

Programming Project / C++ - To-Do List Management Application

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I. Task Description

Student 1 is responsible for list and task management:

- Creating and deleting To-Do lists
- Adding, deleting, and modifying tasks
- Automatically removing lists once all tasks are completed

Student 2 is responsible for task status interaction and file handling:

- Marking tasks as completed
- Reading/writing lists from/to files
- Handling command line input and output display

II. Data Structures Used by the Team

The following classes will be used:

- Task: string description, bool is_completed
- ToDoList: string date, vector<Task> tasks

III. File Structure

The following files will be used:

tasks.txt

Stores the to-do lists in the form:

<date>

<task1 status> <task1 description>

<task2 status> <task2 description>

...

Example:

01.03.2021

[x] Refuel the car

[] Walk the dog

[] Feed the cat

IV. Interacting with Executables

Application will support the following command line arguments:

`./todo_app.exe add_list <date>`

Adds a new to-do list for the given date

`./todo_app.exe add_task <date> <description>`

Adds a task to the specified list

`./todo_app.exe delete_task <date> <task_index>`

Deletes a task from the list

`./todo_app.exe mark_complete <date> <task_index>`

Marks a specific task as completed

`./todo_app.exe show_list <date>`

Displays the tasks in the list

`./todo_app.exe delete_list <date>`

Deletes the to-do list for a specific date