



Faculty of Engineering & Technology
Computer Science Department

Database Systems - COMP333
Project Phase 0-2
Coffee Shop System

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Phase 0:

Project Idea: Coffee Shop System.

Phase 1:

Project Scope

We would like to present to you our project, which is a directory of coffee shop. This database includes customer data, employee data, orders, managers, items and feedbacks. Next, create a coffee shop system so that clients may purchase the products.

Project Description

Our project is a coffee shop system. Saleh Hammouda one of our clients, owns a coffee shop called Hot Coffee. He has several things: milk check, Crepe dessert, Cappuccino, iced coffee, vanilla, hot chocolate ... etc. He also has an issue since, during the year, he makes every effort to know who or what he sells. We also chose to build a system with every product in the coffee shop for him because some customers are unable to access the coffee shop products. This way, customers can purchase anything by viewing the menu and ordering what they want and have it delivered to them.

Information about Client

Our customer's information is:

Name: Saleh Hammouda.

Phone Number: 0594050943.

Shop Name: Hot Coffee.

Technology

We will use Windows 10 and 11 as an operating system, the DBMS "MySQL" to create the database and java language.

Data Requirements

- Customers are identified by Customer ID, their names, phone number and table number. Each customer may have more than phone number.
- Orders are identified by Order number, it's time, quantity and description.
- Items are identified by Item ID, price, name and quantity.
- Feedback is identified by Feedback ID, quality, service, cleanness, and suggestions.
- Manager is identified by manager Id, name, phone number and address. Each manager may have more than phone number.
- Employees are identified by Job ID, date of birth, salary, phone number, address, name and gender. Each employee may have more than phone number.
- A customer can buy multiple orders, and an order can be sold to a single customer.
- Each order contains multiple items and there is no order without any items, and an item can be included in multiple orders.
- Orders may be taken by an employee, and Employees can take multiple orders.
- An item may be prepared by more than one employee. An employee can prepare more than one item.
- Customers may give much feedback, and feedback may be given by an individual customer.
- A customer can be served by a group of employees. Each employee serves a group of customers.
- An employee might have a manager. A manager manages many employees.

ERD Diagram:

