Cairo University

Faculty of Computers and Artificial Intelligence

Database Systems-1

Phase 2
Project: Food Ordering System Project

Entity Relation Diagram

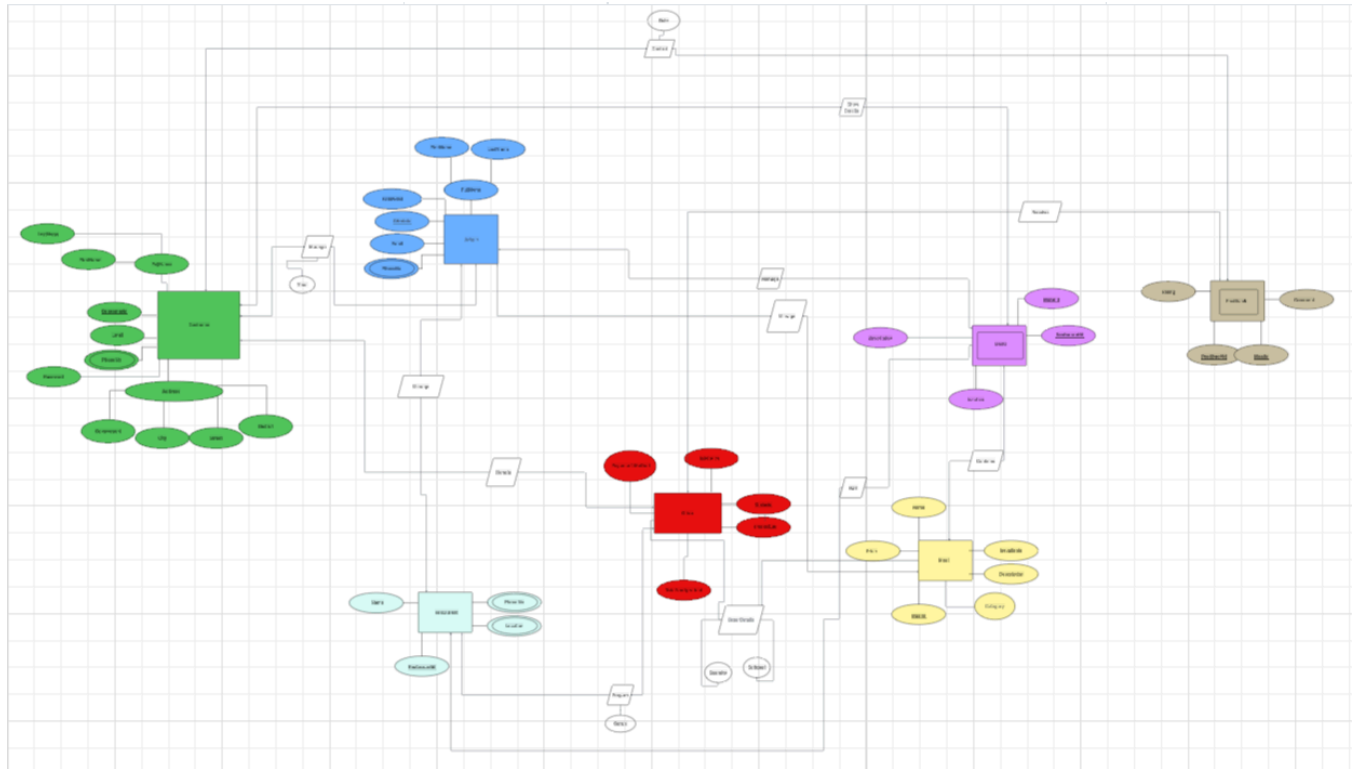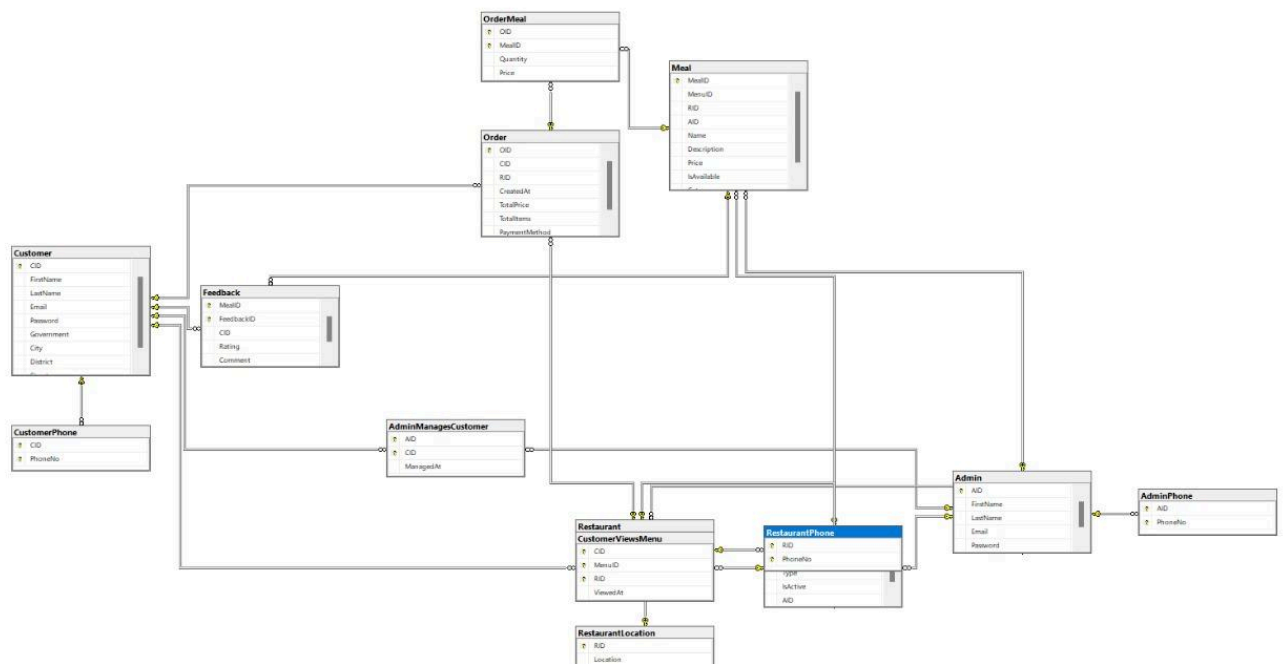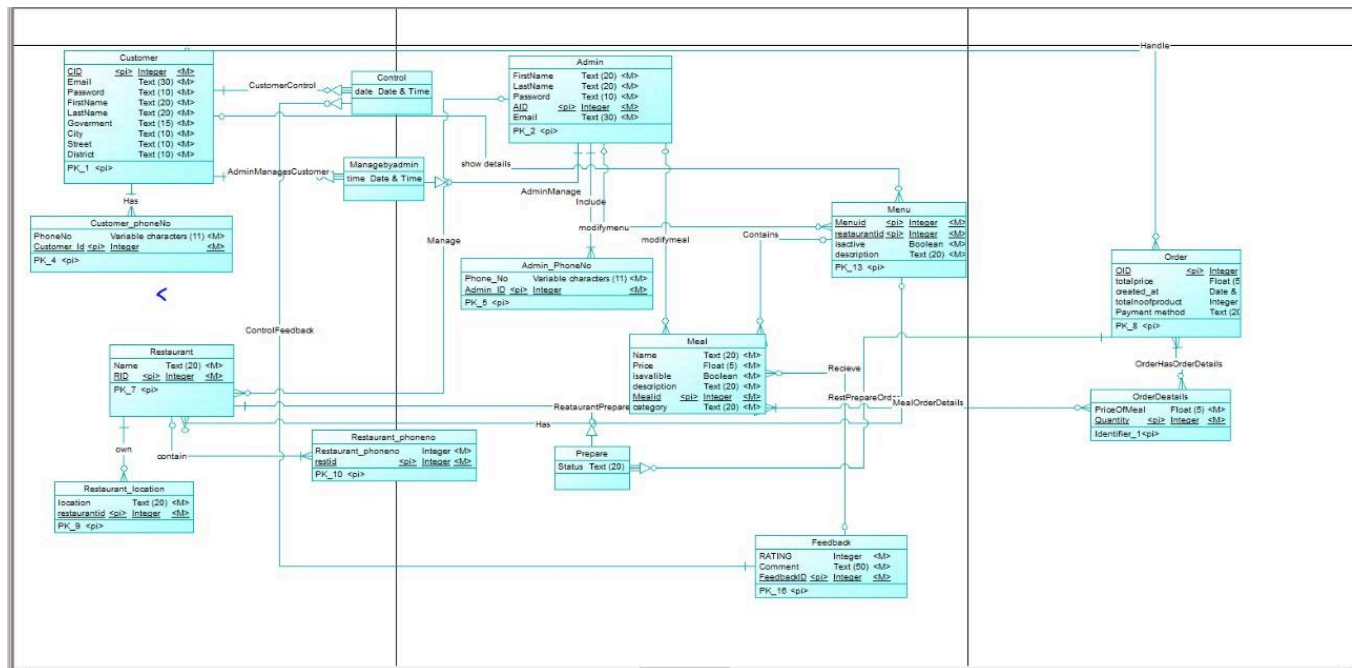## Contents

1-ERD:

Link: ⤴ Lucidchart

Conceptual:

Physical:

Customer
CID	<pi> Integer <M>
Email	Text (30) <M>
Password	Text (10) <M>
FirstName	Text (20) <M>
LastName	Text (20) <M>
Goverment	Text (15) <M>
City	Text (10) <M>
Street	Text (10) <M>
District	Text (10) <M>
PK_1 <pi>	

Control
| date | Date & Time |

CustomerControl

Admin
FirstName	Text (20) <M>
LastName	Text (20) <M>
Password	Text (10) <M>
AID	<pi> Integer <M>
Email	Text (30) <M>
PK_2 <pi>	

Handle

AdminManagesCustomer

Managebyadmin
| time | Date & Time |

AdminManage

show details

Include

Menu
Menuid	<pi> Integer <M>
restaurantid	<pi> Integer <M>
isactive	Boolean <M>
description	Text (20) <M>
PK_13 <pi>	

Has

Customer_phoneNo
PhoneNo	Variable characters (11) <M>
Customer_Id	<pi> Integer <M>
PK_4 <pi>	

Manage

modifymenu

modifymeal

Contains

Order
OID	<pi> Integer
totalprice	Float (5)
created_at	Date &
totalnoofproduct	Integer
Payment method	Text (20)
PK_8 <pi>	

<

ControlFeedback

Admin_PhoneNo
Phone_No	Variable characters (11) <M>
Admin_ID <pi>	Integer <M>
PK_5 <pi>	

Meal
Name	Text (20) <M>
Price	Float (5) <M>
isavalible	Boolean <M>
description	Text (20) <M>
Mealid	<pi> Integer <M>
category	Text (20) <M>

Recieve

OrderHasOrderDetails

Restaurant
Name	Text (20) <M>
RID	<pi> Integer <M>
PK_7 <pi>	

RestaurantPrepare

Has

RestPrepareOrder

MealOrderDetails

OrderDetails
PriceOfMeal	Float (5) <M>
Quantity	<pi> Integer <M>
Identifier_1<pi>	

own

contain

Restaurant_phoneno
Restaurant_phoneno	Integer <M>
restid	<pi> Integer <M>
PK_10 <pi>	

Prepare
| Status | Text (20) |

Restaurant_location
location	Text (20) <M>
restaurantid	<pi> Integer <M>
PK_9 <pi>	

Feedback
RATING	Integer <M>
Comment	Text (50) <M>
FeedbackID <pi>	Integer <M>
PK_16 <pi>	

2-Requirements:

Functional Requirements:

1. **Customer** can manage his account
   - sign up to a new account
   - update his details
   - remove his account
2. **Customer** can handle his orders
   - book multiple orders
   - cancel multiple orders
   - track their order
   - check their order status
   - select to show bill of multiple orders
3. **Customer** can search for multiple meals
   - by their Name
   - by their Price
   - by their Category
4. **Customer** can control multiple feedbacks
   - delete multiple feedbacks
   - change multiple feedbacks
   - add multiple feedback
5. **Customer** can show menu details
6. **Admin** can manage customer related functions as :
   - create multiple new accounts for multiple new customers
   - update user details for multiple customers
   - delete accounts for multiple customers
7. **Admin** can manage menus (contains meals)
   - Show menu details
   - edit multiple menus:
     - add multiple meals to menu
     - delete multiple meals from menu
8. **Admin** can manage meals
   - update multiple meal details
   - Search for a meal
9. **Admin** can manage restaurants
   - add multiple restaurants
   - modify multiple restaurants
   - delete multiple restaurants
10. **Menu** can contain multiple meals
11. Multiple **Menu**s can be displayed to admin
12. **Order** can be paid with only one payment method at a time but customer can choose from several payment methods
13. **Order** can have multiple order details
14. **Order** is delivered by one delivery Associate
15. **Restaurant** can prepare multiple orders
16. **Restaurant** has a menu
17. Every **Meal** has a feedback

18. Every **Order** has orderdetails that contains quantity of each **Meal** ordered and price too