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Calendar Management System in C

A command-line tool for managing calendars, events, and to-do lists.

Application Overview

This C-based application allows users to view monthly calendars, add, view, and delete events, and manage a personal to-do list. It is built using standard C libraries like `stdio.h`, `string.h`, and `time.h`.



Calendar Feature

1

User Input

Users enter the desired year and month.

2

Date Calculation

Logic calculates total days since year 0 and checks for leap years.

3

Structured Output

Prints a clear, structured monthly calendar.

Key functions include `main2()`, `checklp()`, `calcTotalDays()`, and `printCalendar()`.

Event Management

Add Event

Users input date and notes; past dates are restricted.

View Event

Displays all events stored in event.txt.

Delete Event

Removes a specific event by date.

Utilizes file handling functions (fopen, fprintf, fgets) for data storage and retrieval.

To-Do List Feature



Add Task

Stores new tasks in todo.txt.



View Tasks

Reads and lists all pending tasks.



Mark Task Complete

Moves tasks to complete.txt and removes them from the pending list.



View Completed Tasks

Displays all tasks marked as done.

Code Structure & Modularity



Separate Functions

Each feature is implemented with dedicated functions for clarity.



File Handling

Effective use of structures and file operations for data persistence.



Menu-Driven UI

Clean and intuitive user interface using loops and switch cases.

Sample Output

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Visual examples of the text-based calendar, added/viewed events, and to-do list outputs.

Conclusion & Future Scope

This system is an excellent learning tool for beginners in C, demonstrating file handling and modular programming principles.

Future Enhancements

- Graphical User Interface (GUI)
- Event reminders
- Recurring events

