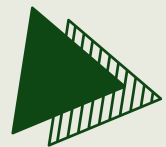


JARVIS

Our vision of a Task Manager



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23 April 2025

AGENDA

- Features
- Architecture
- Key Design Decisions
- Challenges
- Lessons Learned
- Demonstration
- Questions

FEATURES

Key Features:

- Basic Task Management
 - Adding, Removing, Editing, Saving, loading, and completing your tasks.
- Task Filtering:
 - Filter your tasks to better organize your day!
- Tagging:
 - Add tags for easy filtering!
- Calendar:
 - View all of your tasks in a calendar format for easy tracking!

Future Features:

- ChatGPT api
- Google Calendar api

ARCHITECTURE

Layered Architecture

- Backend - JSON files
- Persistence Layer - task.py
- Business Layer - task_master.py
- Presentation Layer - task_cards.py
(importing calendar_view.py and
calendar_dropper.py)



KEY DESIGN DECISIONS

One of the key design decisions we made was using the tkinter module. It allowed us to easily create our simple Graphical User Interface.

The app is designed around a “task_master” object. Our task master manages the tasks on the backend of our application. He helps with the management of basic task functions along with getting task information.

- Tasks save as a JSON (Easy to read)
- Column design for GUI (Similar apps like Trello)
- Tagging tasks for easy filtering

CHALLENGES

The biggest challenge:

- Communication
 - Finding times to meet and coordinate our work was extremely difficult. This caused confusion and crunching near the end of each milestone submission.

Other Challenges

- Learning Github
 - Some of us were fluent starting the project and others hadn't ever used it in a development environment before.

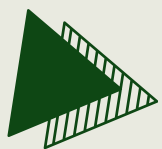
- Balancing the workload
 - It was difficult to judge which tasks would be the heaviest to take on, but each milestone made this easier to judge.

LESSONS LEARNED

Team:

- Planning for a project (Software dev. Cycle, Sprints, proper documentation and testing)
- Coding Design Principles (ie, Singleton, Factory, etc,.)
- Team workflow (How to manage and organize efforts)

Demonstration



Thank you.

Questions?

