

Personal Project - Tasksify

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Personal Project - Summer 2023

1 Purpose

The aim of this project is to create a usable task manager that works on a local machine that is efficient. Additionally, I am trying to utilize the skills I have learned from my previous class, cse13s, and implementing my own projects. This will be a challenge project for me!

2 How to Use the Program

The first step will be to get all the files from my Github repository in order to use the program. To retrieve all the files from my Github repository, you can type `git clone https://github.com/ATOMiNATiON/tasksify.git` into your terminal. By cloning my repository, you will have all the files necessary to use my program. The next thing you will need to understand is compiling my program, running my program, and cleaning up the files generated during compilation. There will be 3 sections below about how to compile the program, run the program, and removing the files during the compilation of the program.

2.1 Compiling the program

Once you have cloned the repository, you can now compile the program to create the executable file. To compile, just type `make` in your terminal (make sure you are in the correct directory when you type `make`). After typing `make`, you should see a new file in the directory called `task`. If you have that, then we can move on to the next step.

2.2 Running the program

To use this program, type `./task -[OPTIONS]`, the OPTIONS for this programs are ["a", "l", "r", "h"]. I will make a list of what each option does below:

- -a This option allows you to ADD a specified task to your todo list
- -l This option allows you to LIST out the task(s) on your todo list
- -r This option allows you to REMOVE a specified task on your todo list
- -h This option will present you the help menu, showing you how to use the program

2.3 Removing files

To remove the files that you do not wish to see after the `make` of this file, you may type: `make clean`, to clean up your directory for what it looked like before. But if you want to run this program again, you **will** need to `make` it again.

3 Program Design

I am currently planning to have 3 files that will work alongside each other to make this program work. The first file is the main file called *task.c*, the second file will be called *sll.c* which is the singly linked list file holding the abstract data types and its functions, and the third file will be called *sll.h* which is the linker file for the singly linked list to be linked to the main file.

Once the program is designed in a more usable way, I will update this design document. This will be my journey in creating my own program that I have learned from my cse13s class (from UC Santa Cruz).

3.1 Data Structures

For this program, I am intending to use a singly linked list to hold each specified task. This will become an abstract data type that I will be making in a separate file from the main. By doing so, it should also simplify the code that will be in the main file.

3.2 Algorithms

project is in progress...

3.3 Function Descriptions

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4 Results

project is in progress...

4.1 Numeric results

project is in progress...

4.2 Error Handling

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