

Table of Contents

Chapter 1 Introduction
1.1 Introduction.....	2
1.2 Design Goals/Objective	2
Chapter 2 Design/Development/Implementation of the Project.....
2.1 Implementation	3
2.1.1 Tools	10
Chapter 3 Performance Evaluation
3.1 Procedure	10
3.2 Results.....	10
3.3 Discussions	12
3.4 Advantages.....	12
Chapter 4 Conclusion
4.1 Introduction.....	13
4.1 Practical Implications	13
4.2 Scope of Future Work.....	13
References.....	13

Introduction

I want to make a fast food restaurant management system where we can add a order food item . Suppose if we press any number add food item then type food



size and quantity. And again add second food yes or no. If yes , same process add food item and if no, order exit and atleast show the bill.

A fast food restaurant also known as a quick service restaurant (QSR) within the



industry is a specific type of restaurant that serves fast food cuisine and has minimal table service.

Goals

- The customer can order food very easily.
- If you make a mistake in ordering a meal, there will be an option to re-order, so the customer will benefit.



- The customer will be able to easily see the total price of the food he has ordered and will return the money if he pays.

Implementation

```
#!/bin/bash
echo "<< ===== Welcome to my Resturent ===== >>"
echo "          =====Menu===== "
echo ""
echo ".....Food.....Size.....Price....."
echo ""
echo " 1....Burger < --- > 200/300 g < --- > 130/180 tk....."
echo " 2....Pizza < --- > 8/10 inch < --- > 120/150 tk....."
echo " 3....French Fry < --- > 300 g < --- > 70 tk....."
echo " 4....Beer < --- > 250/500/750 ml < --- > 500/1000/1500 tk..."
echo " 5....Coffee < --- > 250 g < --- > 65 tk....."
echo " 6....Ice-Cream < --- > Chocolate/Cone/Cream < --- > 25/20/35 tk....."
echo "What do you want to order ?"
read choice
if (($choice == 1))
then
echo "Which size of burger you want ?"
echo "1. 200 g  2. 300 g"
read burger_size
if (($burger_size == 1))
then
echo "How many burger do you want ?"
read burger_quantity
price=`expr $burger_quantity \* 130`
elif ((burger_size == 2))
```

```

    then
    echo "How many burger do you want ?"
    read burger_quantity
    price=`expr $burger_quantity \* 180`
    fi
elif ((choice == 2))
then
echo "Which size pizza do you want ?"
echo "1. 8 inch  2. 10 inch"
read pizza_size
    if (($pizza_size == 1))
    then
    echo "How many pizza do you want ?"
    read pizza_quantity
    price=`expr $pizza_quantity \* 120`
    elif (($pizza_size == 2))
    then
    echo "How many pizza do you want ?"
    read pizza_quantity
    price=`expr $pizza_quantity \* 150`
    fi
elif ((choice == 3))
then
echo "How many plate of french fry do you want ?"
read ff_quantity
price=`expr $ff_quantity \* 70`
elif ((choice == 4))
then
echo "Which size Beer you want ?"
echo "1. 250 ml  2. 500 ml  3. 750ml"
read coke_size
    if (($coke_size == 1))
    then
    echo "How many Beer do you want ?"
    read coke_quantity
    price=`expr $coke_quantity \* 500`
    elif (($coke_size == 2))
    then
    echo "How many Beer do you want ?"
    read coke_quantity
    price=`expr $coke_quantity \* 1000`
    elif (($coke_size == 3))
    then
    echo "How many Beer do you want ?"
    read coke_quantity
    price=`expr $coke_quantity \* 1500`

```

```

    fi
elif ((choice == 5))
then
echo " How many cup of coffee do you want ?"
read coffee_quantity
price=`expr $coffee_quantity \* 65`
elif ((choice == 6))
then
echo "Which Flavour Ice-Cream you want ?"
echo "1. Chocolate  2. Cone  3. Cream"
read ice_size
    if (($ice_size == 1))
    then
        echo "How many Ice-Cream do you want ?"
        read ice_quantity
        price=`expr $ice_quantity \* 25`
    elif (($ice_size == 2))
    then
        echo "How many Ice-Cream do you want ?"
        read ice_quantity
        price=`expr $ice_quantity \* 20`
    elif (($ice_size == 3))
    then
        echo "How many Ice-Cream do you want ?"
        read ice_quantity
        price=`expr $ice_quantity \* 35`
    fi
fi
echo ""
echo "Do you want to order 1 more item ?"
echo "1. Yes  2. No - >"
read order_choice2
if ((order_choice2 == 1))
then
echo "What do you want to order as a second item ?"
read choice2
    if (($choice2 == 1))
    then
        echo "Which size of burger you want ?"
        echo "1. 200 g  2. 300 g"
        read burger_size2
        if (($burger_size2 == 1))
        then
            echo "How many burger do you want ?"
            read burger_quantity2
            price2=`expr $burger_quantity2 \* 130`

```

```

elif ((burger_size2 == 2))
then
echo "How many burger do you want ?"
read burger_quantity2
price2=`expr $burger_quantity2 \* 180`
fi
elif ((choice2 == 2))
then
echo "Which size pizza do you want ?"
echo "1. 8 inch  2. 10 inch"
read pizza_size2
if (($pizza_size2 == 1))
then
echo "How many pizza do you want ?"
read pizza_quantity2
price2=`expr $pizza_quantity2 \* 120`
elif (($pizza_size2 == 2))
then
echo "How many pizza do you want ?"
read pizza_quantity2
price2=`expr $pizza_quantity2 \* 150`
fi
elif ((choice2 == 3))
then
echo "How many plate of french fry do you want ?"
read ff_quantity2
price2=`expr $ff_quantity2 \* 70`
elif ((choice2 == 4))
then
echo "Which size Beer you want ?"
echo "1. 250 ml  2. 500 ml  3. 750ml"
read coke_size2
if (($coke_size2 == 1))
then
echo "How many Beer do you want ?"
read coke_quantity2
price2=`expr $coke_quantity2 \* 500`
elif (($coke_size2 == 2))
then
echo "How many Beer do you want ?"
read coke_quantity2
price2=`expr $coke_quantity2 \* 1000`
elif (($coke_size2 == 3))
then
echo "How many Beer do you want ?"
read coke_quantity2

```

```

    price2=`expr $coke_quantity2 \* 1500`
    fi
elif ((choice2 == 5))
then
echo " How many cup of coffee do you want ?"
read coffee_quantity2
price2=`expr $coffee_quantity2 \* 65`
elif ((choice2 == 6))
then
echo "Which Flavour Ice-Cream you want ?"
echo "1. Chocolate  2. Cone  3. Cream"
read ice_size2
if (($ice_size2 == 1))
then
echo "How many Ice-Cream do you want ?"
read ice_quantity
price2=`expr $ice_quantity2 \* 25`
elif (($ice_size2 == 2))
then
echo "How many Ice-Cream do you want ?"
read ice_quantity2
price2=`expr $ice_quantity2 \* 20`
elif (($ice_size == 3))
then
echo "How many Ice-Cream do you want ?"
read ice_quantity2
price2=`expr $ice_quantity2 \* 35`
fi
fi
echo ""
if ((choice == 1))
then
echo "Your order is "$burger_quantity "Burger price is "$price
elif ((choice == 2))
then
echo "Your order is "$pizza_quantity " Pizza price is "$price
elif ((choice == 3))
then
echo "Your order is "$ff_q "French Fry price is "$price
elif ((choice == 4))
then
echo "Your order is "$coke_quantity "Beer price is "$price
elif ((choice == 5))
then
echo "Your order is "$coffee_quantity "Coffee price is "$price
elif ((choice == 6))

```



```

then
echo "Your order is "$ice_quantity "Ice-Cream price is "$price
fi

if ((order_choice2 == 1))
then
    if ((choice2 == 1))
    then
        echo "and "$burger_quantity2 "Burger price is "$price2
    elif ((choice2 == 2))
    then
        echo "and "$pizza_quantity2 "Pizza price is "$price2
    elif ((choice2 == 3))
    then
        echo "and "$ff_q2 "French Fry price is "$price2
    elif ((choice2 == 4))
    then
        echo "and "$coke_quantity2 "Beer price is "$price2
    elif ((choice2 == 5))
    then
        echo "and "$coffee_quantity2 "Coffee price is "$price2
    elif ((choice2 == 6))
    then
        echo "and "$ice_quantity2 "Ice-Cream price is "$price2
    fi
fi

totalprice=$((price+price2))

echo ""
echo "Your Total Bill is : "$totalprice
echo ""

echo "Amount Pay : "
read amount

if (( $totalprice == $amount ))
then
    echo "Thank you for your purchasing food from our resturant!!"
else
    echo "Your change is: " $((amount-totalprice))
fi

echo "Please pay the bill and wait for collecting the food!!"

echo "Thank you for your purchasing food from our resturant!!"

```

```

elif ((order_choice2 == 2))
then
echo ""
echo ""
if ((choice == 1))
then
echo "Your order is "$burger_quantity "Burger price is "$price
elif ((choice == 2))
then
echo "Your order is "$pizza_quantity " Pizza price is "$price
elif ((choice == 3))
then
echo "Your order is "$ff_q "French Fry price is "$price
elif ((choice == 4))
then
echo "Your order is "$coke_quantity "Beer price is "$price
elif ((choice == 5))
then
echo "Your order is "$coffee_quantity "Coffee price is "$price
elif ((choice == 6))
then
echo "Your order is "$ice_quantity "Ice-Cream price is "$price
fi
echo ""
echo "Your Total Bill is : $price "
echo ""
echo "Please pay the bill and wait for collecting the food!!"
echo "Amount Pay : "
read amount

if (( $price == $amount ))
then
echo "Thank you for your purchasing food from our resturant!!"
else
echo "Your change is: " $((amount-price))
fi
echo "Thank you for your purchasing food from our resturant!!"

fi

```

Tools

- ☐ Virtual Box
- ☐ Shell Programming

Procedure

From the beginning my desire was to build a food management system. I have worked towards that goal. First of all, I have taken it in the menu. Then I will select which one and how many I have selected. Then another thing that can be added to the map is that if you want you can be given the option to make a second food. At the end will show what food I ordered and how much and total price of which. It will show the return of how much money I am paying.

Result

```

L$ ./food.sh
<< ===== Welcome to my Resturent ===== >>
                ===== Menu =====
1 0 200/300 g < --- > 130/180 tk.....
2 0 8/10 inch < --- > 120/150 tk.....
.....Food.....Size.....Price.....
1.....Burger < --- > 200/300 g < --- > 130/180 tk.....
2.....Pizza < --- > 8/10 inch < --- > 120/150 tk.....
3.....French Fry < --- > 300 g < --- > 70 tk.....
4.....Beer < --- > 250/500/750 ml < --- > 500/1000/1500 tk... ''
5.....Coffee < --- > 250 g < --- > 65 tk.....
6.....Ice-Cream < --- > Chocolate/Cone/Cream < --- > 25/20/35 tk.....
What do you want to order ?
1
Which size of burger you want ?
1. 200 g    2. 300 g
2
How many burger do you want ?
4
Do you want to order 1 more item ?
1. Yes  2. No - >
1
What do you want to order as a second item ?
4
Which size Beer you want ?
1. 250 ml    2. 500 ml    3. 750ml
2
How many Beer do you want ?
1
Your order is 4 Burger price is 720
and 1 Beer price is 1000
Your Total Bill is : 1720
Amount Pay : 2000
Your change is: 280
Please pay the bill and wait for collecting the food!!
Thank you for your purchasing food from our resturant!!

```

Discussion

I tried to do all the Indexed File Allocation very accurately, but even then there could be a slight mistake somewhere so we said the output is 99.99% correct. I had to face some problems to do the programs. But in the end I have solved something. In the end, I was able to finish the program quite easily.

Advantages

- ❖ Gourmets can easily and fast order food.
- ❖ You can easily take orders from restaurants



- ❖ You don't need a waiter to order yourself.
- ❖ If you miss any food you can order again.
- ❖ When the customer complete orders, he will see for himself what he has ordered and how much it has cost.



Conclusion

I've built a fast food management system, it runs fairly well.

Food-lover can easily and fast order food. You can easily take orders from restaurants. You don't need a waiter to order yourself. This will make the use of this system more accessible for restaurant owners and customers and will increase the attraction of customers towards the restaurant.

In the future it can be converted to apps so everyone can easily use it from anywhere. I will try my level best of this project.

References

Google

Wikipedia

Youtube