**SYSTEM ARCHITECTURE DESIGN**

**FLASHFOOD RESTAURANT**

makes

Customer Name

Amount

Order\_ID

Customer Name

Payment

Payment\_ID

contains

Price

Item Name

Order\_ID

Item\_ID

Menu

serves

oversees

places

Payment\_ID

Item\_ID

Amount

Customer\_ID

Order\_ID

Order

Role

Order\_ID

Order\_ID

manages

Name

Name

Staff\_ID

Staff

Address

Manager\_ID

Manager

Customer

Address

Customer\_ID

Name

**ENTITY RELATIONSHIP DIAGRAM OF THE PROPOSED SYSTEM**

**FLASHFOOD RESTAURANT**

**IPO OF THE PROPOSED SYSTEM**

**FLASHFOOD RESTAURANT**

Database of the Proposed System

**STORAGE**

Store User Details in the Database

Add Selected Items to Cart

Validate and Save Order in System

Process and Prepare Food

Deliver Order to Dine-in Customers

Process Payment and Update Order Status

Track and Update Online Orders

Add, Update, or Remove Menu Items

Retrieve and Display Menu Items

Compile Sales, Orders, and Feedback Data

Account Successfully Created

Customers Order Placed in Cart

Order Successfully Placed

Order Ready for Serving

Customers Order Served

Customers Payment Confirmed

Orders Efficiently Handled

Menu Items Updated

Requested Menu Displayed

Reports Generated

User Registration Data

User Selects Items for Online Order

Order Confirmation Details

Kitchen Receives Order Details

Prepared Order Details

Customers Payment Details

Orders Pending Management

New or Updated Menu Items

User Request to View the Menu

Request for Business Reports

**OUTPUT**

**PROCESS**

**INPUT**

**CLASS DIAGRAM OF PROPOSED SYSTEM**

**FLASHFOOD RESTAURANT**

**Payment**

- paymentID: Int

- order: Order

- paymentMethod: String

- amountPaid: Float

- paymentDate: DateTime

+ processPayment()

+ refundPayment()

**MenuItem**

- itemID: Int

- name: String

- description: String

- price: Float

- availability: Bool

+ updatePrice()

+ changeAvailabilty()

- reservationID: Int

- customer: Customer

- restaurant: Restaurant

- reserveTime: DateTime

- numberOfGuest: Int

+ makeReservation()

+ cancelReservation()

- restaurantID: Int

- name: String

- location: String

- openingHours: String

- page: String

+ addMenuItem()

+ removeMenuItem()

+ updateMenuItem()

- staffID: Int

- name: String

- role: String

- email: String

+ prepareOrder()

+ updateOrderStatus()

+ generateReports()

+ register()

+ login()

+ logout()

+ assistCustomers()

+ serveOrder()

**Restaurant**

**Staff**

- customerID: Int

- name: String

- email: String

- password: String

+ viewMenu()

+ placeOrder()

+ updateProfile()

+ register()

+ login()

+ logout()

- reviewID: Int

- customer: Customer

-restaurant:Restaurant

- rating: Int

- comment: String

+ addReview()

+ updateReview()

**Review**

**Reservation**

- orderID: Int

- orderDate: Date

- customer: Customer

- items: List

- totalAmount: Float

- status: String

+ calculateTotal()

+ updateStatus()

+ addItem()

**Order**

- managerID: int

- name: string

- email: string

+ manageRestaurant()

+ manageStaff()

+ manageMenu()

+ manageReports()

+ register()

+ login()

+ logout()

**Manager**

**Customer**

**USE CASE DIAGRAM OF PROPOSED SYSTEM**

**FLASHFOOD RESTAURANT**

Create an Account

Generate Reports

Manage Menu

Manage Online Order

**CUSTOMERS**

**STAFF**

**MANAGER**

A group of women sitting at a table with food

AI-generated content may be incorrect.

A cartoon chef holding a platter

AI-generated content may be incorrect.

A cartoon of a child holding a computer

AI-generated content may be incorrect.

Payment

Serve Order

Prepare Order

Place Order

Online Order

View Menu

Login and Logout