Department of Computer Science

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**CSC371**

**Database Systems 1**

**<Food Delivery System>**

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Contents

[CHAPTER 1 – Mission Statement and Objectives 3](#_Toc103671454)

[Mission Statement 3](#_Toc103671455)

[Mission objectives 4](#_Toc103671456)

[Ali FA20-BSE-001- Branches Module 4](#_Toc103671457)

[Yasin FA20-BSE-001- Staff and Clients Management 5](#_Toc103671458)

[CHAPTER 2 – System Definition 6](#_Toc103671459)

[User Views 6](#_Toc103671460)

[Examples 6](#_Toc103671461)

[Major user views for the DreamHome 6](#_Toc103671462)

[Systems boundary for the DreamHome 8](#_Toc103671463)

[CHAPTER 3 – Conceptual Database Design 9](#_Toc103671464)

[ER Diagram 9](#_Toc103671465)

[EER Diagram 9](#_Toc103671466)

[CHAPTER 4 – Application Design 10](#_Toc103671467)

[User Interface 10](#_Toc103671468)

[User Interface Design Guidelines 10](#_Toc103671469)

[References with Pros and Cons: 10](#_Toc103671470)

# CHAPTER 1 – Mission Statement and Objectives

## Mission Statement

The purpose of home delivery system is to deliver food to customers and order food for the customers by the system and customer can give order by their choice. They will have their food delivered to them by the drivers and drivers can be set.

## Mission objectives

*Once the mission statement is defined, the next activity involves identifying the mission objectives. Each mission objective should identify a particular task that the database system must support.*

Mission objectives (for DreamHome)



Additionally for your semester project, Every group member will have to explicitly mentioned their identified mission objectives of the assigned module as below:

### Zeeshan Ahmad FA20-BSE-016- Customer

* To maintain profile.
* To maintain order.
* To perform searches on foods.
* To perform searches on price.
* To track the status of food.
* To track the status of driver location.
* To report on food.
* To report on driver.
* To report on order.

# CHAPTER 2 – System Definition

## User Views

*Defines what is required of a database system from the perspective of a particular job role (such as Manager or Supervisor) or enterprise application area (such as marketing, personnel, or stock control).*

*A database system may have one or more user views. Identifying user views is an important aspect of developing a database system because it helps to ensure that no major users of the database are forgotten when developing the requirements for the new database system.*

*A user view defines what is required of a database system in terms of the data to be held and the transactions to be performed on the data*

*For your semester project you will have to:*

* *Provide the description of major user views (includes job roles or business application areas)*
* *Define the scope and boundary of database application; definition of user views to be supported*

## Examples

### Major user views for the DreamHome

The majority of data about the user views was collected during interviews with the Director and members of staff in the role of Manager, Supervisor, and Assistant.



*For further details on each role and respective requirements follow Textbook 10.4.4 section.*

## Systems boundary for the DreamHome



As per above diagram DreamHome will have four major modules:

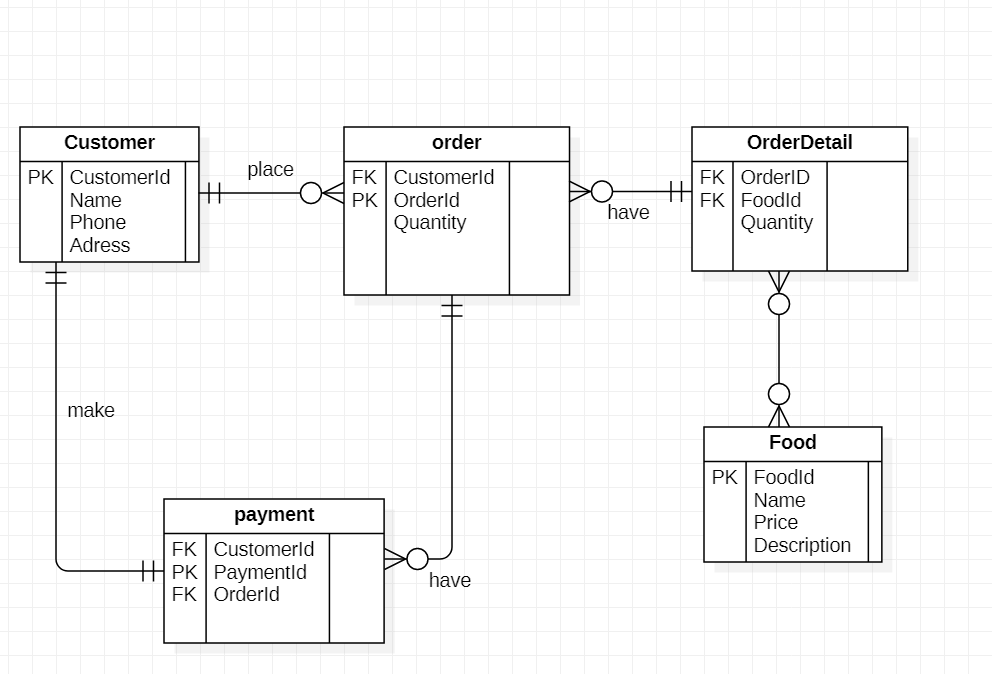
1. Property Rentals
2. Staff
3. Property Advertising
4. Customer Services

# CHAPTER 3 – Conceptual Database Design

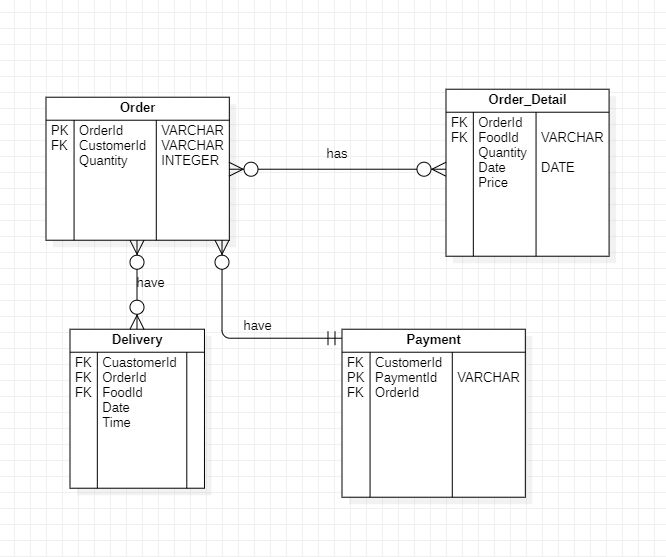
## ER Diagram

Paste the ER Diagram of your semester project here

### Zeeshan Ahmad FA20-BSE-016- Customer



### Muhammad Hammad FA20-BSE-031- Order

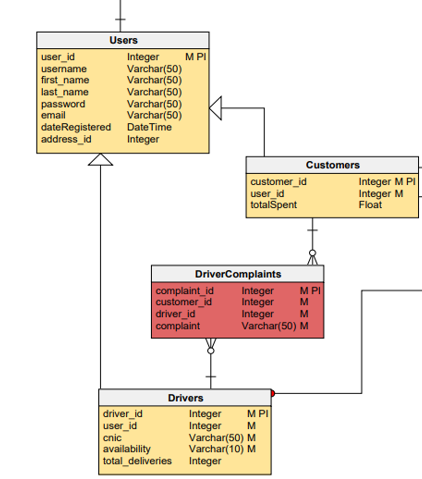


### **Sadat Mumtaz khan FA20-BSE-011- Driver**

Diagram

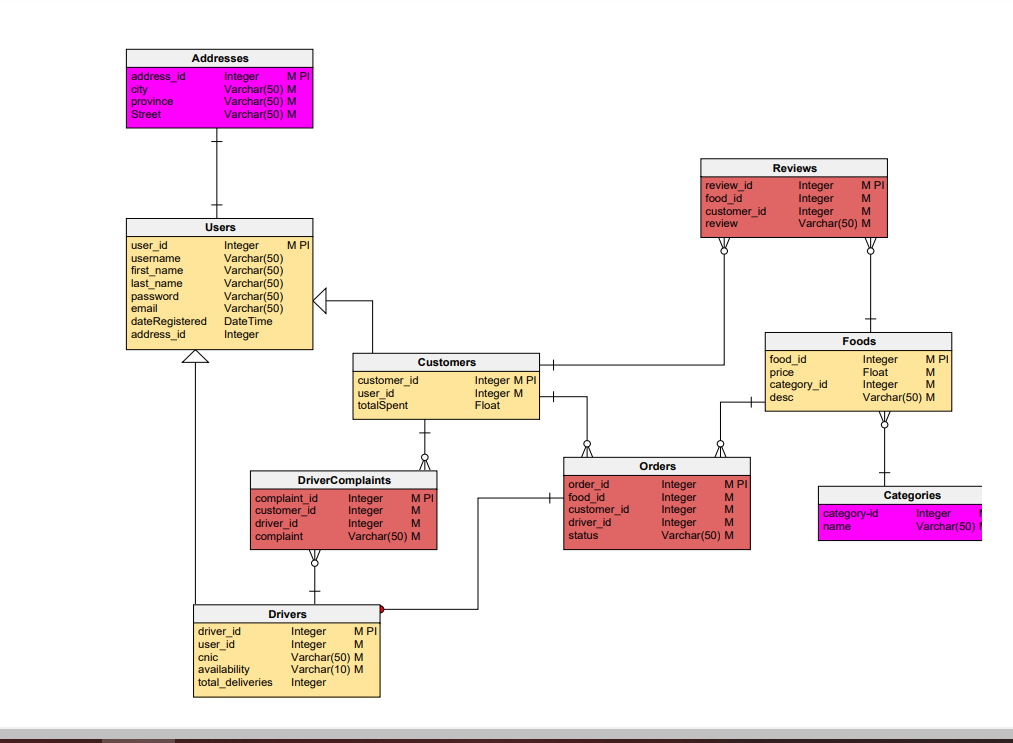
Description automatically generated

### **Nabil FA20-BSE-011- Login and Registration/user handle**



## EER Diagram

Paste the ER Diagram of your semester project here



# CHAPTER 4 – Application Design

This chapter should cover the prototype of your semester project as per the following section:

## User Interface

Step 1: Familiarize yourself to application designing.

### User Interface Design Guidelines

1. Meaningful title
2. Comprehensible instructions
3. Logical grouping and sequencing of fields
4. Visually appealing layout of the form/report
5. Familiar field labels
6. Consistent terminology and abbreviations
7. Consistent use of color
8. Visible space and boundaries for data-entry fields
9. Convenient cursor movement
10. Error correction for individual characters and entire fields
11. Error messages for unacceptable values
12. Optional fields marked clearly
13. Explanatory messages for fields
14. Completion signal

Step 2: Comparative analysis of user interfaces

In this part you need to find at least five similar systems to your

semester project and comment on good and bad points in their interface designs.

### References with Pros and Cons:

System 1: <https://www.supermeal.pk/>

Pros: It tracks users’ location

Cons: It does not list down all food items on its landing page

System 2:<https://www.careem.com/en-ae/careem-now/>

Pros: different food ordering sections for different types of users

Cons: unnecessary information

System 3:<https://www.zomato.com/>

Pros: user can easily search for restaurant, cuisine or a dish

Cons: This website does not trace users’ location automatically

System 4: <https://www.cheetay.pk/>

Pros: different sections for ordering food, groceries, medicines etc.

Cons: Ambiguous information on the landing page.

System 5:<https://www.dominos.com/index.intl.html>

Pros: This website has a lot of options on its interface e.g. It asks users whether they are starting their order by delivery or carryout.

Cons: This website has also listed down the countries names in which their services are not available

….

Step 3: Choose navigational system for your project, such that access of every screen is clear from the home/default screen.

1. Make sure on every screen user knows how to go back to home
2. Make sure he knows the hierarchy of the opening screen i.e. breadcrumbs

Step 3: What information would you like to show to the user on First screen. Every group member will have to contribute the relevant information into the home screen and justify the reason.

**Task** is to give a demo of the Non-Functional Prototype (Based on Viva)

# CHAPTER 5 – Logical Database Design

Identification of General Constraints

To be modified soon …

# CHAPTER 6 – Physical Database Design

## Project SQL Script File - Version 1

Provide a link to your cloud storage .sql script file here, which should do the following:

1. Create Database if not exist
2. Create all tables in your project along with primary and foreign keys
   * Note: Every group member should create their own tables in the file along with registration and name on top in comments
3. Feed Sample data to all tables.
   * Note: Every group member should feed sample realistic data in respective tables in the file along with registration and name on top in comments
4. What was the difficult part in creating this assignment?
   * Every group member should define their own area.
5. Generate information from your table by relating them to tables of other group members as well. You will have to write at least 5 meaningful simple, average and complex queries
   * Every group member should define their own area.

# CHAPTER 7 – Common Reports

* Common Reports