Take-Home: Mood of the Queue

Role: Data Scientist, Operations - SF

Time Limit: ~30 minutes

Goal: Show your ability to ship simple, clean tools quickly using Python

Background

Our Ops team handles hundreds of patient support tickets every day. These tickets have a *vibe*—some feel frustrating, others are joyful, some just confusing.

We want to capture that vibe as it happens.

This tool will help support agents log the *mood* of the ticket queue throughout the day, and visualize the emotional trend.

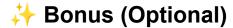
X Your Task

Build a simple internal tool that allows a user to:

- 1. Log a Mood
 - Select a mood (dropdown or emoji button e.g.,
 \omega \o
 - o (Optional) Add a short **note** (e.g., "lots of Rx delays today")
 - On submit: append the entry (timestamp, mood, note) to a Google Sheet
- 2. Visualize the Mood
 - Show a **bar chart** of mood counts for *today*

Constraints

- Language: Python
- UI: **Streamlit** preferred (or Flask + basic HTML)
- Storage: Google Sheets
- Charting: Use matplotlib, plotly



- Auto-refresh the chart
- Group by day or allow filtering
- Add subtle UI polish or interaction niceties

Deliverables

Please submit:

- A link to the deployed app (or a Loom walkthrough if run locally)
- A GitHub repo with your code and clear README
- A link to the backing Google Sheet

What We're Looking For

- Ability to build fast, useful internal tools
- Clean, readable, and pragmatic Python code
- A sense of taste—do you know when to stop?

Time Management

Do not spend more than ~30 minutes on this. We're not testing polish—we care more about your instincts, and clarity of thought.

Don't overthink it. Treat it like something you'd hack together for your team on a Friday afternoon to unblock someone.

Good luck—we're excited to see your thinking in action!