

CSE2006 - MICROPROCESSOR AND INTERFACING

J COMPONENT - REVIEW 3



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RESTAURANT BILLING SYSTEM

USING EMU8086 ASSEMBLY LANGUAGE PROGRAMMING

ABSTRACT



This is designed especially for a restaurant which wants to attend to their customers in a very well manner. This system has the capability to take orders from the customers.

Thereby, raising employees' potency and reducing client complaints. It depends upon the customer that what he exactly wants to purchase and what he needs at the time. This system has the capability of calculating the bill according to the total number of the item ordered which is then shown to the customer in a proper bill.

Further, we will see the designing of the system and its parameters on the basis of which our system does work properly.



OVERALL IDEA

The overall idea is to construct a program in 8086 that will provide the user a very easy to use tool in a restaurant that will fetch orders and give them the bill. It will also provide them a visual of the whole menu with the prices of the dishes respectively. This can boost up the functioning of restaurants as they wouldn't have to take orders manually and the customers can just walk up to the machine and give their orders. This will increase the efficiency of the functioning of the restaurants.



KEY FEATURES

8086 microprocessor It is a 16-bit Microprocessor having 20 address lines and 16 data lines that provides up to 1MB storage. It consists of a powerful instruction set, which provides operations like multiplication and division easily. Using these operations, we have created a restaurant billing system with the following features:

- Displaying the menu
- Place an order
- View total items
- Calculation of total bill

STRUCTURE

The menu is divided into 3 parts breakfast, lunch and dinner and the price of each item will be displayed in front of the item name. Users will be asked to input two integers, one to select the item and another to select the quantity. The total price will be displayed on screen along with all the items selected. Bill shall be generated according to the items selected.

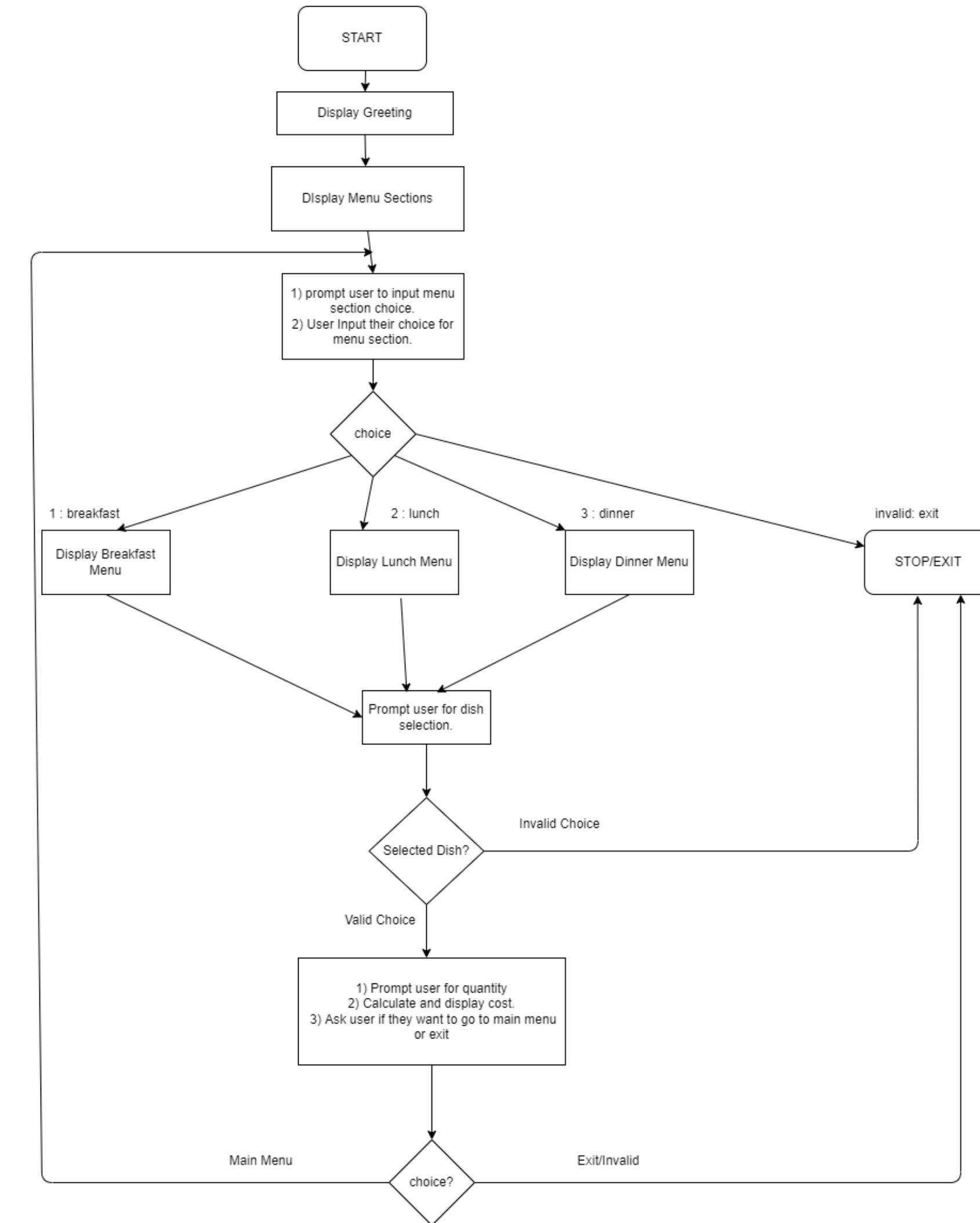


ADVANTAGES



- Reducing long queues and saving time
- Track billing and income to avoid tax problems
- Customer Invoices for customers to keep track of their expenses
- Expenses related to Clients.
- Immediate updates.

FLOW CHART





CONCLUSION

Finally, in the restaurant billing system source code, the outcome of all the time hard work is here. We have a system which takes the necessary choices of the customer according to the various filters like price, category of the food, and popularity. Then he is able to place the order accordingly and then the system calculates all the total of the order with taxes and then it can dispatch the bill that is handed over to the customer.

VIEW OUR PROJECT AT

□ <https://github.com/deepg7/RestaurantBillingSystem-8086>

THANK YOU!