

Algorithm and Programming Final Project

Project Name: “ToDo List Application”

Student Name: Kenny Krixiadi

Student ID: 2802529191

Class: L1CC

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A. Description

I. What is the program about & its purpose

The ToDo List Application is an app designed to store tasks, along with a date and time description to serve as a reminder for users to remember when they should be completing their tasks for the day. The ToDo List Application helps users to remember incomplete tasks and mark them complete for when they completed certain tasks.

B. Design

I. Parts of the program & requirements

External modules required for this program:

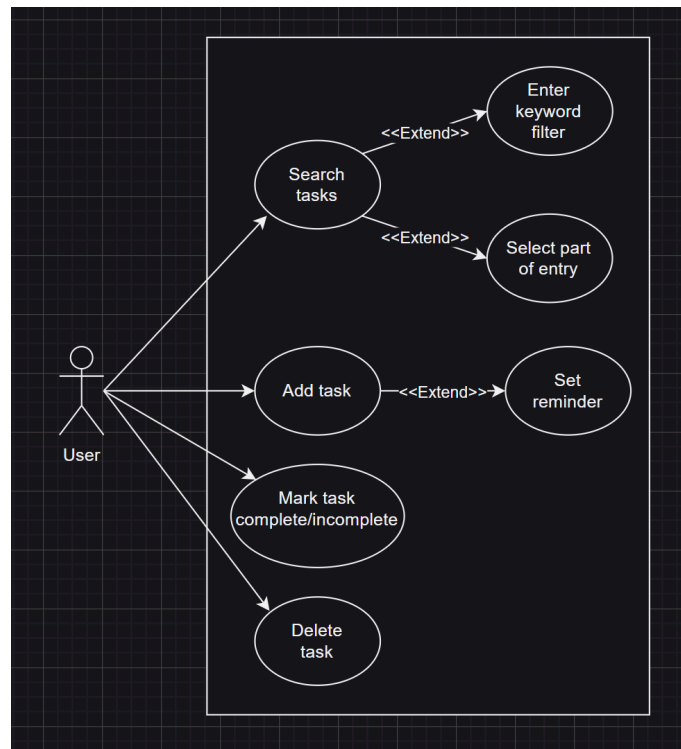
- **OS:** file path redirection
- **Pyodbc:** database file connection
- **Datetime:** use of proper date & time formatting
- **Tkinter:** user interface for the program

II. User interface features & functionality

Every feature of the user interface and their explanation for their respective functionalities have been written in the project repository's [README](#).

C. Implementation

I. Use Case Diagram



II. Extensibility

1. Comments have been inserted into the code of the program to aid other programmers in having a better understanding of individual code sections.
2. Variables use meaningful identifiers to help other programmers to understand the program more easily.
3. Diagrams have been used to allow easier understanding of the program's flow and to easily identify features.

III. Code explanation

Every section of code for the program has been explained with comment lines written within the program itself.

D. Evaluation

I. Does the program work as intended?

Not entirely, as the search feature fails to work as expected when the user tries to filter the entries by the reminder's datetime format, but other than that bug, other features work well and are performing as intended.

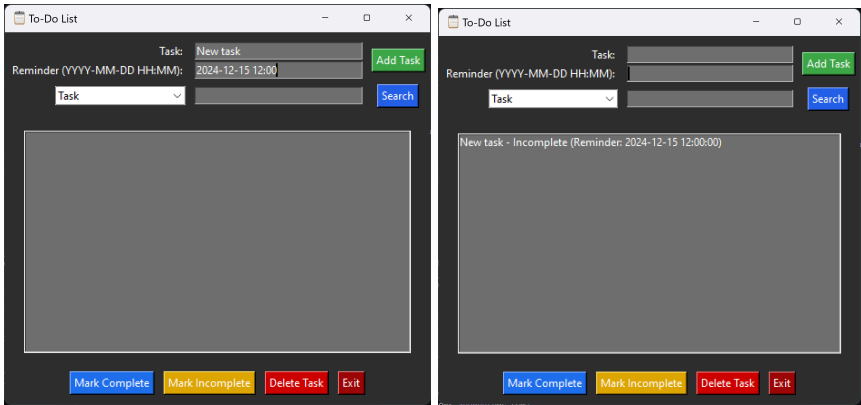
II. Future Improvements

A more user-friendly calendar can be used for users to select the data and time for when they want to be reminded of their task. A notification feature could also be a good addition to add up to the program, which can help the users be reminded without the need to look through the whole list of upcoming tasks.

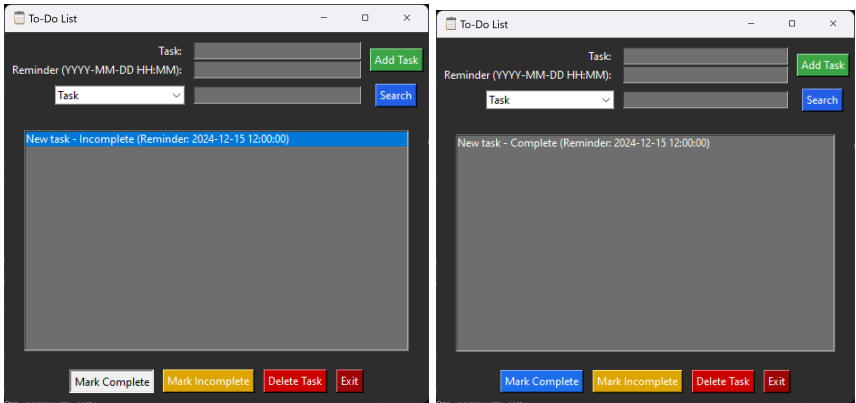
E. Working Program Evidence

I. Testing & screenshots

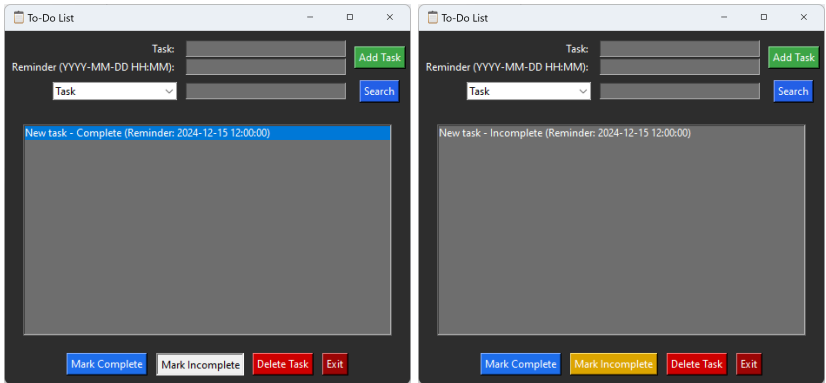
Add new task



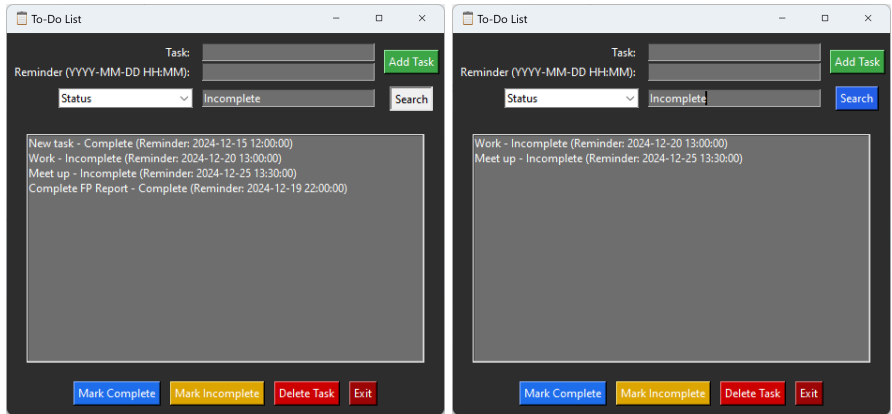
Mark complete



Mark incomplete



Search



Delete

