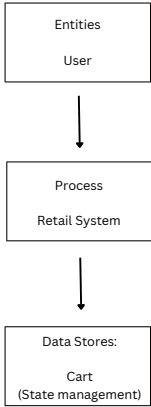


Level 0 (Context Diagram)

At the highest level, the system interacts with users.

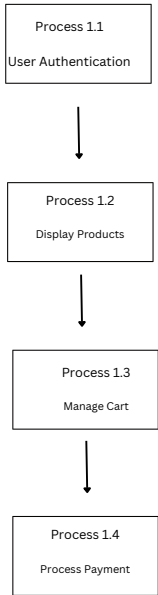


Flow:

1. User → Retail System: Requests product listing.
2. Retail System → User: Displays available products.
3. User → Retail System: Signs up/logs in.
4. Retail System → User Database: Stores or retrieves user credentials.
5. User → Retail System: Adds/removes items in cart.
6. Retail System → Cart: Updates cart state.
7. User → Retail System: Proceeds to payment.
8. Retail System → Payment Database: Stores transaction details.
9. Retail System → User: Confirms order.

Level 1 DFD (Decomposition of Retail System)

Breaking down the system into smaller processes.



Data Flow Details:

- User → Process 1.1: Enters login/signup details.
- Process 1.1 → User Database: Stores or retrieves credentials.
- User → Process 1.2: Requests product list.
- Process 1.2 → User: Displays products.
- User → Process 1.3: Adds/removes items from cart.
- Process 1.3 → Cart (State Management): Updates cart.
- User → Process 1.4: Initiates payment.
- Process 1.4 → Payment Database: Stores transaction details.
- Process 1.4 → User: Confirms order.