Infinite Level To-do List

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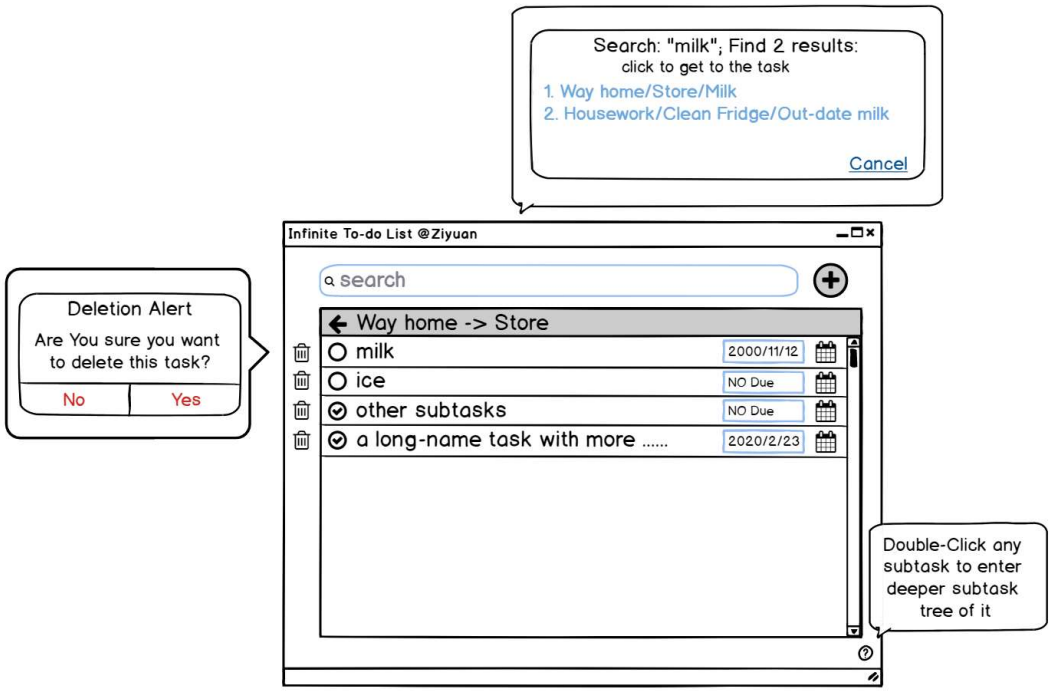
Problem

Most to-do list doesn't allow subtasks of a task to have their subtasks. This program is a handy to-do list which could support unlimited hierarchy, which means subtasks could also have subtasks.

Primary Stakeholder

It is useful for people who need to break down tasks in more details.

User Interface (front-end)



Data (back-end)

Basically, the entry from users are String type "name of the task", and some click operations. The tasks will be saved as a tree, since the program has infinite levels of tasks. Each tree node

represents a task, has properties like finish/unfinish, date, and subtask list which saving address of all subtasks.

Class (Type) Summary

TaskTreeADT // Interface of the taskTree
TaskTreeNode() // task tree node
TaskTree // Implementation of the TaskTreeADT
    insert(String) // insert a task
    remove(String) // remove a task
    size(TaskTreeNode) // return number of tasks in a subtree of a node
    get(String) // find a task if exist
SearchTaskTool // search tool to find and reach to a task
    find(String) // find tasks owning the String and return path
    quickReachToThePath() // get to the found task path
TaskAdder // task add tool
    add(String) //add task
TaskDeleter // task delete
    delete(String) // delete task
    alert() // warning alert before delete
TaskEditor // task properties editor
    dateChange() // change the date
    nameChange() // change the task name
GUIoperator // GUI operations left
    back() // return to the last task level
    help() // information pop-up
    enterToLevel() // quick get to a father task