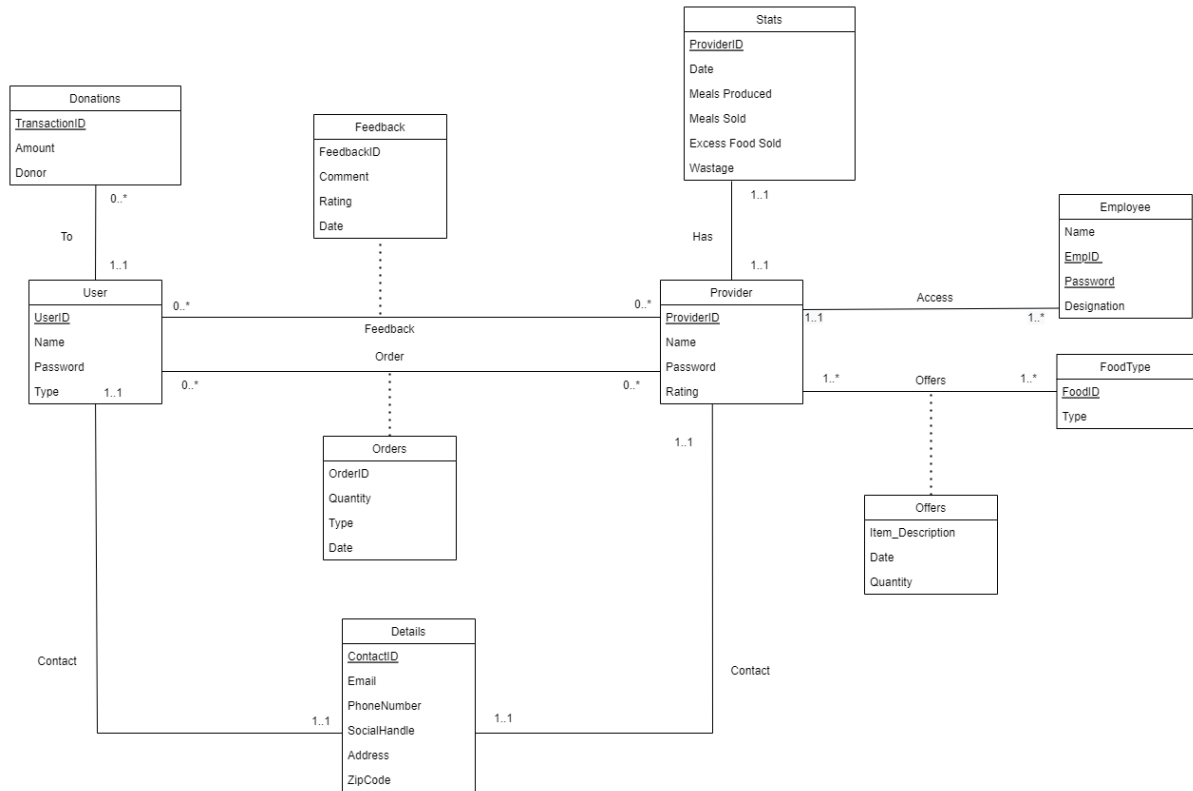


Stage 2: Conceptual and Logical Database Design

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UML Diagram



Assumptions

Relationship Assumptions:

1. A User can receive multiple donations, but a donation made to a single user.
2. A User can have exactly one Contact Detail, and contact detail is associated with exactly one user.
3. A Food Provider can have exactly one Contact Detail, and the contact detail is associated with exactly Food Provider.
4. A user can give multiple feedback to a Food Provider, and a Food provider can receive multiple feedback from a user.
5. A user can place multiple orders with a Food Provider, and a Food provider can receive multiple orders from a user.
6. A Food Provider has access to one or more employee accounts, but an employee only has access to one Food Provider's account.
7. A Food Provider offers at least one Type of Food, and a Type of food is offered by at least one Food Provider.
8. A Food Provider has exactly one Statistics report, and a Statistics Report is associated with exactly one Food Provider.

Other Assumptions:

1. Only NGOs can receive donations.

Relationship Schema

Provider(

ProviderID : VARCHAR(255) [PK],
Name : VARCHAR(255) ,
ContactID : VARCHAR(255) [FK to Details.ContactID],
Password : VARCHAR(255) NOT NULL,
Rating : INT

)

Details(

ContactID : VARCHAR(255), [PK]
Email : VARCHAR(255),
PhoneNumber : VARCHAR(255), NOT NULL,
SocialHandle : VARCHAR(255),
Address : VARCHAR(255), NOT NULL,
ZipCode : INT

)

User(

UserID : VARCHAR(255) [PK],
Name : VARCHAR(255) NOT NULL
Password : VARCHAR(255) NOT NULL
Type : VARCHAR(255) INT NOT NULL
ContactID : VARCHAR(255) [FK to Details.ContactID]

)

Stats(

ProviderID : VARCHAR(255) [PK]
[FK to Provider.ProviderID],
Date : DATE NOT NULL [PK],
MealsProduced : INT,
MealsSold : INT,
ExcessFoodSold : INT,
Wastage : INT

)

Donations(

TransactionID : VARCHAR(255) [PK],
ReceiverID : VARCHAR(255) [FK to User.UserID],
Amount : REAL,

```

        Donor                : VARCHAR(255)
    )
    FoodType(
        FoodID                : VARCHAR (255)  [PK],
        Type                  : VARCHAR(255)
    )

    Offers(
        ProviderID            : VARCHAR (255)  [PK]
                                [FK to Provider.ProviderId],
        FoodID                : VARCHAR (255)  [PK]
                                [FK to FoodType(FoodID)],
        Item_Description       : VARCHAR(255),
        Date                  : DATE [PK],
        Quantity              : INT
    )

    Orders(
        OrderID               : VARCHAR(255)  [PK],
        UserId                : VARCHAR(255)  [FK to User(UserID),
        Food_ID               : VARCHAR(255)  [FK to Type(Food_ID)],
        Quantity              : INT,
        Date                  : DATE,
    )

    Employee(
        EmpID                 : VARCHAR(255)  [PK]
        ProviderID            : VARCHAR(255)  [PK],
                                [FK to Provider.ProviderID]
        Name                   : VARCHAR(255)
        Designation            : VARCHAR(255)
    )

    Feedback(
        UserId                : VARCHAR(255)  [FK to User(UserId)],
        ProviderID            : VARCHAR(255)  [FK to Provider(ProviderId)],
        Comment               : VARCHAR(255),
        Rating                : INT,
        Date                  : DATE
    )

```