

INTRODUCTION

• Purpose:

The Personal To-Do List Application is designed to help users efficiently organize, track, and manage their daily tasks through a simple and intuitive command-line interface. It aims to provide a lightweight tool that supports productivity by allowing users to add, update, complete, and delete tasks as needed.

Importance:

In modern life, staying organized and managing time effectively is critical. This application offers a practical solution for individuals who prefer a straightforward task manager without complex software. It supports better task prioritization and progress tracking, helping users increase focus and reduce stress related to incomplete or forgotten tasks.



• Technologies:

Python 3.x & CSV for data storage

PROJECT OBJECTIVES

Create, Read, Update, Delete (CRUD) Tasks via CLI:

Provide users with a simple command-line interface to efficiently add new tasks, view existing ones, update task details such as description and priority, and delete tasks when no longer needed

Persist Tasks in CSV Across Sessions:

Ensure all task data is saved in a CSV file so that information remains available even after the application is closed and reopened, allowing for reliable long-term task management.

• Filter Tasks by Status and Priority:

Enable users to easily view tasks based on their status (e.g., pending or completed) and priority levels (high, medium, low), helping them focus on the most urgent or important items.

Provide Basic Statistics (Completion Rate):

Offer simple insights such as total tasks, number of pending and completed tasks, and overall task completion rate, which help users monitor their productivity and progress effectively.

ARCHITECTURE DIAGRAM



User (CLI Menu)

TaskManager (Python Logic) CSV File (Data Storage)

KEY FEATURES

- 1. Add Task: Description + Priority
- 2. View Tasks: All, Pending, Completed
- 3. Update & Delete Tasks
- 4. Mark Complete: Auto date stamp
- 5. Task Statistics: Counts & completion rate





SCREENSHOTS

1.py	/ > 😘 TodoApp > ۞ delete_task			
	<pre>from task_manager import import sys</pre>	TaskMana	ger	
PROBLE	MS OUTPUT DEBUG CONSOLE	TERMINAL	PORTS	
l ow ni	riority: 2			
,				
Press	Enter to continue			
===== 	PERSONAL TO-DO LIST MANAGER			
===== 1. Add	i new task			
2. Vie	ew all tasks			
3. Vi	ew pending tasks			
4. Vi	ew completed tasks			
	rk task as complete			
	late task			
	lete task			
	lter tasks by priority			
	sk statistics			
0. Ex	it			
Enter	your choice (0-9): 8			
Liicei	your choice (0-3). 8			
F	ilter by Priority			
	priority (High/Medium/Low)	[default:	Medium]: Hig	th .
	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			50°
High F	Priority Tasks:			
ID	Description	Priority	Status	Created
T001	A STATE OF THE PROPERTY OF THE			2025-08-15
T005	Prepare presentation s			2025-08-13
T008	Submit project proposal	High	Pending	2025-08-17
	_			
ress	Enter to continue			

PERSONAL TO-DO LIST MANAGER

Press Enter to continue...

√ Task added successfully! ID: T010

```
↑ 1.py > % TodoApp > 分 delete_task
       from task_manager import TaskManager
       import sys
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
     PERSONAL TO-DO LIST MANAGER
1. Add new task
View all tasks

    View pending tasks
    View completed tasks

5. Mark task as complete
6. Update task
7. Delete task
8. Filter tasks by priority
9. Task statistics
0. Exit
 Enter your choice (0-9): 2
 All Tasks:
 ID Description
                                Priority Status
 T001 Complete data analytic... High
 T002 Pay electricity bill Medium Completed
                                                       2025-08-14
 T003 Buy groceries for the ... Medium
 T004 Schedule dentist appoi... Low
                                                        2025-08-17
 T005 Prepare presentation s... High
 T006 Call insurance company Medium
                                                        2025-08-17
 T007 Read Python programmin... Low
                                                        2025-08-16
 T008 Submit project proposal High
                                                        2025-08-17
  T009 Practice Python progra... Medium
 Press Enter to continue...
```

RESULTS & INSIGHTS

ORGANIZATION: Quick task tracking

PRIORITY FOCUS:

Highlights high-priority

items

PERSISTENCE: Tasks saved offline

LIMITATIONS: No GUI or database

01 02

03

04

ETHICAL CONSIDERATIONS

• No personal data collection

Data stored locally

03) • No bias concerns (personal use)

Transparency and User Control



THANK YOU!

• GitHub: https://github.com/ShuvangkarSaikia/Personal-to-do-list-cli

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