CAFETERIA SYSTEM

Team Members:-

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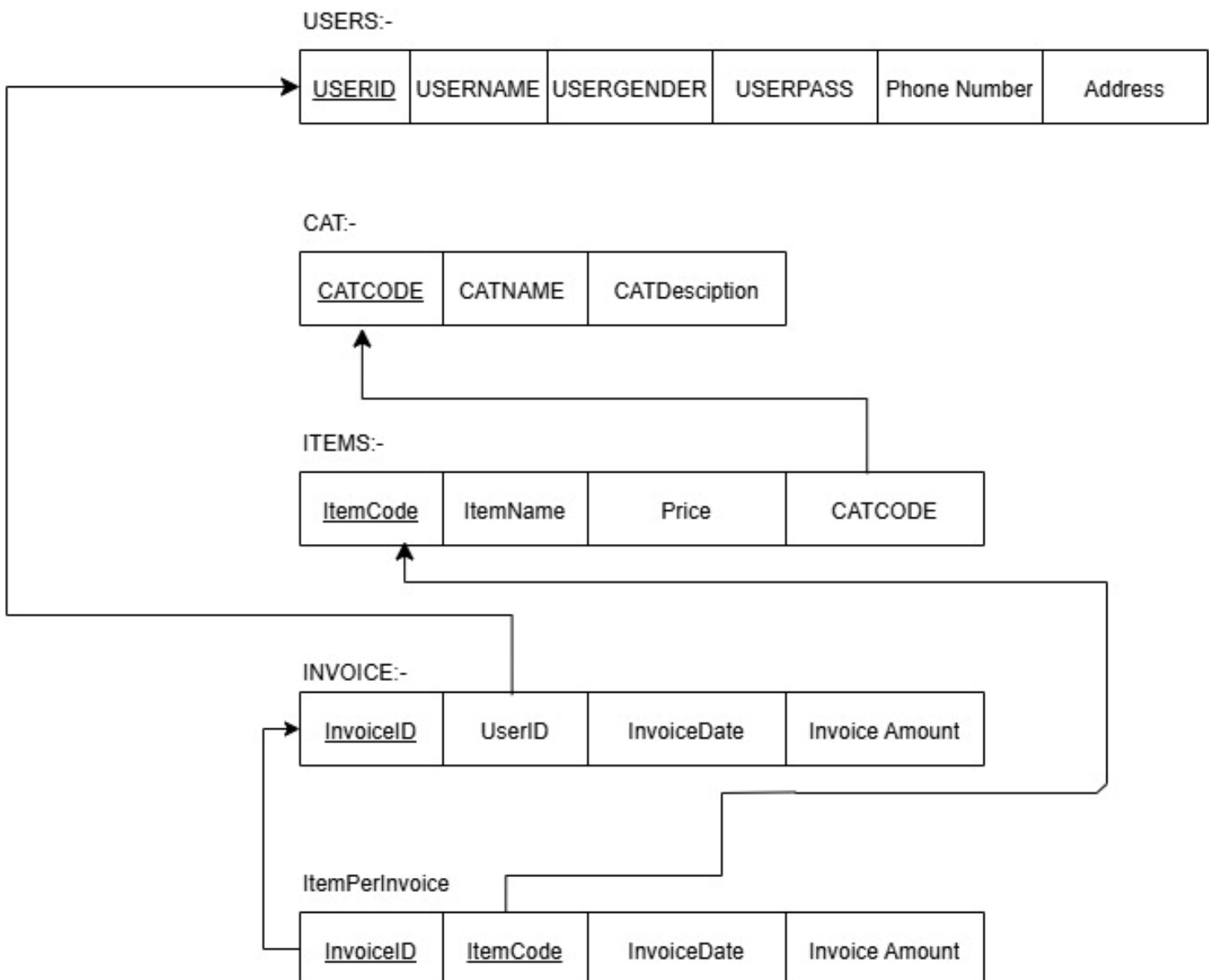Yousef Ebada El Said - 324243492@sha.edu.eg -14B
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1. Cafeteria management system

- This system is responsible for managing users and prices in the cafeteria while giving authorization for the manager or employees with different account types.
- The manager can add items , edit them and adjust their prices or remove them completely , it also give them the ability to categorizes this items for better management, in addition to giving them the right to add a new user which can be a normal employee or another manager or partner, he can also see the history of the invoices for better analysis to the business.
- On the other hand, Employees can only make invoices with the items that the manager already added with the prices that the manager specified.

2. Schema

USERS:-

USERID	USERNAME	USERGENDER	USERPASS	Phone Number	Address

CAT:-

CATCODE	CATNAME	CATDesciption

ITEMS:-

ItemCode	ItemName	Price	CATCODE

INVOICE:-

InvoiceID	UserID	InvoiceDate	Invoice Amount

ItemPerInvoice

InvoiceID	ItemCode	InvoiceDate	Invoice Amount

3. Current SQL Commands Used

```
1. Create database CafeteriaDB
2. GO
3. USE CafeteriaDB
4. GO
5. CREATE TABLE Users(
6. UserID int primary key IDENTITY(1,1) NOT NULL,
7. UserName varchar(50) NOT NULL,
8. UserGender varchar(6) NOT NULL,
9. UserPass varchar(25) NOT NULL,
10.     UserPhone varchar(15) NULL unique,
11.     UserAddress varchar(150) NOT NULL,
12.     isAdmin bit Not Null
13.     )
14.     Go
15.     CREATE TABLE Cat(
16.     CatCode int primary key IDENTITY(1,1) NOT NULL,
17.     CatName varchar(50) unique NOT NULL,
18.     CatDesc varchar(100) NULL,
19.     )
20.     GO
21.     CREATE TABLE Item(
22.     ItemCode int primary key IDENTITY(1,1) NOT NULL,
23.     ItemName varchar(50) NOT NULL,
24.     ItemPrice money NOT NULL,
25.     ItemCat int NOT NULL foreign key references Cat(CatCode)
26.     on delete cascade on update cascade
27.     )
28.     GO
29.     CREATE TABLE Invoice(
30.     InvoiceID int primary key IDENTITY(1,1) NOT NULL,
31.     UserID int foreign key references Users(UserID)
32.     on delete cascade on update cascade,
33.     InvoiceDate date NOT NULL default getdate(),
34.     InvoiceAmount int NOT NULL,
35.     )
36.     GO
37.     Create Table ItemPerInvoice(
38.     itemCode int foreign key refrences item(ItemCode),
39.     invoiceCode int foreign key refrences Invoice(InvoiceID)
40.     )
41.     GO

    /*Commands for Categories(Cat) Table*/
42.     select * from Cat
```

```
43.      Insert into Cat values
   ('{NameTB.Text}','{DescriptionTB.Text}')

44.      Update Cat set CatName = '{NameTB.Text}' , CatDesc =
   '{DescriptionTB.Text}' where CatCode = {key}

45.      Delete from Cat where CatCode = {key}

   /*Commands for Item Table*/
46.      select itemCode, ItemName,cast(round(ItemPrice, 2) as
   decimal(10, 2)) as ItemPrice,ItemCat ,CatName from Item join
   cat on Item.ItemCat = Cat.CatCode

47.      Update Item set ItemName = '{NameTB.Text}',ItemPrice =
   {double.Parse(PriceTB.Text)},ItemCat =
   {int.Parse(CategoriesCB.SelectedValue.ToString())} where
   ItemCode = {key}

48.      Delete from Item where ItemCode = {key}

   /*Commands for Users table*/
49.      Insert into Users values
   ('{NameTB.Text}','{GenderCB.SelectedText}','{PasswordTB.Text}',
   '{PhoneTB.Text}','{AddressTB.Text}')

50.      Update Users set UserName = '{NameTB.Text}',UserGender =
   '{GenderCB.SelectedItem.ToString().ToLower()}', UserPass =
   '{PasswordTB.Text}',UserPhone = '{PhoneTB.Text}',UserAddress =
   '{AddressTB.Text}' where UserID = {key}
```

4. ERD used