HACK404 PORTFOLIO

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HOW WE WORKED AS A TEAM

Micro hack 1: Figma – Hack 404 redesign

Goal: Create an inclusive user interface with emphasis on teamwork and strategic planning.

Result: A fully functionable user interface with the following features:

- Added calendar with detailed events and sign up feature for each event.

- Team chat with internal collaboration tools.

- AI chatbot

- Project upload Page as well as live feed for announcements and current pictures.

Link to Figma: https://www.figma.com/design/vXEXAvfmyGqKKCPnOV1Bld/Better-UI?node-id=0-1&t=Y4779bCxtkEwYhTl-1

Micro hack 2: Agent Fred

Link to finished AI agent: VishalParvannan/Hack404-Code: Mini-Hacks Code

```
print(
📖 Commands:
- add: Add a new reminder
- remove: Delete a reminder
- list: Show current reminders
- stop: Stop all reminders
- help: Show this help menu
""")
                paused.set()
```

Challenges:

- Dealing with reminder input/output
  - Stack Overflow/Tien:
  - Created a way to pause vs time the wait time via Asyncio
- System not recognizing Alith
  - Download Alith from main computer terminal
  - Help from Tien (Mentor)
- Running base code --> Backend processes from Ai agent (OpenAI API) was running in terminal
  - Used ContentLib to hide backend processes.

Improvements:

Problem: Agent Fred was limited to only one task

Solution:

Added a pause feature to allow the user to enter input without disruption by pausing all backend processes
- Added a remove feature to eliminate ongoing reminders and tasks
- Added a list feature to show program elements
- More sophisticated interface.
- Added 2 different types of timers
- Added a feature to save previous reminders to new program via JSON

Micro hack 3: Web development

Goal: Create a functioning base HTML website that replicates a hackathon webpage

Challenges:

- Correcting minor syntax errors were major issues
  - Evaluate each line of code with mentors and help from others
- Linking HTML to python because of incorrect folder matching
  - Solved with taking clues from code and working backwards
- Matching the Web Design to our UI/UX Design
  - A problem we could not solve due to time constraints

Improvements:

- Created a new homepage that leads to the dashboard
  - Prevents the need to type the link out
- Used a new, simpler color scheme to keep the aesthetics while making it look clean
  - Used calm colors, with smooth gradients
- Created a Profile Button, Timer button, and a QR Code, similar to Hack404's main page
  - Timer Button countdowns while page is open

GROUP ENGAGEMENT:

Conclusion:

- Learned a lot about AI workflows and connecting python terminals to real web servers with IP address.

- Role each team member played in developing a working fluid system leveraging each of our strengths.

- Developing a communication system and collaboratively working

- Taking leadership roles and finding the best possible way of making something possible.