

Project Proposal

Chai-e-Banaras Cafés and Food Hub

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➤ Introduction:

Chai-e-Banaras Cafés and Food Hub is a digital café application that allows customers to browse a digital menu, add items to a cart, place orders, and receive instant bill generation. The system stores data securely in a MySQL database and reduces manual work.

➤ Problem Statement:

Manual café ordering causes delays, billing mistakes, and difficulty managing orders efficiently. Customers face slow service due to handwritten processes. A digital system is needed to automate ordering, store data securely, and generate accurate bills instantly.

➤ Objective:

- Provide a clean and easy-to-use digital menu.
- Simplify adding items to the cart.
- Generate accurate bills instantly.
- Store orders and menu data in SQL.
- Provide admin controls for menu management.
- Reduce manual café workload.

➤ **Project Category:**

Command Line Application

➤ **Modules and Description:**

- **Customer Menu View** – Display menu categories such as Tea, Snacks, Meals, Drinks.
- **Add to Cart System** – Add items with quantity.
- **Place Order** – Confirm and store order.
- **Bill Generation** – Auto bill through Java.
- **SQL Database Storage** – Orders, Items, Prices.

➤ **Admin Features** – Add/Update/Delete items.

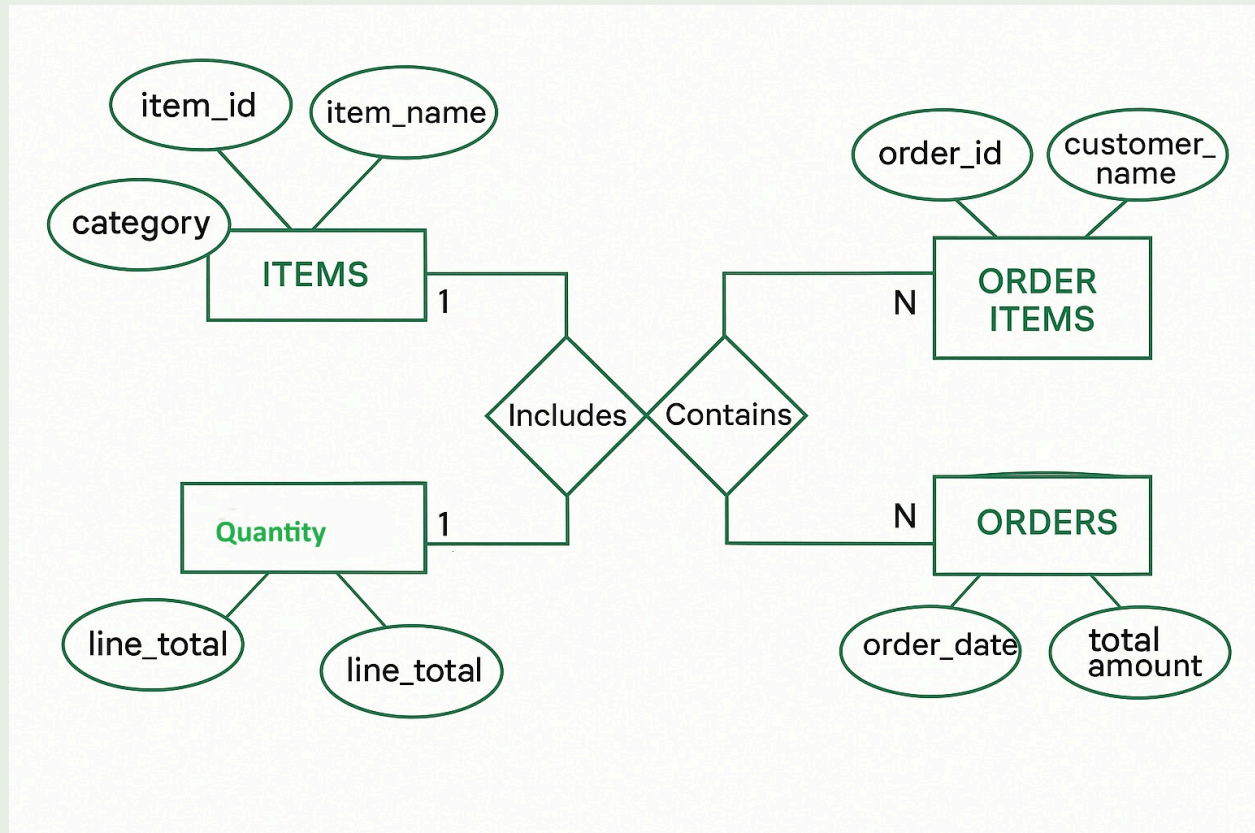
➤ **Database Design:**

➤ **Tables:**

- items
- orders
- order_details

➤ **ER Diagram:**

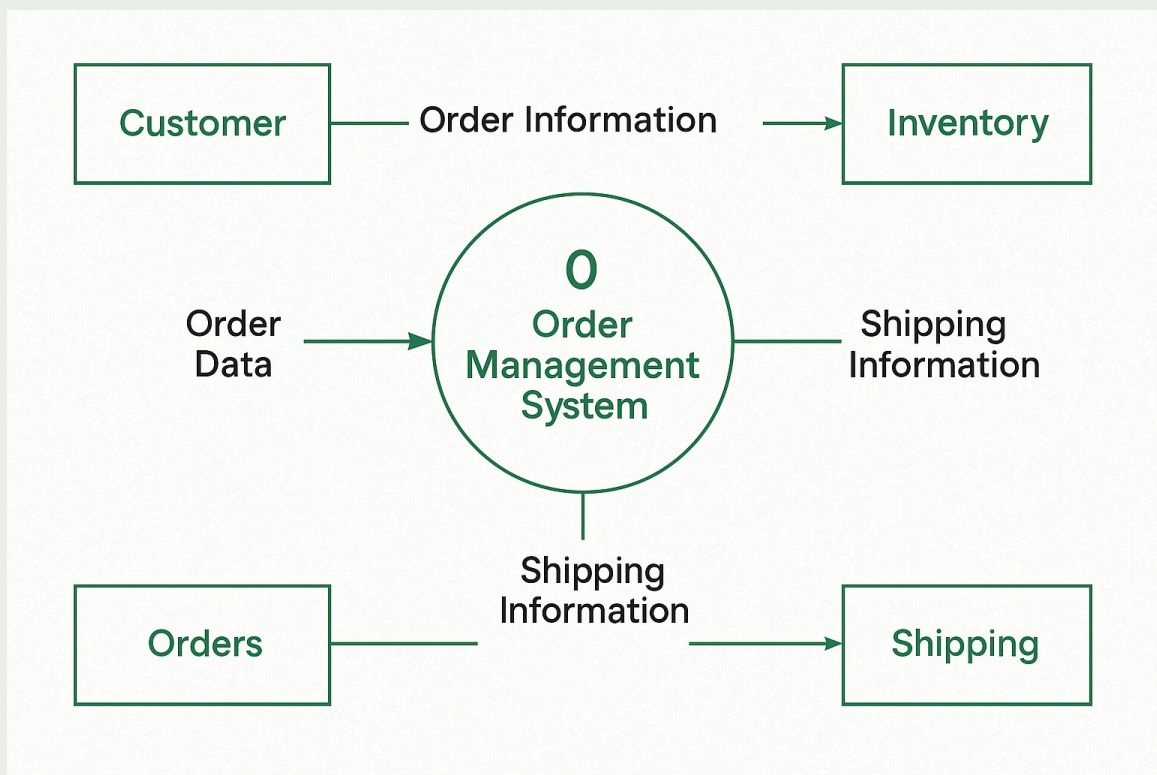
Items and Orders connected through Order_Details.



➤ Data Flow Diagram (DFD):

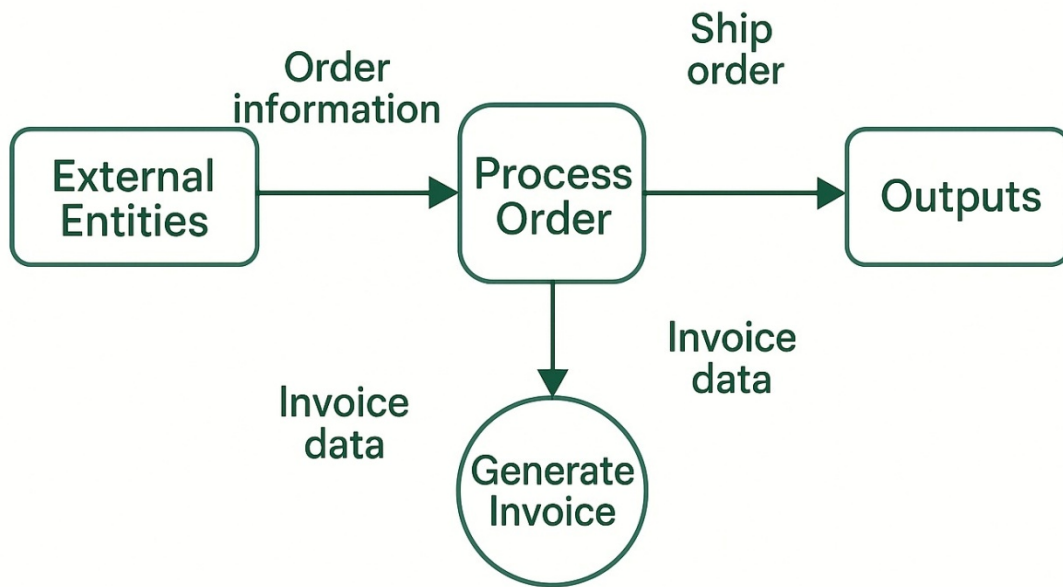
Customer → Menu → Cart → Order → Bill → Database

♣ DFD Level 0:



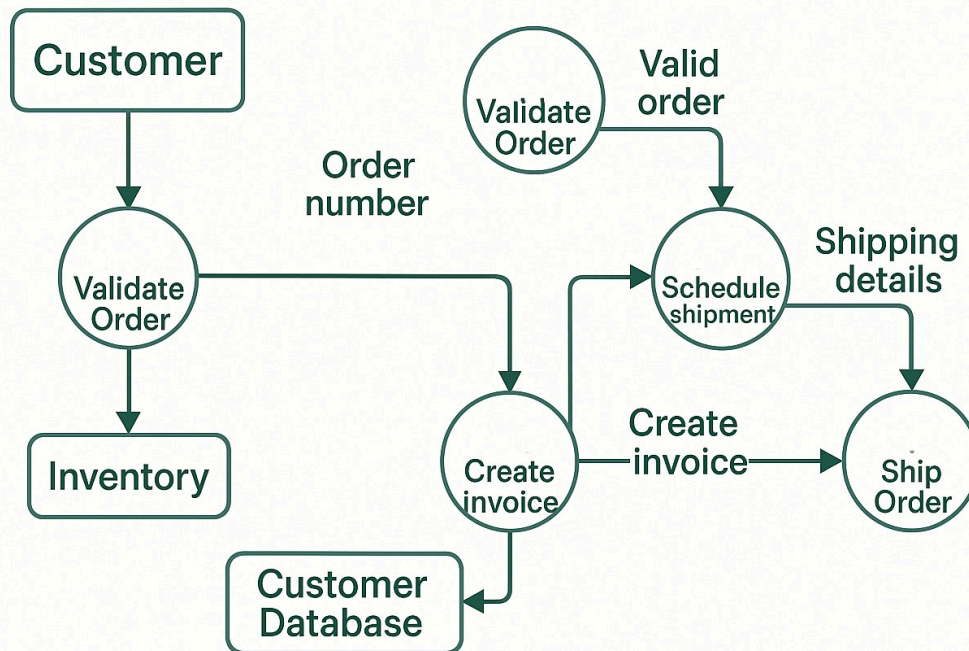
♣ DFD Level 1:

DFD Diagram: Level 1



♣ DFD Level 2:

DFD Diagram: Level 2



♣ Complete Structure:

- ♣ Show Menu
- ♣ Select Items
- ♣ Add to Cart
- ♣ Confirm Order
- ♣ Store in SQL
- ♣ Generate Bill

♣ Admin Control

➤ Platform Used:

➤ Hardware:

- ◆ i3/i5 or higher processor
- ◆ 4GB RAM

➤ Software:

- ◆ Java JDK
- ◆ MySQL
- ◆ JDBC
- ◆ NetBeans/IntelliJ/Eclipse
- ◆ Windows/Linux

♣ Future Scope:

- ❖ Mobile App
- ❖ QR Ordering
- ❖ Online Payment

❖ Sales Reports

❖ Inventory Management

➤ Bibliography:

- ❖ Java Documentation
- ❖ MySQL Documentation
- ❖ JDBC Tutorials
- ❖ GeeksforGeeks & W3Schools
- ❖ Provided Menu Images

