Muhammad Kashif (I21-0851)

Muhammad Huzaifa (I21-2460)

Section D

Database Systems

Café Management System



Submitted To: Mr. Bilal Khalid Dar

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## Functional Requirements and Features

## 1. Cafe Manager Module:

### Responsibilities:

- Oversee overall cafe operations.
- Plan menus and implement pricing strategies.
- Manage staff, including hiring, scheduling, and training.
- Handle inventory management and vendor relationships.
- Oversee financial management and reporting.
- Monitor customer satisfaction and service quality.

#### Functional Requirements:

- User-friendly dashboard for quick access to key metrics.
- Menu planning tools with options for pricing adjustments.
- Staff management features, including a schedule generator.
- Inventory tracking tools and automated reorder suggestions.
- Financial reporting tools for revenue, expenses, and profits.
- Customer feedback and satisfaction tracking.

## 2. Cashier Module:

## Responsibilities:

- Process customer payments efficiently.
- Manage cash and operate the cash register.
- Provide receipts and change to customers.

#### Functional Requirements:

- User-friendly interface for quick and accurate payment processing.
- Integration with payment gateways for card transactions.
- Cash management tools with the ability to reconcile at the end of shifts.
- Receipt generation and handling change calculations.

#### 3. Inventory Manager Module:

## Responsibilities:

- Manage inventory levels and orders.
- Track ingredient usage and waste.

• Conduct regular stock checks and reconcile discrepancies.

## Functional Requirements:

- Real-time inventory tracking with low-stock alerts.
- Automated order suggestions based on inventory levels.
- Tools for tracking ingredient usage and waste.
- Periodic stock check features with reconciliation options.

## 4. Menu Management Module:

## Responsibilities:

- Create and manage the cafe's menu.
- Include categories, items, descriptions, prices, and nutritional information.

#### Functional Requirements:

- Intuitive menu creation and editing tools.
- Option to categorize items and include detailed descriptions.
- Pricing management with the ability to set discounts or specials.
- Nutritional information tracking for menu transparency.

## 5. Order Management Module:

#### Responsibilities:

- Handle order placement, modification, and tracking.
- Provide status updates to customers.

## Functional Requirements:

- Streamlined order placement with customization options.
- Real-time order tracking for customers and staff.
- Tools for modifying orders and handling order cancellations.
- Automated status updates for customers.

## 6. Reporting and Analytics Module:

## Responsibilities:

- Generate reports on sales, revenue, inventory usage, and customer data.
- Analyse data for informed decision-making.

## Functional Requirements:

• Customizable reporting templates for various metrics.

- Real-time analytics tools for quick insights.
- Data visualization features for better interpretation.
- Export options for sharing reports with stakeholders.

# ERD

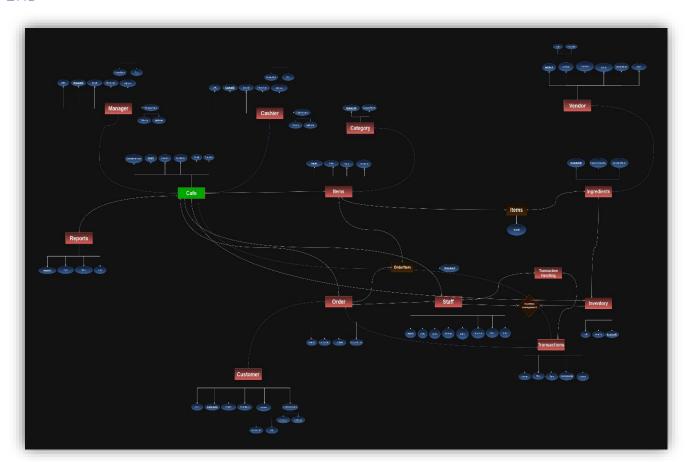


Figure 1 - ERD

# EERD

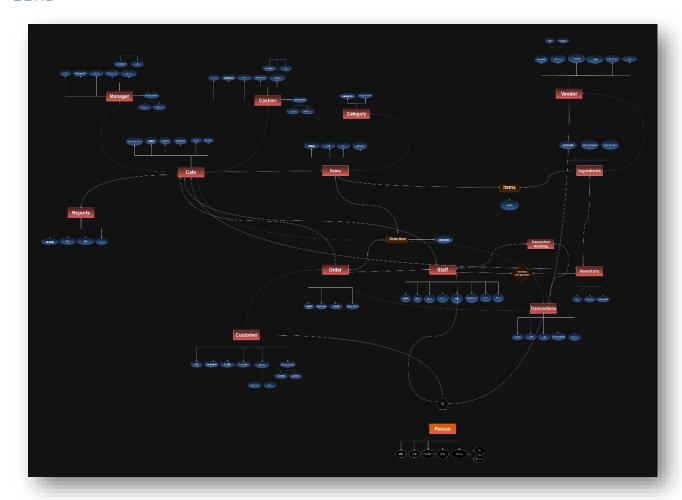
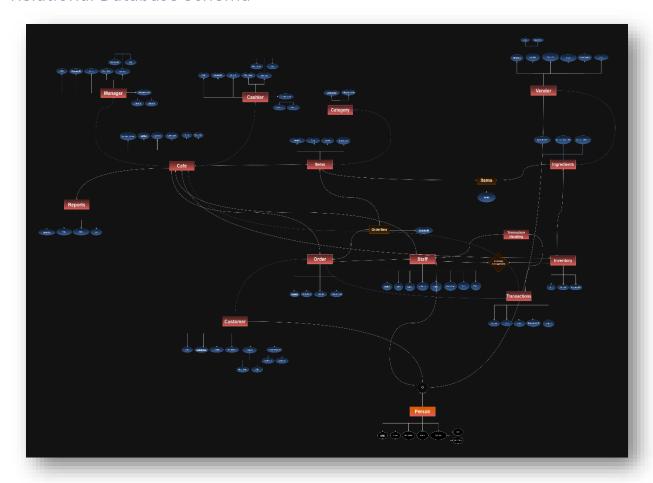


Figure 2 - EERD

## Relational Database Schema



# User Documentation and Help

## Customer

## 1. Registration:

- If you're a new customer, navigate to the registration form to create an account.
- Enter your details and click on the register button.

## 2. Login:

- Enter your registered email and password to log in.
- After successful login, you will be directed to the Dashboard.

## 3. Dashboard Operations:

## Place Order:

- Navigate to the "Place Order" section.
- Select items from the menu and customize your order.
- Confirm your order and proceed to payment.

#### Give Feedback:

• Share your experience by providing feedback.

- Rate the cafe's service on a scale of 1 to 5.
- Add comments if desired.

## Apply Loyalty Program:

- Explore the loyalty programs available.
- Apply relevant discounts or rewards during checkout.

#### Logout:

• Click the Logout button to safely exit the system.

## Cafe Manager

## 1. Registration:

- If you're a new cafe manager, register through the designated form.
- Fill in the required information and click on the register button.

#### 2. Login:

- Use your registered email and password to log into the system.
- Upon successful login, you'll be directed to the Dashboard.

#### 3. Dashboard Operations:

#### Register Staff:

- Access the "Register Staff" section to manage your team.
- Add, remove, update, or view staff members as needed.

#### Manage Menu:

- Navigate to the "Manage Menu" section.
- Add, remove, or view menu items.
- Implement pricing strategies and adjust menu configurations.

#### Manage Inventory:

- Access the "Manage Inventory" section for inventory-related tasks.
- Add, remove, or update items in the inventory.

#### View Orders:

Check and manage incoming orders from the "View Orders" section.

#### Logout:

• Safely exit the system by clicking the Logout button.

#### Cashier

#### 1. Registration:

- New cashiers can register using the provided form.
- Fill in the required information and click on the register button.

#### 2. Login:

• Use your registered email and password to log into the system.

• After successful login, you'll be directed to the Dashboard.

## 3. Dashboard Operations:

## POS Operations:

- Access the "POS" section to manage transactions.
- Add, remove, or delete transactions as necessary.

#### Order Summary:

• Review and manage the order summary for accurate billing.

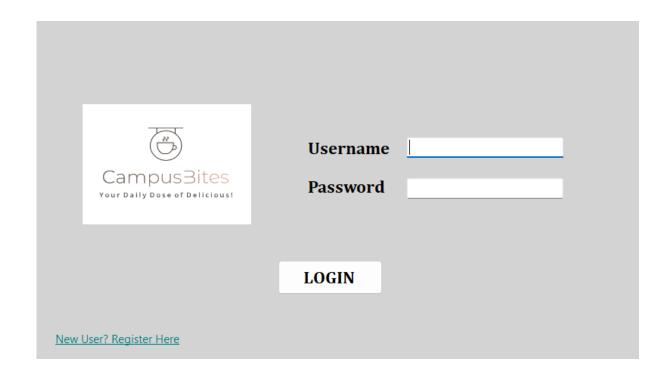
#### Generate Receipt:

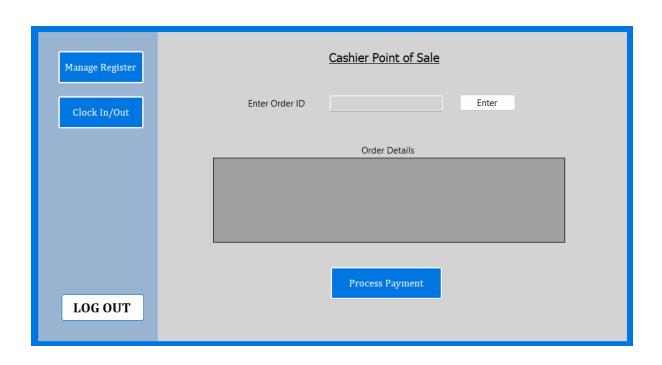
• In the "Generate Receipt" section, create and provide receipts for customer orders.

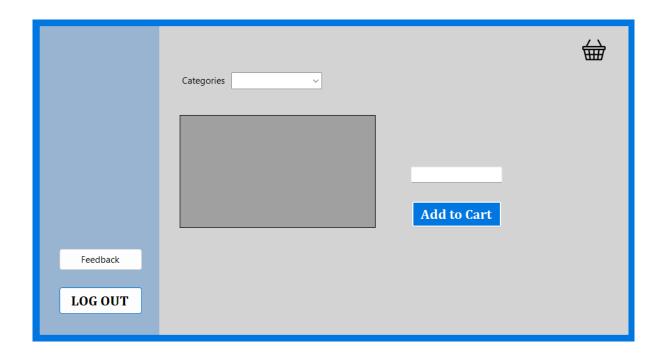
## Logout:

• Click the Logout button to securely exit the system

## Screenshots







Campus Bites Your Daily Dose of Delicious!	Firstname Lastname Email Username Password		CNIC Phone City Street House					
REGISTER  Already Registered? Login								

Manage Menu	<u>Cafe Manager Dashboard</u>						
Manage Staff		Sales					
		Revenue					
Manage Inventory		Month / Year			Submit		
Manage Finances	Monthly Reports						
Customer Satisfaction		Sales ID	Monthly Sales	Monthly Revenue	Time Peri		
	<b>&gt;</b>	1	50000	10000	Jan / 202:		
	2	2	55000	12000	Feb / 202		
	3	3	60000	13000	Mar / 202		
LOG OUT	Î				_		