**Context DFD — “Campus Merch Marketplace (CMM)”**

**Single Process**

* **P0: Campus Merch Marketplace (CMM)**

**External Entities**

* **E1 Visitor/Student (Buyer)** *(merged: public + student)*
* **E2 Merch Seller / Campus Store**
* **E3 University Auth/Directory** *(kept separate from Admin)*
* **E4 Payment Processor**
* **E5 Courier/Delivery Partner**
* **E6 Admin/Moderator**

**Data Flows**

**E1 Visitor/Student (Buyer)**

* **To CMM →**
  + *Anonymous:* Browse/Search Query, Campus Filter
  + *Authenticated:* Registration/Login, Order Details, Payment Intent, Review Submission (**privacy flag**)
* **From CMM ←**
  + *Anonymous:* Public Listings/Results
  + *Authenticated:* Order Confirmation, Seller Service-Area Notice (e.g., “Polangui only”), Payment Status, Delivery Status, Privacy-aware Review Display

**E2 Merch Seller / Campus Store**

* **To CMM →** Store Registration, Campus Service Area, Inventory Updates, Order Accept/Reject, Fulfillment Updates, Policies
* **From CMM ←** Order Requests, Buyer Details (minimum needed), Store Analytics, Compliance Notices  
  (put to admin as one )

**E3 University Auth/Directory**

* **To CMM →** Auth/Verification Request
* **From CMM ←** Verification Result (success/fail, campus affiliation)

**(wla na)**

**E4 Payment Processor**

* **To CMM →** Payment Auth/Capture/Refund Requests
* **From CMM ←** Payment/Refund Status  
  (gcash payment or money )

**E5 Courier/Delivery Partner**

* **To CMM →** Shipment Create/Update (pickup/drop-off, tracking)
* **From CMM ←** Tracking Updates, Delivery Confirmation/Exceptions  
    
  (note: for pick-up)  
  (campus distribution)

**E6 Admin/Moderator**

* **To CMM →** Policies/Moderation Actions, Category & Campus Config, Seller Verification Decisions (no need)   
  (note: interview USC of process in merch selling, start to finish)
* **From CMM ←** Reports/Dashboards, Abuse/Dispute Queue, Audit Logs



## Privacy & Scope

* **Reviews respect privacy flag:** display name+campus only, or anonymized if chosen.
* **Campus scoping:** Sellers define service areas (default Main Campus; e.g., **Polangui-only**) and CMM enforces visibility/orderability by campus.

NOTES:   
1. Seller and admin as one, focus onto one seller (USC) for easier management. Make it as USC sends products to campuses easier, and the sellers within the campus will be the ones to distribute. Distribution of goods is per campus , not per student (as intended before)  
  
2. Payment for goods should be changed to gcash or cash, if to proceed with cards process, make a banking transfer process (much better if gcash/cash para easy rin sa website hehe)   
(gcash payment would mean connectivity of gcash account to seller account, only 1 way tho, like transferring money to gcash balance, or to seller wallet THEN gcash (pick which) )

3. in courier, if proceeding with the process, it would mean a separate site for the couriers, for better processing, do onsite distribution instead, and since onsite, campus directors will be the one to distribute

4. Interview a USC perosonel to better understand distribution methods for courier, ordering and processing of goods

5. no more verification on no.1 as its 1 seller distributing to campuses