

DFD & Structured Chart

Levi – Smart Fast Food Billing System

1. DFD LEVEL 0 (Context Diagram)

External Entities:

- Admin
- Cashier
- Customer

Single Process:

- Levi – Fast Food Billing System

Data Flow:

- Admin → Food details, price updates, stock info
- System → Reports, inventory status
- Cashier → Order details, payment info
- System → Invoice, bill amount
- Customer → Order & payment
- System → Bill/receipt

Diagram:

[Admin] -----\

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[Cashier] ----> (Levi Billing System) ----> [Customer]

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[Reports] <-----/

2. DFD LEVEL 1 (Detailed Diagram)

Processes:

- 1. Authentication Process**
- 2. Food Management**
- 3. Order Processing**
- 4. Billing & Payment**
- 5. Inventory Management**
- 6. Report Generation**

Data Stores:

- D1: Food Database**
- D2: Order Database**
- D3: Payment Database**
- D4: Inventory Database**

Flow Explanation:

1 Authentication

- Admin/Cashier → Login credentials**
- System → Access granted/denied**

2 Food Management (Admin)

- Admin → Add/Update food**
- Food Database ← Food details**

3 Order Processing (Cashier)

- Cashier → Select food items**
- Order Database ← Order details**

4 Billing & Payment

- Order data → Billing process
- Payment details → Payment DB
- Invoice → Cashier / Customer

5 Inventory Management

- Order confirmed → Reduce stock
- Inventory DB updated

6 Reports

- Admin → Request report
- System → Fetch data from DB
- Report shown to Admin

Diagram

[Cashier] → (Order Processing) → [Order DB]



(Billing & Payment) → [Payment DB]



(Inventory Mgmt) → [Inventory DB]

[Admin] → (Food Management) → [Food DB]

[Admin] → (Report Generation) ← All DBs

3. STRUCTURE CHART

◆ Sub-Modules:

Levi Fast Food Billing System

