***ANUDIP FOUNDATION***

A Project Report on

**RESTAURANT MANAGEMENT SYSTEM**

By

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RESTAURANT MANAGEMENT SYSTEM

Introducing our Java-based Restaurant Management System (RMS):

Efficiently oversee every aspect of your restaurant's operations with our intuitive system. From managing menu items and processing orders to handling reservations and gathering customer feedback, our RMS empowers you to streamline processes and deliver exceptional dining experiences.

**Entities:**

* Admin
* Staff
* Items
* Tables
* Customer
* Order
* Parcel
* Feedback
* Payment

**ATTRIBUTES OF ENTITIES:**

1. **Admin**

* Attributes:
* admin\_id (primary key)
* admin\_name
* admin\_Phone
* admin\_Email

1. **Staff**

* Attributes:
* staff\_id (primary key)
* staff\_name
* staff\_rating
* staff\_Email

1. **Items**

* Attributes:
* item\_id (primary key)
* category
* price
* Name
* Order\_count

1. **Customers**

* Attributes:
* customers\_id (primary key)
* customer\_name
* customer\_Phone

1. **Parcel**

* Attributes:
* Parcel\_id(primary key)
* item\_id (foreign key)
* customer\_id (foreign key)
* amount
* order\_id
* Time

1. **Orders**

* Attributes:
* order\_id (primary key)
* time
* amount
* customer\_id(fk)

1. **Tables**

* Attributes:
* Table\_number(primary key)
* Total\_people
* Time
* customer\_id (foreign key)
* item\_id (foreign key)
* order\_id (foreign key)

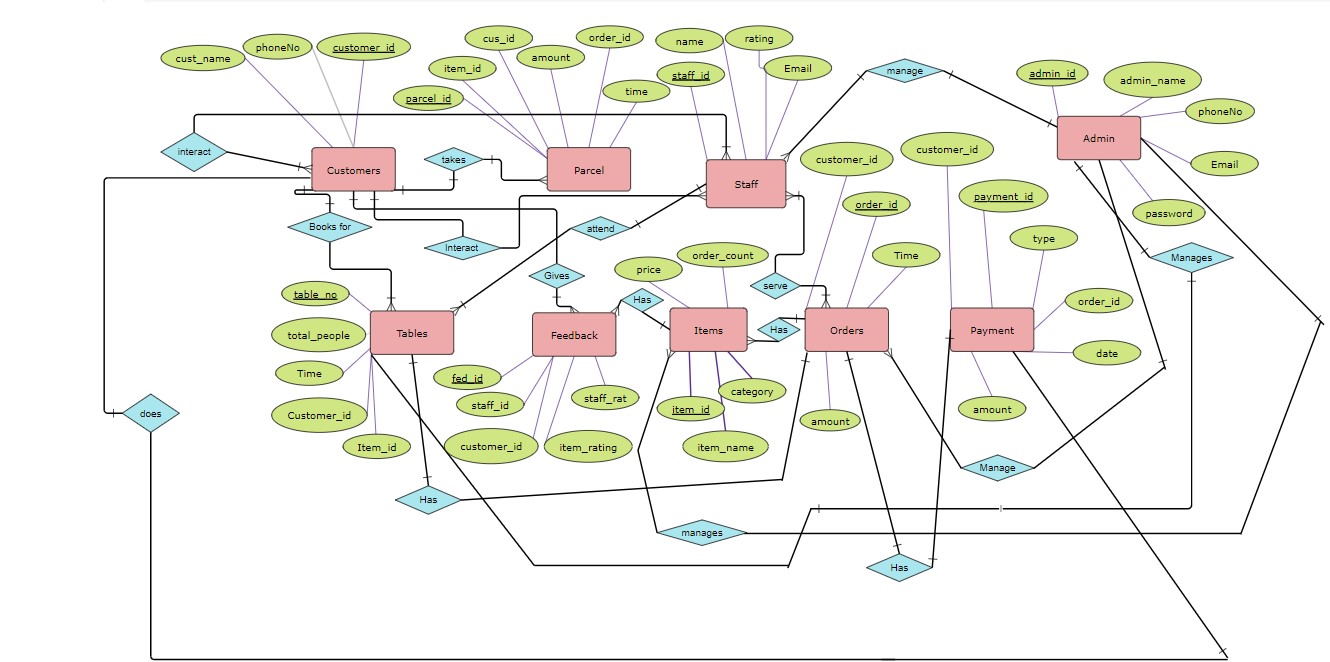
1. **Feedback**

* Attributes:
* feedback\_id(primary key)
* customer\_id (foreign key)
* staff\_rating
* staff\_id (foreign key)
* item\_rating

1. **Payment**

* Attributes:
* Payment\_id(primary key)
* Amount
* Payment\_type
* Customer\_id(foreign key)
* Order\_id(fk)
* Payment\_date

**ENTITY RELATIONSHIP DIAGRAM - RESTAURANT MANAGEMENT SYSTEM**



**CONCLUSION:**

In summary, a restaurant management system presents a comprehensive solution aimed at optimizing operations and enhancing the dining experience for both customers and staff. By consolidating data and streamlining administrative processes such as inventory management, staff scheduling, and order tracking, it significantly improves efficiency and accuracy within the restaurant environment. This system fosters better communication among restaurant personnel, leading to smoother workflow and ultimately elevating the quality of service provided to customers. Furthermore, by facilitating timely access to critical information such as menu items, customer preferences, and feedback, it empowers restaurant management to make informed decisions that positively impact business performance and customer satisfaction. Overall, a restaurant management system plays a vital role in modernizing restaurant operations, driving operational excellence, and delivering an enhanced dining experience to customers.

**DATABASE CREATION QUERY:**

**Query OK, 1 row affected (0.01 sec)**

**mysql> CREATE TABLE Admin (**

**-> admin\_id INT PRIMARY KEY,**

**-> admin\_name VARCHAR(255),**

**-> admin\_Phone VARCHAR(20),**

**-> admin\_Email VARCHAR(255)**

**-> );**

**mysql> CREATE TABLE Staff (**

**-> staff\_id INT PRIMARY KEY,**

**-> staff\_name VARCHAR(255),**

**-> staff\_rating INT,**

**-> staff\_Email VARCHAR(255)**

**-> );**

**Query OK, 0 rows affected (0.02 sec)**

**mysql> CREATE TABLE Items (**

**-> item\_id INT PRIMARY KEY,**

**-> category VARCHAR(255),**

**-> price DECIMAL(10, 2),**

**-> Name VARCHAR(255),**

**-> Order\_count INT**

**-> );**

**Query OK, 0 rows affected (0.01 sec)**

**mysql>**

**mysql> CREATE TABLE Customers (**

**-> customer\_id INT PRIMARY KEY,**

**-> customer\_name VARCHAR(255),**

**-> customer\_Phone VARCHAR(20),**

**-> customer\_email VARCHAR(255),**

**-> customer\_password VARCHAR(255)**

**-> );**

**Query OK, 0 rows affected (0.01 sec)**

**mysql> CREATE TABLE Parcel (**

**-> Parcel\_id INT PRIMARY KEY,**

**-> item\_id INT,**

**-> customer\_id INT,**

**-> amount DECIMAL(10, 2),**

**-> order\_id INT,**

**-> Time TIMESTAMP,**

**-> FOREIGN KEY (item\_id) REFERENCES Items(item\_id),**

**-> FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id)**

**-> );**

**Query OK, 0 rows affected (0.02 sec)**

**mysql> CREATE TABLE Orders(**

**-> order\_id INT PRIMARY KEY,**

**-> time TIMESTAMP,**

**-> amount DECIMAL(10, 2),**

**-> customer\_id INT,**

**-> FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id)**

**-> );**

**Query OK, 0 rows affected (0.04 sec)**

**mysql> CREATE TABLE Tables (**

**-> Table\_number INT PRIMARY KEY,**

**-> Total\_people INT,**

**-> Time TIMESTAMP,**

**-> customer\_id INT,**

**-> item\_id INT,**

**-> order\_id INT,**

**-> FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id),**

**-> FOREIGN KEY (item\_id) REFERENCES Items(item\_id),**

**-> FOREIGN KEY (order\_id) REFERENCES Orders(order\_id)**

**-> );**

**Query OK, 0 rows affected (0.04 sec)**

**mysql> CREATE TABLE feedback(feedback\_id INT NOT NULL PRIMARY KEY,**

**-> Staff\_rating INT,**

**-> customer\_id INT,**

**-> staff\_id INT,**

**-> item\_rating VARCHAR(255),**

**-> FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id),**

**-> FOREIGN KEY (staff\_id) REFERENCES staff(staff\_id)**

**-> );**

**Query OK, 0 rows affected (0.05 sec)**

**mysql> CREATE TABLE payment (**

**-> payment\_id INT PRIMARY KEY AUTO\_INCREMENT,**

**-> payment\_type VARCHAR(50) NOT NULL,**

**-> amount DECIMAL(10, 2) NOT NULL,**

**-> customer\_id INT,**

**-> FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)**

**-> );**

**Query OK, 0 rows affected (0.05 sec)**

**mysql> show tables;**

**+----------------------------------------+**

**| Tables\_in\_restaurant\_management\_system |**

**+----------------------------------------+**

**| admin |**

**| customers |**

**| feedback |**

**| items |**

**| orders |**

**| parcel |**

**| payment |**

**| staff |**

**| tables |**

**+----------------------------------------+**

**9 rows in set (0.00 sec)**