Latest copy of restaurant data

1 message

<madhur21@icloud.com> Mon, 4 Sept, 2023 at 01:13
To: Madhur Shinde <madhur212004@gmail.com>
Cc: madhur212004@outlook.com

```c
#include<stdio.h>
#include <stdlib.h>
#include <string.h>

#define MAX_DAYS_IN_MONTH 31
#define MAX_DATA_LENGTH 100
#define FILENAME "calendardemo_data.txt"


// Structure to represent a calendar date
struct Date {
    int day;
    int month;
    int year;
};

// Function to print a basic calendar for a given month
void printCalendar(int month, int year) {
    printf("     Calendar for %d/%d\n", month, year);
    printf("Sun Mon Tue Wed Thu Fri Sat\n");

    // Determine the day of the week for the 1st day of the month
    struct Date currentDate = {1, month, year};
    int dayOfWeek = 0; // 0: Sunday, 1: Monday, ..., 6: Saturday
    while (currentDate.day > 1) {
        currentDate.day--;
        dayOfWeek = (dayOfWeek - 1 + 7) % 7;
    }

    // Print spaces for days before the 1st day of the month
    for (int i = 0; i < dayOfWeek; i++) {
        printf("    ");
    }

    // Print days of the month
    for (int day = 1; day <= MAX_DAYS_IN_MONTH; day++) {
        printf("%3d ", day);
        dayOfWeek = (dayOfWeek + 1) % 7;

        // Start a new line at the end of the week
        if (dayOfWeek == 0) {
            printf("\n");
        }
    }

    printf("\n");
}

// Function to store data for a specific date in a file
void storeData(struct Date date, const char *data) {
    FILE *file = fopen(FILENAME, "a");
    if (file == NULL) {
        perror("Error opening file");
        return;
    }
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    fprintf(file, "%d/%d/%d: %s\n", date.month, date.day, date.year, data);
    fclose(file);
}

// Function to print stored data for a specific date
void printData(struct Date date) {
    FILE *file = fopen(FILENAME, "r");
    if (file == NULL) {
        perror("Error opening file");
        return;
    }

    char line[MAX_DATA_LENGTH];
    char targetDate[12]; // Format: mm/dd/yyyy
    snprintf(targetDate, sizeof(targetDate), "%d/%d/%d", date.month, date.day, date.year);

    printf("Sales Report for %s:\n", targetDate);
    float totalCost = 0.0;

    while (fgets(line, sizeof(line), file)) {
        if (strstr(line, targetDate) != NULL) {
            int quantity;
            float cost;

            // Parse quantity and cost from the stored data
            if (sscanf(line, "%*d/%*d/%*d: %d units at $%f", &quantity, &cost) == 2) {
                printf("Quantity Sold: %d, Total Cost: $%.2f\n", quantity, cost);
                totalCost += cost;
            }
        }
    }

    printf("Total Sales for %s: $%.2f\n", targetDate, totalCost);
    fclose(file);
}


float calculateCost(int quantity, float unitPrice) {
    return quantity * unitPrice;
}
void recordSales(struct Date date, int menuItem, int quantity) {
    float unitPrices[] = {10.0, 12.0, 20.0, 25.0, 10.0}; // Prices for each menu item
    float cost = calculateCost(quantity, unitPrices[menuItem - 1]);

    FILE *file = fopen(FILENAME, "a");
    if (file == NULL) {
        perror("Error opening file");
        return;
    }

    fprintf(file, "%d/%d/%d: %d units at $%.2f\n", date.month, date.day, date.year, quantity, cost);
    fclose(file);
}
float calculateBill() {
    float totalBill = 0.0;
    int choice, quantity;

    printf("Menu:\n");
    printf("1. Vadapav - $10\n");
    printf("2. Samoso - $12\n");
    printf("3. Burger - $20\n");
    printf("4. Pizza - $25\n");
    printf("5. Manchurian - $10\n");
    printf("6. End Order\n");

    do {
        printf("Enter your choice (1-6): ");
        scanf("%d", &choice);
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        if (choice >= 1 && choice <= 5) {
            printf("Enter quantity: ");
            scanf("%d", &quantity);
        }

        switch (choice) {
            case 1:
                totalBill += 10.0 * quantity;
                break;
            case 2:
                totalBill += 12.0 * quantity;
                break;
            case 3:
                totalBill += 20.0 * quantity;
                break;
            case 4:
                totalBill += 25.0 * quantity;
                break;
            case 5:
                totalBill += 10.0 * quantity;
                break;
            case 6:
                printf("Order complete. Your total bill is: $%.2f\n", totalBill);
                break;
            default:
                printf("Invalid choice. Please try again.\n");
        }
    } while (choice != 6);

    return totalBill;
}



int main() {
    int month, year;
    printf("****************************************** WATUMULL RESTAURANT ******************************************
\n");
    printf("hello user\n");
    printf("MENU WITH CODES AND PRICES\n");
    printf("1.vadapav=10\t 2.samoso=12 \t 3.buger =20 \t 4.pizza=25 \t 5.manuncchurian =10 \t  \n");
    printf("user please select date and then startbilling \n");
    printf("Enter the month (1-12): ");
    scanf("%d", &month);

    printf("Enter the year: ");
    scanf("%d", &year);

    if (month < 1 || month > 12) {
        printf("Invalid month input.\n");
        return 1;
    }

    int choice;
        float totalSales = 0;
    do {
        printf("\nMenu:\n");
        printf("1. Print Calendar\n");
        printf("2. Store Data for a Date\n");
        printf("3. Print Data for a Date\n");
        printf("4. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                printCalendar(month, year);
                break;
            case 2:
```

```
{
    int day;
    printf("Enter the day to store data (1-%d): ", MAX_DAYS_IN_MONTH);
    scanf("%d", &day);

    if (day < 1 || day > MAX_DAYS_IN_MONTH) {
        printf("Invalid day input.\n");
        continue;
    }

    struct Date selectedDate = {day, month, year};


    char data[MAX_DATA_LENGTH];
    printf("Enter data for %d/%d/%d: ", selectedDate.month, selectedDate.day, selectedDate.year);  //DATA
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    scanf(" %[^\n]", data);
    printf("START FOR BILLING \n");
    while (1) {
        printf("New customer order:\n");
        float customerBill = calculateBill();
        totalSales += customerBill;

        printf("Customer's Bill: $%.2f\n", customerBill);

        char proceed;
        printf("Do you want to continue with the next customer (y/n)? ");
        scanf(" %c", &proceed);

        if (proceed != 'y' && proceed != 'Y') {
            printf("Total Sales: $%.2f\n", totalSales);
            break;
        }
    }


    storeData(selectedDate, data);
    printf("Data stored successfully.\n");
}
```