**Command Line Assistant: Your Personal Terminal Helper**

Welcome to **Command Line Assistant**, a versatile terminal application designed to simplify your daily tasks and provide quick access to essential tools—all from the command line! Whether you want to check the weather, manage tasks, or even perform a quick web search, this app offers a sleek and intuitive experience right from your terminal window.

**Key Features:**

* **Time & Date**: Display the current time and date in various formats with a single command.
* **Weather**: Instantly fetch the latest weather conditions for your current location or any city of your choice.
* **System Info**: Get detailed information about your system, including OS type, uptime, and memory usage.
* **Task Manager**: Stay organized with commands to add, list, prioritize, and remove tasks. Manage your to-do list efficiently.
* **Timer & Stopwatch**: Set countdown timers and track time with a built-in stopwatch feature.
* **Event Countdown**: Track upcoming events with countdowns that remind you of approaching deadlines or important dates.
* **Web Search**: Perform quick web searches directly from your terminal. Simply type a search query, and let the assistant retrieve relevant information from the web.
* **Fun Features**: Brighten your day with random quotes, jokes, or fun facts whenever you need a quick break.

**Command Line Assistant** is your go-to terminal companion, helping you stay productive, informed, and entertained, all with a simple set of commands. It’s fast, intuitive, and highly customizable—making it the perfect assistant for your daily routine!

Here’s the full **Command Line Assistant** command list, including the core features like time, weather, task management, system info, web search, and more. I’ve also added explanations for each command to clarify how they work.

**Full Command List for Command Line Assistant**

**Time & Date Commands**

* time  
  Displays the current time.
  + Example: time → Output: 12:34 PM
* date  
  Displays the current date.
  + Example: date → Output: Tuesday, September 25, 2024

**Weather Commands**

* weather  
  Displays the current weather for your location (if no city is specified).
  + Example: weather → Output: Weather data for your current location.
* weather [city]  
  Displays the current weather for a specific city.
  + Example: weather London → Output: Weather in London.

**System Info Commands**

* systeminfo  
  Displays information about your system, including:
  + OS Type (Windows/Linux/Mac)
  + System Uptime
  + Memory Usage (free vs total memory)
  + CPU information (optional)
  + Example: systeminfo → Output: OS: MacOS, Uptime: 1 day, Memory: 4GB free of 8GB

**Task Management Commands**

* task add "description"  
  Adds a new task to your task list.
  + Example: task add "Finish project report" → Output: Task added: Finish project report
* task list  
  Displays the list of all tasks.
  + Example: task list → Output: List of tasks with IDs and statuses.
* task remove [id]  
  Removes a task from the task list using the task's ID.
  + Example: task remove 1 → Output: Task 1 removed
* task prioritize [id] [priority]  
  Sets the priority of a task (e.g., high, medium, low).
  + Example: task prioritize 2 high → Output: Task 2 updated to high priority
* task due [id] [date]  
  Sets a due date for a specific task.
  + Example: task due 3 2024-12-15 → Output: Task 3 due date set to 2024-12-15
* task search [keyword]  
  Searches tasks based on the provided keyword.
  + Example: task search "project" → Output: List of tasks with "project" in their description

**Timer & Stopwatch Commands**

* timer [duration]  
  Sets a countdown timer for the specified duration (e.g., minutes, hours).
  + Example: timer 5m → Output: Timer set for 5 minutes
* stopwatch start  
  Starts the stopwatch.
  + Example: stopwatch start → Output: Stopwatch started
* stopwatch stop  
  Stops the stopwatch and displays the elapsed time.
  + Example: stopwatch stop → Output: Stopwatch stopped, elapsed time: 1 minute 15 seconds
* stopwatch reset  
  Resets the stopwatch to 0.
  + Example: stopwatch reset → Output: Stopwatch reset

**Event Countdown Command**

* countdown [event\_name] [date]  
  Sets a countdown timer for a specific event and date.
  + Example: countdown "Project Deadline" 2024-10-30 → Output: Countdown set for Project Deadline, 35 days remaining

**Web Search Commands**

* search [query]  
  Performs a web search for the given query and displays the top results in the terminal.
  + Example: search "JavaScript tutorials" → Output: A list of search results with titles and links.

**Fun Features**

* quote  
  Displays a random motivational quote.
  + Example: quote → Output: "The best way to predict the future is to create it." - Peter Drucker
* joke  
  Displays a random joke to lighten the mood.
  + Example: joke → Output: Why don't programmers like nature? It has too many bugs.

**Help & Exit Commands**

* help  
  Displays a list of available commands with a brief description of each.
  + Example: help → Output: List of all commands and their descriptions.
* help [command]  
  Displays detailed information and usage examples for a specific command.
  + Example: help weather → Output: Detailed usage info for the weather command.
* exit  
  Exits the terminal application.
  + Example: exit → Output: Application closes.