

# Taskmaster

## Purpose

The purpose of this project is to create a simple and easy-to-use task management app (To-do list) using Golang and the Bubble Tea framework. The app works in a terminal-based user interface (TUI), allowing users to manage tasks easily using simple keyboard commands.

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## Features

### 1. Add Task

- **Functionality:** Allows users to add a new task to the list.
- **Interaction:** Press **a** to enter task input mode, type the task name, and confirm with **Enter**. The new task is added to the task list.

### 2. Delete Task

- **Functionality:** Removes a selected task from the list.
- **Interaction:** Navigate to the desired task using **↑**/**↓** and press **d** to delete it. The task is permanently removed.

### 3. Mark Task as Done/Undone

- **Functionality:** Toggle a task's status between "done" and "not done."
- **Interaction:** Navigate to a task and press **m** to toggle its status. Tasks marked as done are visually distinguished with **[x]**.

### 4. Undo/Redo

- **Functionality:** Revert or reinstate recent changes to the task list.
- **Interaction:** Press **u** to undo the last action or **r** to redo an undone action.

### 5. Save Tasks to File

- **Functionality:** Automatically saves tasks to a file (**tasks.json**) after every change.
- **Persistence:** Tasks remain saved across sessions, allowing users to pick up where they left off.

### 6. Terminal-Based User Interface

- **Functionality:** The entire application runs in a clean, distraction-free terminal interface.
- **Ease of Use:** Intuitive keyboard controls for navigation and task management.

### 7. Quit

- **Functionality:** Exits the application gracefully.
  - **Interaction:** Press **q** to quit. All changes are saved automatically before exiting.
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# Prototype

Taskmaster

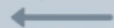


Tasks:

> [ ] New Task

> [x] Buy groceries

A completed task



[↑/↓] Navigate • [a] Add Task • [d] Delete Task • [u] Undo • [r] Redo • [m] Mark/Unmark Task • [q] Quit

Taskmaster (When adding Tasks)



Enter task name:

[Enter] to confirm • [Esc] to cancel