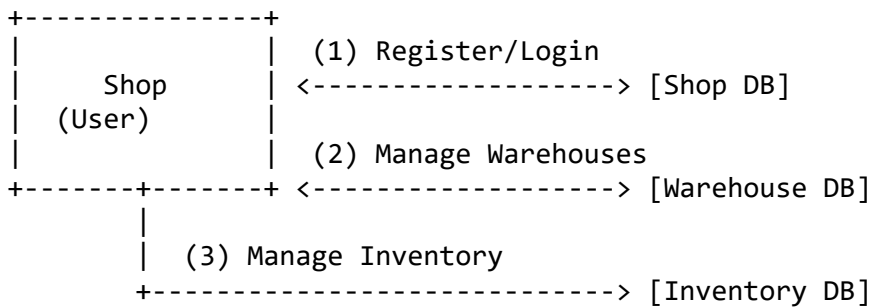
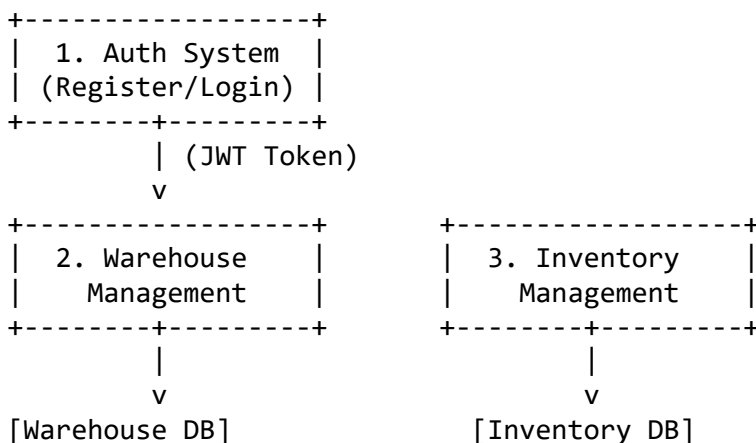


Level 0 DFD (Context Diagram)



Level 1 DFD (Decomposed Processes)



Detailed Flow (Level 2 DFD)

1. Authentication Flow

Shop User → (POST /register) → [Shop DB] → JWT Token
Shop User → (POST /login) → [Shop DB] → JWT Token
Shop User → (GET /profile) → [Shop DB] → Return Profile

2. Warehouse Management

Shop User → (POST /warehouses) → Create Warehouse → [Warehouse DB]
Shop User → (GET /warehouses) → Fetch Warehouses → [Warehouse DB]
Shop User → (DELETE /warehouses/:id) → Remove → [Warehouse DB]

3. Inventory Management

Shop User → (POST /inventory) → Add Product → [Inventory DB] ↔ [Warehouse DB]
Shop User → (PUT /inventory/:id) → Update Qty → [Inventory DB]
Shop User → (DELETE /inventory/:id) → Remove → [Inventory DB]
Shop User → (GET /inventory) → List Products → [Inventory DB]
Shop User → (PATCH /inventory/update-quantities) → Bulk Update → [Inventory DB]