

Daily To-Do List

Overview

This C++ code implements a basic to-do list application with features to add, view, mark as completed, delete, and search tasks. It can prove to be very effective in managing daily tasks.

Key Components

- **Task Structure:** Defines a task with description, due date, priority, and completion status.
- **Functions:**
 - `displayWelcomePage()`: Displays a welcome message.
 - `displayMenu()`: Shows the main menu options.
 - `addTask()`: Adds a new task to the list.
 - `viewTasks()`: Displays all tasks.
 - `markTaskCompleted()`: Marks a task as completed.
 - `deleteTask()`: Deletes a task.
 - `searchTask()`: Searches tasks by keyword.
- **Main Function:**
 - Displays the welcome page.
 - Creates a vector to store tasks.
 - Continuously displays the menu and handles user input.

Functionality

- The application maintains a list of tasks using a vector of `Task` structures.
- Users can add tasks with descriptions, due dates, and priorities.
- Tasks can be viewed in a formatted list.
- Tasks can be marked as completed.
- Tasks can be deleted from the list.
- Tasks can be searched by keyword based on their description.