

Context DFD — “Campus Merch Marketplace (CMM)”

Process

- **P0: Campus Merch Marketplace (CMM)**
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External Entities

- **E1 Student (Buyer)** — campus students placing and receiving orders.
 - **E2 USC (Main Seller + Admin)** — central seller, manages product listings, receives payments, and distributes goods to campuses.
 - **E3 Campus Directors** — responsible for onsite distribution to students per campus.
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Data Flows

E1 Student (Buyer)

- **To CMM →** Account registration/login, Browse/Search Queries, Order Details, Payment Choice (GCash, cash, bank transfer), Feedback/Review (with privacy option).
- **From CMM ←** Listings/Results, Order Confirmations, Payment Instructions, Distribution Notice, Review Display.

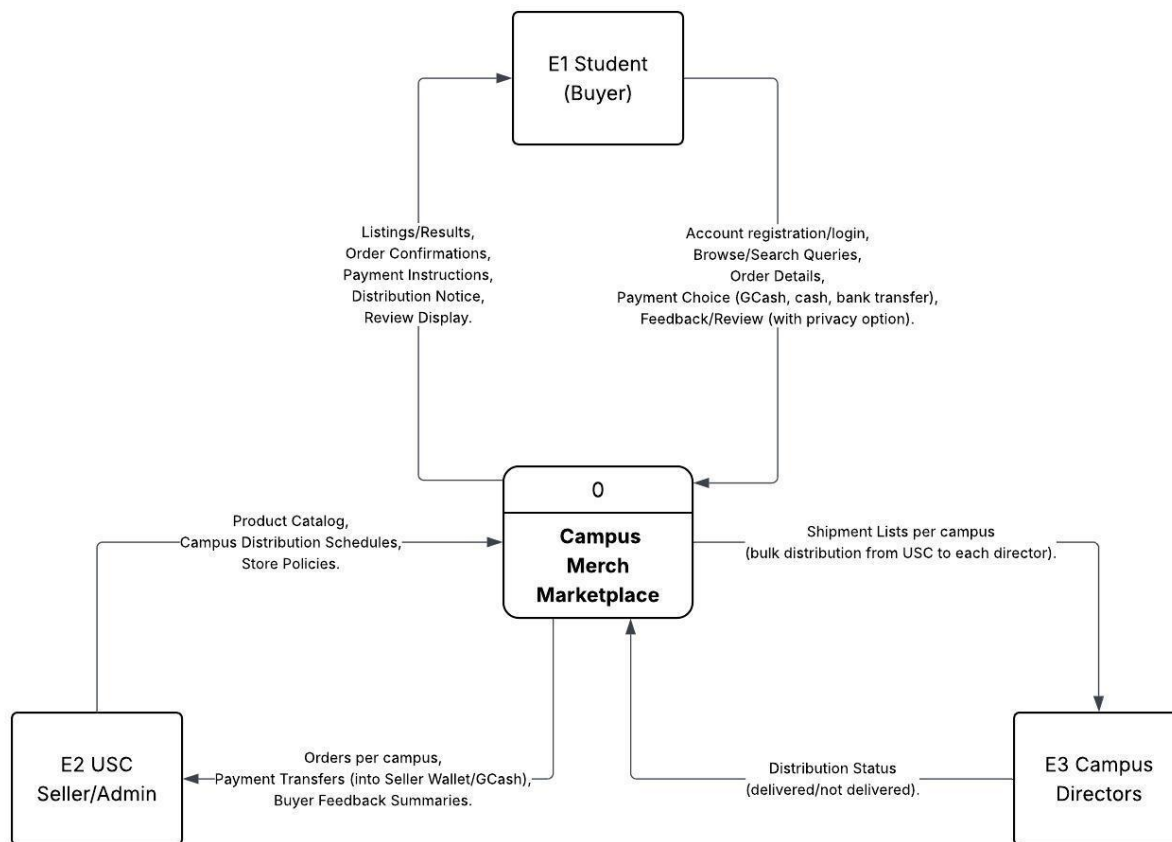
E2 USC (Seller + Admin)

- **To CMM →** Product Catalog, Campus Distribution Schedules, Store Policies.
- **From CMM ←** Orders per campus, Payment Transfers (into Seller Wallet/GCash), Buyer Feedback Summaries.

E3 Campus Directors

- **To CMM** → Distribution Status (delivered/not delivered).
- **From CMM** ← Shipment Lists per campus (bulk distribution from USC to each director).

Context Diagram



Key Changes from the First Draft

1. **One Seller/Admin (USC):** All goods originate from USC. They manage listings and payments, then bulk-distribute goods to each campus.
2. **Onsite Distribution:** No external couriers — instead, **Campus Directors** handle delivery to students.
3. **Simplified Payments:** GCash or cash (optionally bank transfer), but all funds route to **USC Seller Wallet**.

Level-0 DFD — Campus Merch Marketplace (CMM)

External Entities

- **E1 Student (Buyer)**
 - **E2 USC (Seller + Admin)**
 - **E3 Campus Directors**
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Internal Processes (inside CMM)

1. **P1: Catalog & Listings Management**
 - Maintains product catalog and store policies provided by USC.
 - Provides searchable listings to students.
 2. **P2: Order Management**
 - Accepts orders from students.
 - Groups orders by campus for distribution.
 - Sends order summaries to USC and Campus Directors.
 3. **P3: Payment Handling**
 - Manages student payments (GCash, cash, optional bank transfer).
 - Routes funds to USC Seller Wallet.
 - Records payment status.
 4. **P4: Distribution Coordination**
 - Prepares bulk shipment list per campus.
 - Sends distribution lists to Campus Directors.
 - Collects distribution confirmations.
 5. **P5: Feedback & Review System**
 - Collects student feedback (rating, comment, privacy flag).
 - Shows privacy-aware reviews to other students.
 - Summarizes feedback for USC.
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Data Stores (inside system)

- **D1 Product Catalog** (listings, policies)
 - **D2 Order Records** (all orders, grouped by campus)
 - **D3 Payment Records** (transaction details, status)
 - **D4 Distribution Logs** (shipment per campus, confirmations)
 - **D5 Review Repository** (student feedback with privacy settings)
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Data Flows (high-level)

E1 Student (Buyer)

- To P1: Search Queries
- From P1: Listings
- To P2: Order Details
- To P3: Payment Info (GCash, cash, transfer)
- From P2/P3: Order Confirmation & Payment Status
- To P5: Review Submission (with privacy flag)
- From P5: Review Display

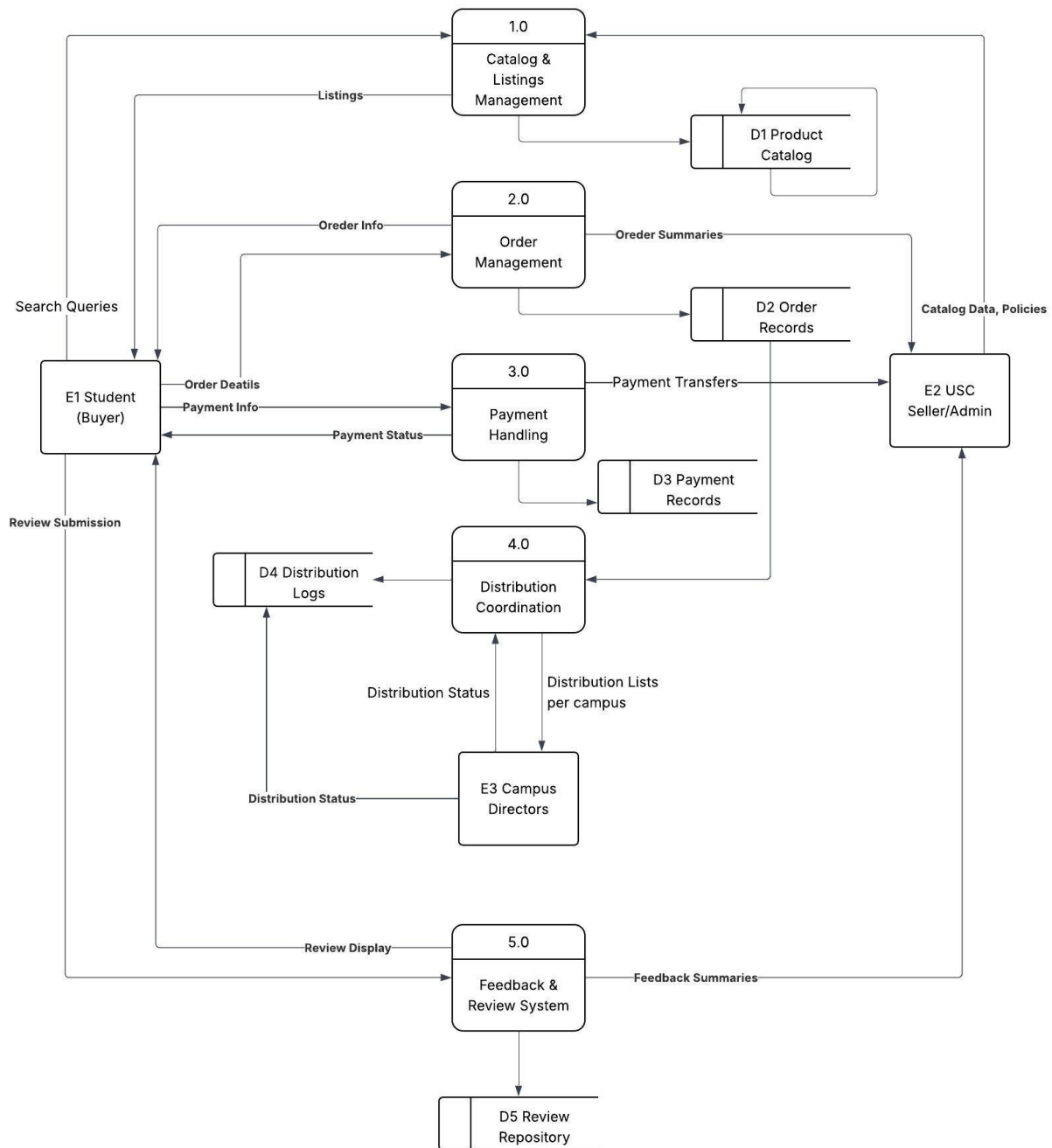
E2 USC (Seller + Admin)

- To P1: Catalog Data, Policies
- From P2: Order Summaries (by campus)
- From P3: Payment Transfers
- From P5: Feedback Summaries

E3 Campus Directors

- From P4: Distribution Lists per campus
- To P4: Distribution Status

Data Flow Diagram



Level-1 DFD — Campus Merch Marketplace (CMM)

External Entities

- **E1 Student (Buyer)**
- **E2 USC (Seller + Admin)**
- **E3 Campus Directors**

Internal Data Flow Process

1. **P1: Catalog & Listings Management**
2. **P2: Order Management**
3. **P3: Payment Handling**
4. **P4: Distribution Coordination**
5. **P5: Feedback & Review System**

Data flow Sub Processes

1. **P1: Catalog & Listings Management**

Sub-Process:

2. **P2: Order Management**

Sub Process:

3. **P3: Payment Handling**

Sub Process:

4. **P4: Distribution Coordination**

Sub Process:

5. **P5: Feedback & Review System**

Sub Process:

DATA FLOW DIAGRAM (LEVEL 1)