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#!/bin/bash


# Welcome Message

echo "_____________________________Welcome TO RAHMAN FAST FOOD RESTAURANT
______________________________"

echo
"_____________________________________________________________________________________
__________________"

echo "______________________________________________MENU
ITEM_______________________________________________"

echo " Item No_________FOOD
Name_________________Size____________________________Price_____"

echo "   1        Chicken pot pie         6/8/10/12 inches             150/170/200/250 Tk"

echo "   2        Mashed potatoes         100/200/300/400 g            100/120/150/200 Tk"

echo "   3        Fried chicken           150/200/250 g                150/170/200 Tk"

echo "   4        Burgers                 chicken/egg/vegetables        150/50/40 Tk"

echo "   5        Chicken soup            150/250/300 g                70/120/150 Tk"

echo "   6        Coke                    250/500/1/2 L                30/50/80/120 Tk"

echo "   7        Coffee                  200 mL                       50/60 Tk"

echo "   8        Cake                    1/2/2.5/3/4 pound            120/170/220/260/300 Tk"

echo "   9        French fries            150/200/250/300 g            50/70/100/130 Tk"

echo "  10        Bread sticks            150/200/250/350 g            70/100/120/170 Tk"


echo "Do you want to order (yes=1/no=2): "

read user_input


if [ "$user_input" -eq 1 ]; then

   # Collect Customer Details

   read -p "Please Enter your name: " name

   read -p "Please Enter your address: " address
read -p "Please Enter your phone number: " phone_number
read -p "Please Enter your email: " email

# Order Process
echo "Please enter item number:"
read item_no

case $item_no in
    1) item_name="Chicken pot pie";;
    2) item_name="Mashed potatoes";;
    3) item_name="Fried chicken";;
    4) item_name="Burgers";;
    5) item_name="Chicken soup";;
    6) item_name="Coke";;
    7) item_name="Coffee";;
    8) item_name="Cake";;
    9) item_name="French fries";;
    10) item_name="Bread sticks";;
    *) echo "Invalid item selected"; exit 1;;
esac

echo "Please choose the size:" # Add size selection per item here...
read size_choice
case $item_no in
    1)
        case $size_choice in
            1) price=150;;
            2) price=170;;
            3) price=200;;
            4) price=250;;
            *) echo "Invalid size"; exit 1;;
        esac
        ;;
    # Add similar cases for other items
esac

read -p "How many $item_name do you want to order? " quantity

# Real-Time Inventory Check
declare -A inventory
inventory=( [1]=50 [2]=100 [3]=70 [4]=60 [5]=80 [6]=200 [7]=150 [8]=30 [9]=100 [10]=90 )

if [ "${inventory[$item_no]}" -ge "$quantity" ]; then
    inventory[$item_no]=$((inventory[$item_no] - quantity))
    echo "Inventory updated. Remaining ${item_name}s: ${inventory[$item_no]}"
else
    echo "Sorry, insufficient inventory for $item_name. Only ${inventory[$item_no]} left."
    exit 1
fi

# Calculate Total Price
total_price=$((price * quantity))
if (( total_price > 1000 )); then
    discount=$(( total_price / 10 ))
    total_price=$(( total_price - discount ))
    echo "10% discount applied! Total price: $total_price Tk"
fi
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    # Gift Wrapping
    read -p "Do you want gift wrapping? (yes=1/no=2): " gift_choice
    if [ "$gift_choice" -eq 1 ]; then
        read -p "Enter occasion (e.g., Birthday, Anniversary): " occasion
        wrapping_charge=50
        total_price=$((total_price + wrapping_charge))
        echo "Gift wrapping charge added. Updated total price: $total_price Tk"
    fi

    # Customization
    read -p "Do you want to customize your order? (yes=1/no=2): " custom_choice
    if [ "$custom_choice" -eq 1 ]; then
        echo "Available Customizations: 1=Extra Toppings (50 Tk), 2=Less Salt, 3=Extra Spicy, 4=Add Cheese (30 Tk)"
        read -p "Choose your customization: " custom_option
        case $custom_option in
            1) total_price=$((total_price + 50)); echo "Added Extra Toppings (50 Tk)";;
            2) echo "Selected Less Salt";;
            3) echo "Selected Extra Spicy";;
            4) total_price=$((total_price + 30)); echo "Added Cheese (30 Tk)";;
            *) echo "Invalid customization";;
        esac
    fi

 # Payment method section
    echo "Please choose a payment method: 1=Cash, 2=Card, 3=Online Payment"
    read payment_method
    case $payment_method in
        1) echo "You chose cash payment."; payment_mode="Cash";;
        2) echo "You chose card payment."; payment_mode="Card";;
        3) echo "You chose online payment."; payment_mode="Online";;
        *) echo "Invalid choice"; exit 1;;
    esac
    # Save Order
    echo "$name,____$address,____$phone_number,____$email,____$item_name,____$total_price" >>
restaurant.txt

    # Feedback
    read -p "Would you like to provide feedback? (yes=1/no=2): " feedback_choice
    if [ "$feedback_choice" -eq 1 ]; then
        read -p "Please enter your feedback: " feedback
        echo "$name: $feedback" >> feedback.txt
        echo "Thank you for your feedback!"
    fi

    # Export Receipt to PDF
    echo "Generating receipt as PDF..."
    echo "$name, $address, $phone_number, $email, $item_name, $total_price" > receipt.txt
    pandoc receipt.txt -o receipt.pdf
    echo "Receipt saved as receipt.pdf"
 # Order Cancellation Section
    read -p "Do you want to cancel your last order? (yes=1/no=2): " cancel_choice
    if [ "$cancel_choice" -eq 1 ]; then
        tail -n 1 restaurant.txt > cancelled_order.txt
        sed -i '$d' restaurant.txt
        echo "Your last order has been canceled. Details of the canceled order are saved in
'cancelled_order.txt'."
    else
    echo "Proceeding without cancellation."
fi

# Table Reservation System
read -p "Do you want to reserve a table? (yes=1/no=2): " reserve_choice
if [ "$reserve_choice" -eq 1 ]; then
    read -p "Enter your name: " customer_name
    read -p "Enter number of guests: " num_guests
    read -p "Enter reservation date (YYYY-MM-DD): " res_date
    read -p "Enter reservation time (HH:MM): " res_time
    echo "$customer_name, $num_guests guests, $res_date, $res_time" >> reservations.txt
    echo "Your table reservation is confirmed for $num_guests guests on $res_date at $res_time."
else
    echo "No table reservation made."
fi

# Order Status Tracking
echo "Your order is being prepared..."
sleep 5 # Simulating preparation time
echo "Order status: Ready for pickup/delivery."
sleep 2 # Simulating readiness time
echo "Order status: Delivered. Enjoy your meal!"

# Estimated Delivery Time
echo "Estimated delivery time: 30 minutes for nearby locations."

# Order History
read -p "Do you want to view your order history? (yes=1/no=2): " history_choice
if [ "$history_choice" -eq 1 ]; then
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        read -p "Enter your phone number or email to retrieve history: " contact_info
        grep "$contact_info" restaurant.txt || echo "No history found for $contact_info"
    fi

else
    echo "Thank you! Have a great day!"
    exit 0
fi

# Admin Panel
read -sp "Enter admin password to access admin panel: " admin_password
if [ "$admin_password" == "admin123" ]; then
    echo "Welcome, Admin!"
    echo "1. View all orders"
    echo "2. View feedback"
    echo "3. View total sales"
    echo "4. Employee Management"
    echo "5. Feedback Analysis"
    read -p "Choose an option: " admin_choice
    case $admin_choice in
        1) cat restaurant.txt;;
        2) cat feedback.txt;;
        3) awk -F, '{total += $6} END {print "Total Sales: " total " Tk"}' restaurant.txt;;

        # Employee Management
        4)
            echo "Employee Management:"
            echo "1. Add Employee"
            echo "2. Remove Employee"
echo "3. View Employee List"
echo "4. Update Employee Details"
read -p "Choose an option: " emp_choice
case $emp_choice in
    1)
        read -p "Enter employee name: " emp_name
        read -p "Enter employee role: " emp_role
        read -p "Enter employee salary: " emp_salary
        echo "$emp_name, $emp_role, $emp_salary" >> employees.txt
        echo "Employee added successfully."
        ;;
    2)
        read -p "Enter employee name to remove: " emp_name
        sed -i "/$emp_name/d" employees.txt
        echo "Employee removed successfully."
        ;;
    3)
        cat employees.txt
        ;;
    4)
        read -p "Enter employee name to update: " emp_name
        grep -q "$emp_name" employees.txt && {
            read -p "Enter new role: " emp_role
            read -p "Enter new salary: " emp_salary
            sed -i "/$emp_name/c\\$emp_name, $emp_role, $emp_salary" employees.txt
            echo "Employee details updated successfully."
        } || echo "Employee not found."
        ;;
    *) echo "Invalid choice";;
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      esac
      ;;

    # Feedback Analysis
    5)
      echo "Feedback Analysis Options:"
      echo "1. View all feedback"
      echo "2. Search feedback by keyword"
      echo "3. Count feedback entries"
      read -p "Choose an option: " feedback_choice
      case $feedback_choice in
        1) cat feedback.txt;;
        2)
          read -p "Enter keyword to search: " keyword
          grep -i "$keyword" feedback.txt || echo "No feedback found for '$keyword'."
          ;;
        3) wc -l feedback.txt | awk '{print "Total Feedback Entries: " $1}';;
        *) echo "Invalid choice";;
      esac
      ;;

    *) echo "Invalid choice";;
  esac
else
  echo "Invalid password."
fi
```