PHASE 1:

First of all, We thought that how to create E-R Diagram of our restaurant database. Then, We created 5 entity sets which are Employee, department, meal, Customer and order.After that, we added attributes of our entity sets. After, we added relationships of our entity sets. After that, we added participation constraints between them.Then, we defined multiplicity of relationships. Finally, we designed the E-R Diagram of our database.

PHASE 2:

After designing E-R Diagram, we designed our database on Sql Server Management Studio. Firstly, we created our tables on SSMS. Then, we defined our attributes using rules of integrity constraints and primary keys of tables. After that, we created relational schema of our database. Then, we defined Foreign Keys of tables. Finally, we added 10.000 records to our database using sql commands.

PHASE 3:

At this point, We connected our database to our program code which is helpful for user. We wrote our program code thanks to C #. We chose it because it is easy to connect database. We created menu which contains different options and different users. Managers can access whole menu but, employees can access some of the options.

OUR USERS: A screenshot of a cell phone

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There are 2 types of users who use this program. Employee can access for ordering,check-in and updating customer datas. Managers can whole access the menu of the program.The password of employee is 12345. Password of manager is 123456.

OUR MENU:

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The user can see this menu when the click the start button.

Our First Option:

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When user who can be manager select the 1 from menu, user can see the whole employees datas.

OUR SECOND OPTİON:

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When user who can be manager select the 2 from menu, user can see the whole meal datas which contains meal id, name, price and quantity.

OUR 3rd Option

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When user selects 3 from menu, user will see the new menu which contains new or existing customer. If user selects 1, user needs to fill out the name, phone number and employee id who cares when customer comes back to the restaurant like photograph 1. If user selects 2, user needs to select customer id from table and need to fill out employee id. At the end, the order is saved in database.

OUR 4rd OptionA screen shot of a computer

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When user select the 4 from menu, user can delete employees’ datas from Prepare Table of database because employees need to be available after his customer left.

OUR 5th Option

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When user who can be manager select the 5 from menu, user can add the new employee’s datas which are name, position, state, city, salary, zip code and department id.

OUR 6th Option

A screenshot of a computer screen

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Description automatically generated

When user selects the 6 from menu, user can update customer datas. Firstly, user needs to select customer id from customer table. Then, fill out the new customer number and assign the employee id from the employee table. In photograph 1, there is a customer whose id is 3000 and name D’arcy Ferrillio and his phone number is 598-768-6885. We updated his datas at the photograph 2.