Shopify-style API on Top of Clover - Mapping Document

# Overview

This document provides a detailed mapping between Shopify's API structure and Clover's Inventory Management APIs. It enables building a Shopify-compatible API interface on top of Clover's backend.

# High-Level API Mapping: Shopify → Clover

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| Shopify API | Mapped Clover API / Object | Transformation / Emulation Needed |
| GET /products.json | GET /v3/merchants/{mId}/items | Wrap as products with variants |
| GET /products/{id}.json | GET /v3/merchants/{mId}/items/{itemId} | Wrap into Shopify format |
| POST /products.json | POST /v3/merchants/{mId}/items | Transform Shopify fields to Clover format |
| PUT /products/{id}.json | PUT /v3/merchants/{mId}/items/{itemId} | Map Shopify-style payload |
| DELETE /products/{id}.json | DELETE /v3/merchants/{mId}/items/{itemId} | Straightforward |
| GET /variants/{id}.json | Modifiers or item clone | Emulate variant model |
| GET /inventory\_levels.json | GET /v3/merchants/{mId}/item\_stocks | Format as inventory\_level array |
| POST /inventory\_levels/adjust.json | PUT /v3/merchants/{mId}/item\_stocks/{id} | Emulate adjustment |
| GET /locations.json | GET /v3/merchants/{mId}/locations | Direct mapping |
| GET /orders.json | GET /v3/merchants/{mId}/orders | Wrap into Shopify order format |
| GET /customers.json | GET /v3/merchants/{mId}/customers | Direct mapping |
| GET /collections.json | GET /v3/merchants/{mId}/categories | Return as Shopify collections |
| GET /inventory\_items/{id}.json | item + item\_stock | Build composite inventory\_item |

# Entity Translation Summary

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| Shopify Concept | Clover Mapping | Strategy |
| Product | item | Direct |
| Variant | Modifier or separate item | Emulate |
| Inventory Level | itemStock | 1-to-1 |
| Inventory Item | item + itemStock | Composite |
| Location | location | Direct |
| Category/Collection | category | Rename/Wrap |
| Order | order | Wrap into Shopify format |