Github repo: https://github.com/Sanjida-42/order_stream

Database Design (MongoDB) for OrderStream

Collections & Fields

1. Users
```
{
  "_id": ObjectId,
  "name": String,
  "email": String,
  "password": String,   // hashed
  "phone": String,
  "address": String,
  "role": String,       // customer, admin, staff
  "createdAt": Date,
  "updatedAt": Date
}
```

2. MenuItems

```
{
  "_id": ObjectId,
  "name": String,
  "description": String,
  "category": String,   // e.g., starter, main, drinks
  "price": Number,
  "imageUrl": String,
  "rating": Number,
  "createdAt": Date,
  "updatedAt": Date
}
```

3. Orders

```
{
  "_id": ObjectId,
  "userId": ObjectId,        // reference Users
  "items": [
    {
      "menuItemId": ObjectId,
      "quantity": Number,
```

```
    "price": Number
   }
 ],
 "totalPrice": Number,
 "status": String,          // pending, preparing, ready, delivered
 "paymentStatus": String,    // paid, unpaid
 "createdAt": Date,
 "updatedAt": Date
}
```

4. Reviews

```
{
 "_id": ObjectId,
 "userId": ObjectId,
 "menuItemId": ObjectId,
 "rating": Number,
 "comment": String,
 "createdAt": Date
}
```

5. Categories (dynamic categories

```
{
 "_id": ObjectId,
 "name": String,
 "description": String
}
```

6. Coupons/Promo Codes

```
{
 "_id": ObjectId,
 "code": String,
 "discountPercent": Number,
 "validTill": Date,
 "minOrderAmount": Number
}
```

Data Flow Diagram (DFD)

```
                        ┌──────────────┐
                        │   Customer   │
                        └──────────────┘
              Place Order    View Menu / Track Order    Payment Info    Order Status / Menu

                                              ┌──────────────────┐
                                              │  PaymentGateway  │
                                              └──────────────────┘

                                                  Payment Status

                        ┌──────────────┐
                        │  OrderStream │
                        └──────────────┘

        Order Details / Customer      Manage Menu / Update      Store/Retrieve Data
        Info                          Orders

                ┌──────────┐                          ┌──────────┐
                │  Admin   │                          │ MongoDB  │
                └──────────┘                          └──────────┘
```