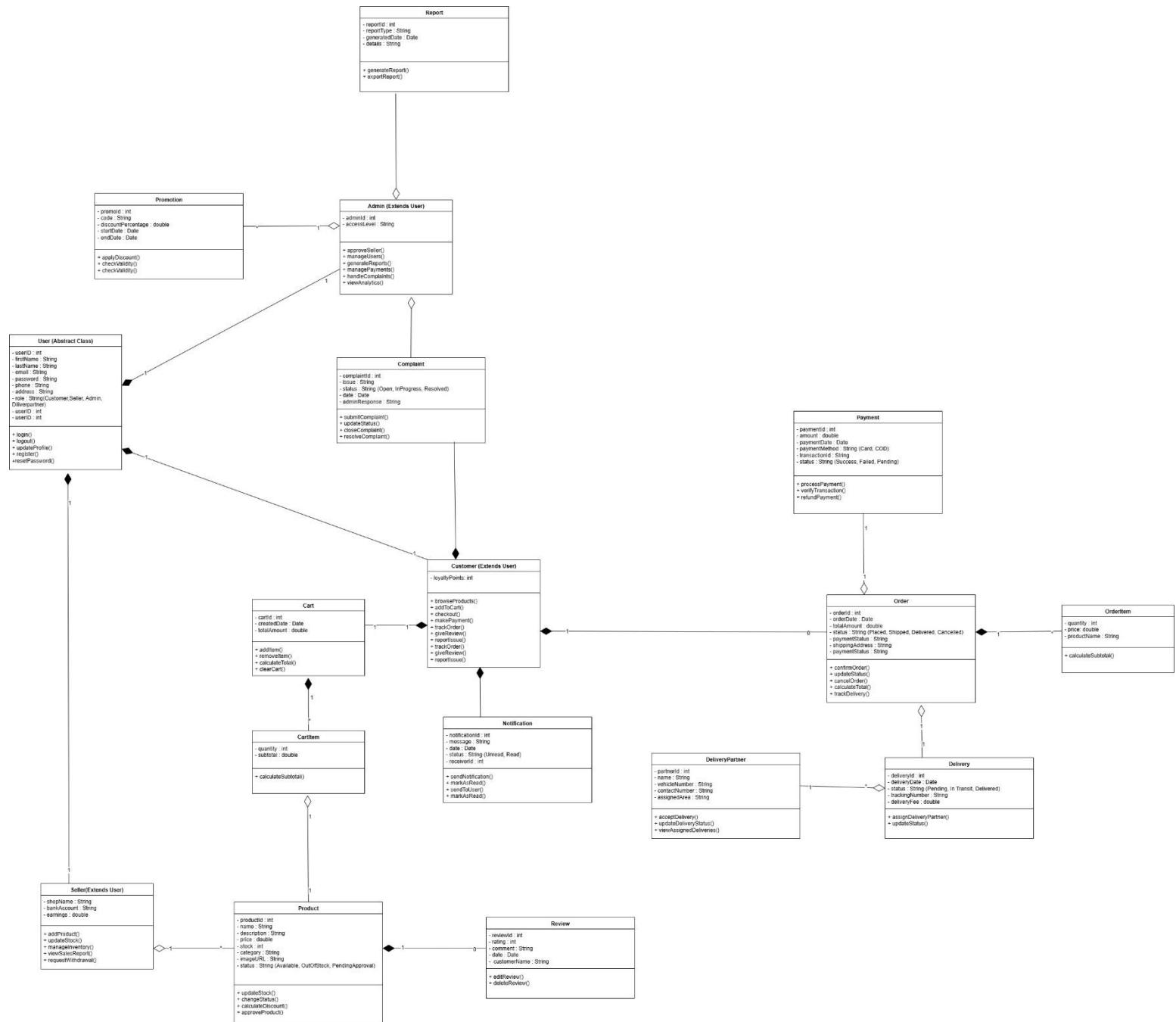
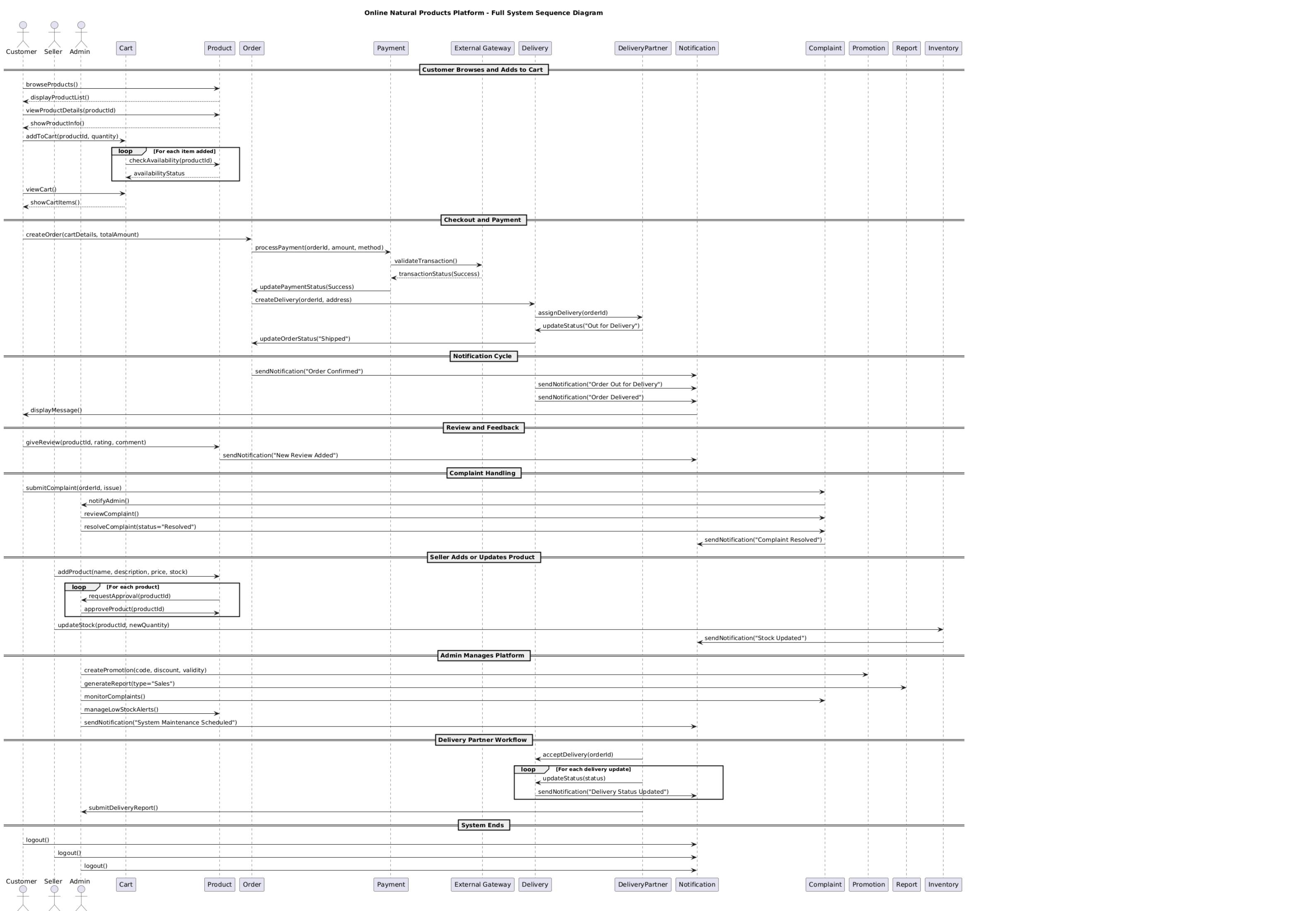


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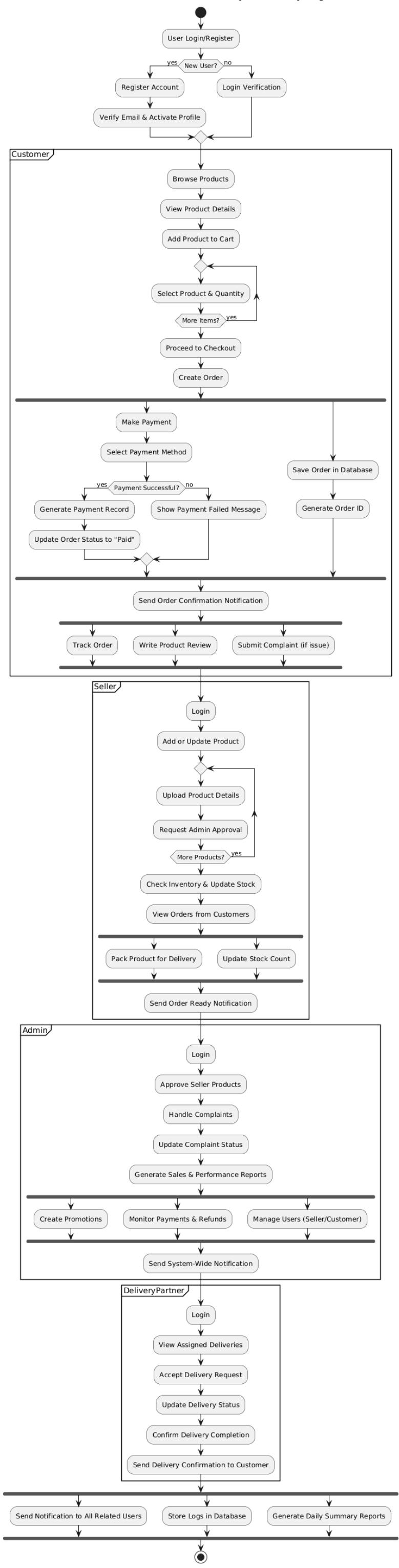




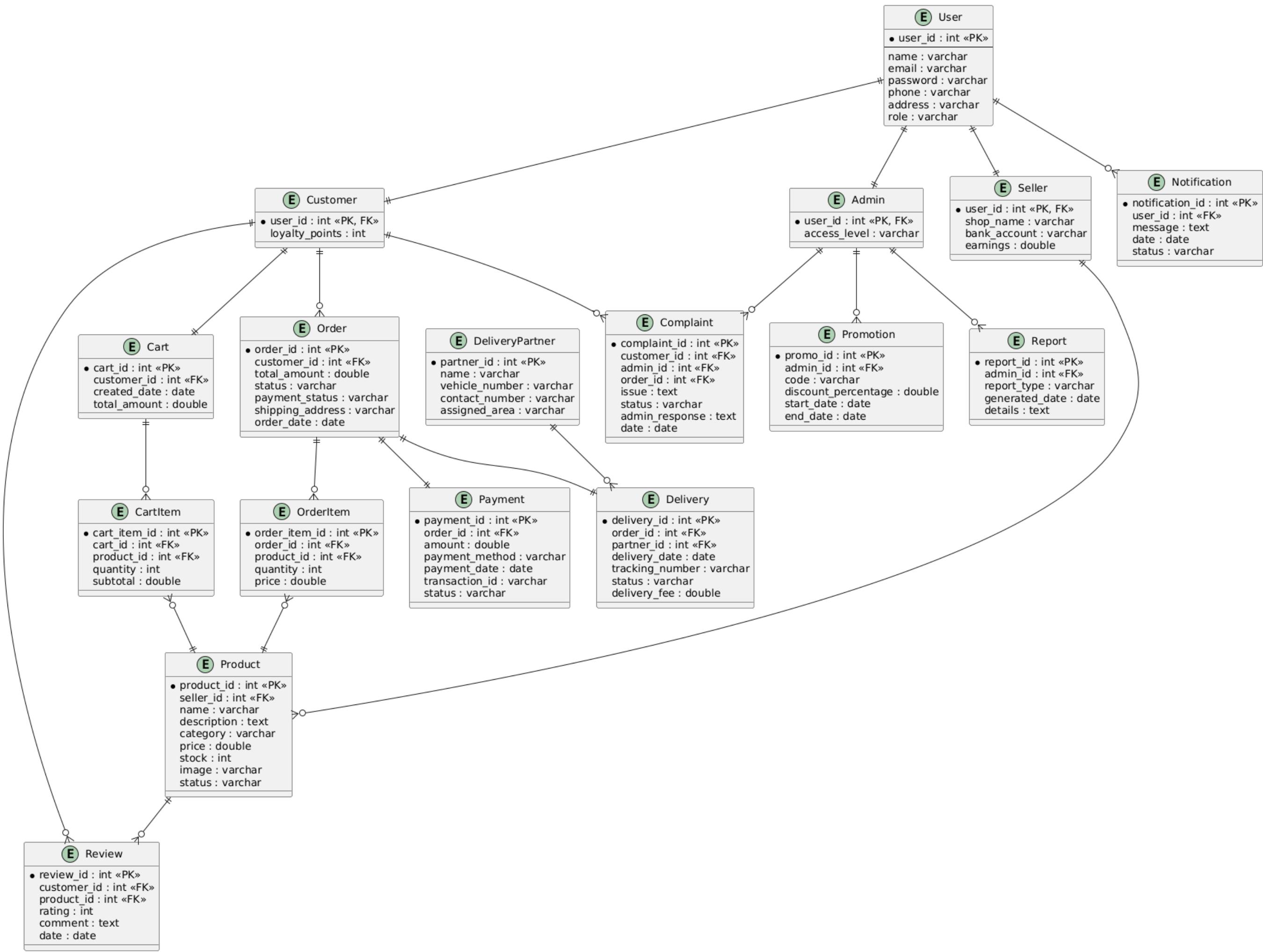




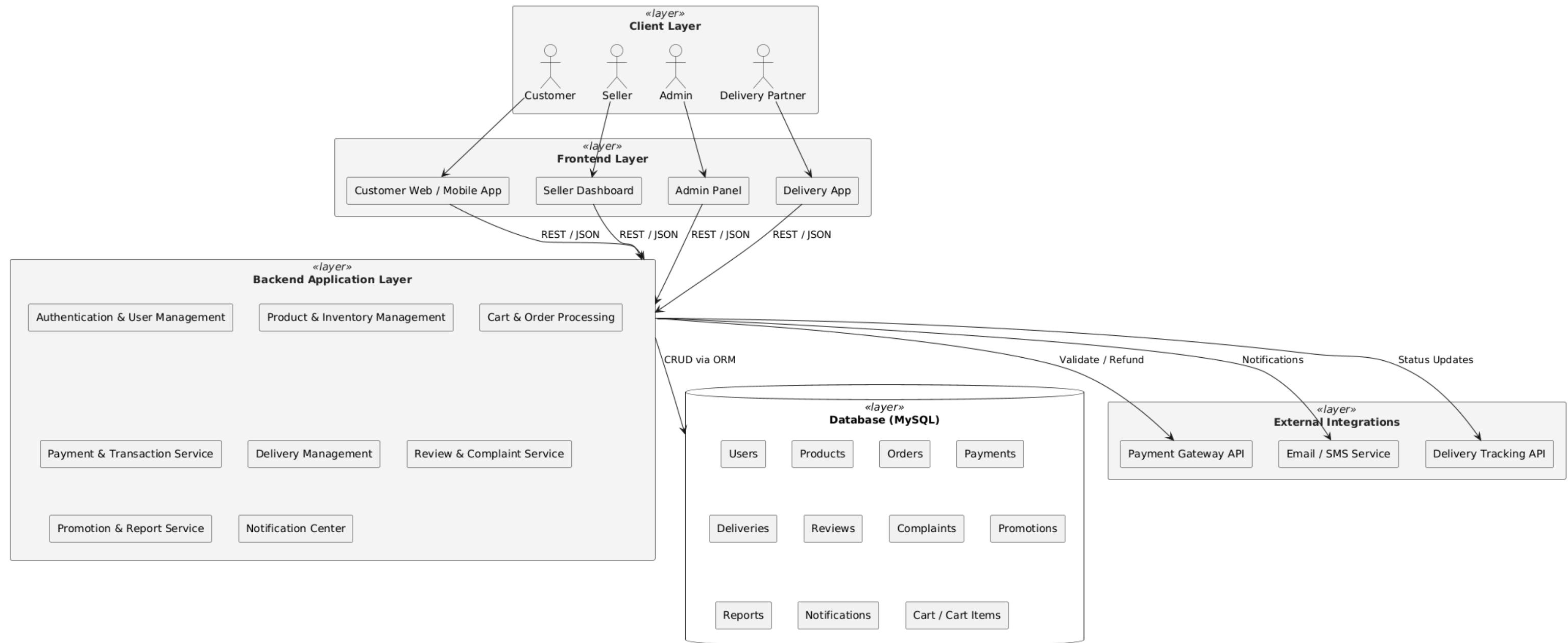
Online Natural Products Platform - Full System Activity Diagram

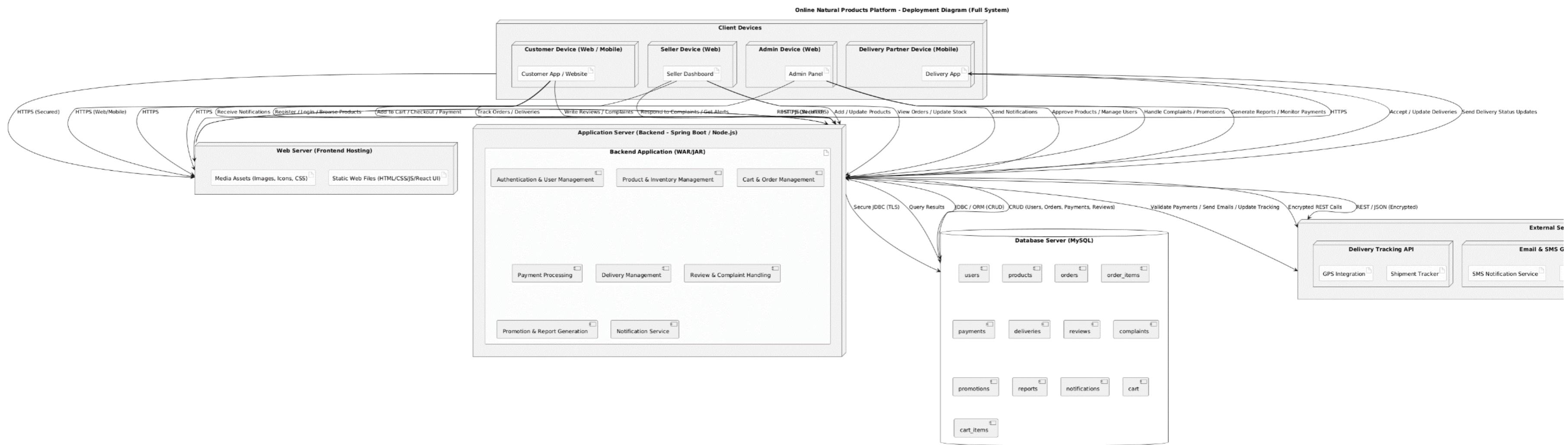


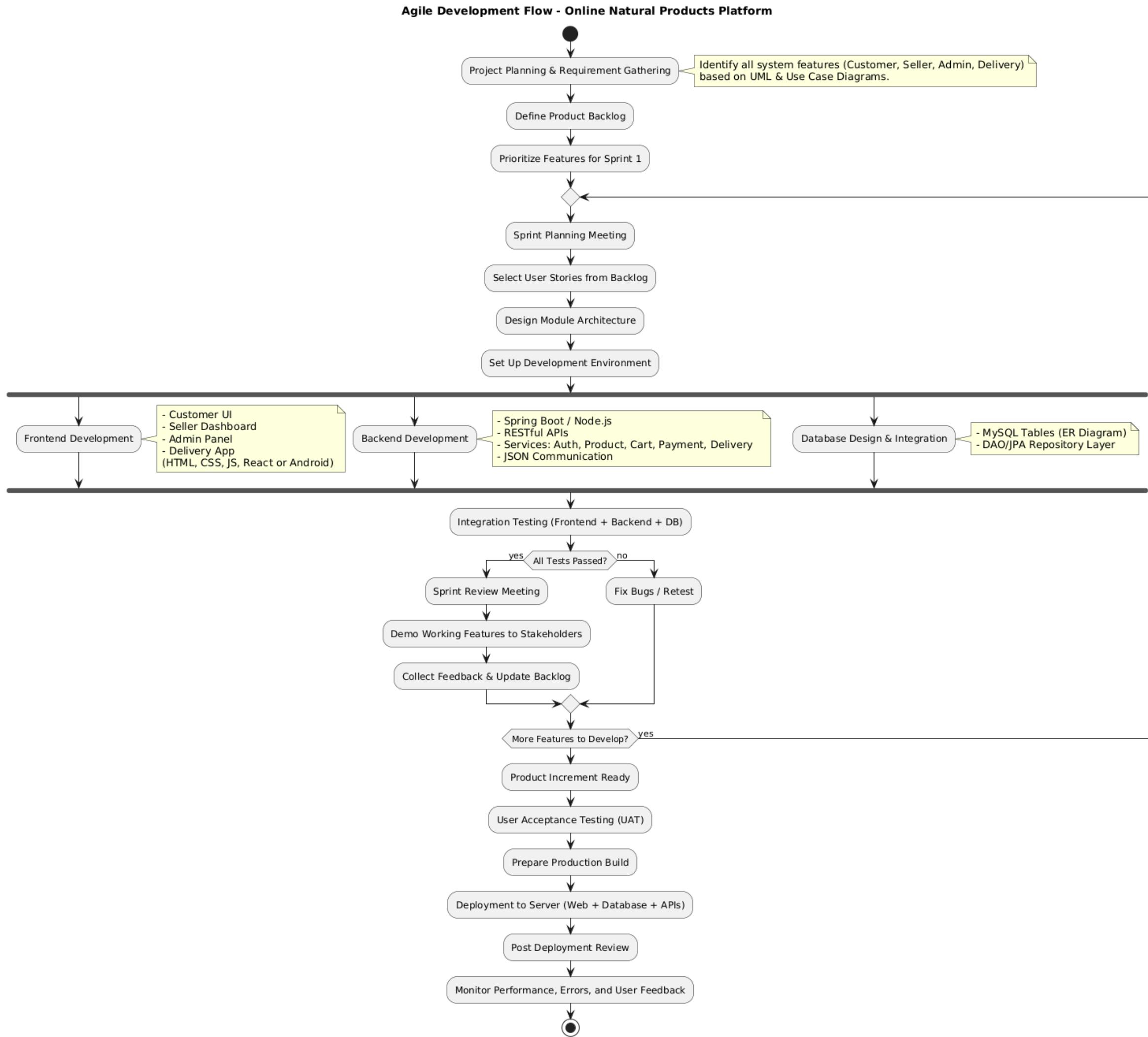
Online Natural Products Platform - ER Diagram



Online Natural Products Platform - Simplified Layered Architecture









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Sprint 1 — the Foundation Sprint, which focuses on establishing your project base and building the first functional vertical slice.

Below is a **complete professional Sprint 1 plan** aligned with Agile and your “Online Natural Products Platform” architecture.

❖ Sprint 1 — Project Setup & Core Authentication Module

① Sprint Duration: 2 weeks (10 working days)

🎯 Sprint Goal:

Set up the development environment, initialize the repository and database, implement **user authentication and role-based access (Customer / Seller / Admin / Delivery Partner)**, and confirm end-to-end connectivity between **frontend ↔ backend ↔ database**.

✳ 1 Sprint Backlog (Stories / Tasks)

Epic / Module	User Story / Task	Priority	Acceptance Criteria
Project Setup	Create GitHub repo & branch structure (main/dev)	🔥 High	Repo initialized, all members invited
	Configure Spring Boot backend skeleton (controllers + services)	🔥 High	App runs locally on :8080
	Set up MySQL DB schema & connection (application.yml)	🔥 High	Tables auto-generated
	Create React / Web frontend (or Android app) skeleton	🔥 High	“Hello World” served
Authentication & User Management	Create .gitignore, README, and environment setup doc	⚡ Medium	Files committed to repo
	Design User entity (class + table) with roles	🔥 High	user_id, email, password, role created
	Implement registration API (/api/register)	🔥 High	Returns 201 Created on success
	Implement login API (/api/login) with JWT	🔥 High	Returns JWT token
	Encrypt passwords using BCrypt	🔥 High	Password not stored in plain text
Frontend (UI)	Implement “Get Profile” API (/api/user/me)	⚡ Medium	Returns user details
	Configure CORS / security filter	⚡ Medium	Frontend calls succeed
	Create login + register pages	🔥 High	UI connects to backend
Testing / Validation	Handle JWT token storage (local/session storage)	⚡ Medium	Token stored after login
	Display logged-in user role on dashboard	⚡ Medium	Correct role shown
	Postman API tests for register & login	🔥 High	100% response OK
DevOps / Version Control	Unit tests for UserService and AuthController	⚡ Medium	All tests pass
	Push code daily, create pull requests, code reviews	🔥 High	PRs merged after review
Documentation	Update README with API endpoints + setup guide	⚡ Medium	Dev onboard possible in 5 min

🧱 Sprint Deliverables

Deliverable	Description
<input checked="" type="checkbox"/> GitHub repository initialized	with main + feature branches
<input checked="" type="checkbox"/> Spring Boot backend running	/api/login, /api/register functional
<input checked="" type="checkbox"/> MySQL database connected	tables auto-created
<input checked="" type="checkbox"/> Frontend UI linked to backend	working login/register flow
<input checked="" type="checkbox"/> JWT authentication implemented	secure token-based auth
<input checked="" type="checkbox"/> Documentation ready	setup + API guide in README

5 Sprint Workflow (Agile Steps)

- Day 1–2 → Sprint Planning + Setup
 - Day 3–5 → Backend Auth Module development
 - Day 6–8 → Frontend integration + testing
 - Day 9 → Bug fixing + Postman API tests
 - Day 10 → Sprint Review & Retrospective
-

4 Definition of Done (DoD)

- Code committed and reviewed
 - All APIs tested successfully
 - UI connects and authenticates users
 - Database data persists correctly
 - Documentation updated
 - Sprint demo prepared for review
-

5 Next Sprint Preview (Sprint 2 – Product Management & Catalog Module)

After Sprint 1, the base system and login flow are ready.

Next Sprint will cover:

- Product CRUD for sellers
 - Product list & search for customers
 - Admin approval workflow
-

Sprint 2 Plan (Product & Catalog Module)