

<ROLE CLOSED>

1. Do not apply or attempt [this assignment if this role is not open](#).
2. Please don't attempt to build this without coding agents.
3. Please make a friend test the website before sending over. If it doesn't work when my engineers try, can't do much after that. In the world where humans don't write code anymore, one needs to own functionality.

Objective: Build a functional deep research AI Agent, "MicroManus" with usage based billing system integrated.

What needs to be delivered:

- A web UI, call it "MicroManus" where a person can sign up (only social login - github or google is ok). After signup, user must be shown a paywall. This paywall can only be bypassed using a coupon code SID_DRDROID. Or by actually adding a credit card and paying \$5. In either case, user receives 5 credits.
- A web ui to chat with an agent which has access to the internet and can have conversation threads.
 - It should hold context of conversation within the same chat.
 - The agent should be able to operate in a loop: think → do call → see output, understand → think again → more tool call, etc. (E.g. think the agent is given a prompt: "Create a report explaining the recent forest fires in California, what are causing it and what can be done to avoid it"
 - There should be capability to start new chats.
 - The agent should have capability to create a report (PDF) as an artifact if needed.
- The agent should have caching in place with OpenAI compatible key & endpoint.
 - If I put my key, I should be able to chat.
 - Support 3-4 latest popular Claude, OpenAI and Kimi models
- After multiple chats, there should be a page where I can see the cost & stats of each chat.
 - Cost to be calculated based on the model connected.
 - Cost to be distributed by input / output / cache tokens.
 - Cost should be as per model selected while adding the key.

What a good submission looks like: (hint: definite review and v v high chance of feedback over email)

- You share a sign up URL. Everything else has to be self-explanatory.

What great outcome looks like: (hint: guaranteed response and v v high chance of interview)

- Actually functional flow to add a credit card and get approved.

Tips:

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- Use free / openly available technologies:
 - Brave Search API or SERP api or any other web search api for agents
 - Supabase
 - Stripe developer testing account or any other payment gateway
- Explore cutting edge deep research agents like Perplexity and Manus to get a vibe of the UX / capability comparison.
- Use agentic coding, but know your stuff. Get your friends to test the entire requirement shared above. A submission that doesn't work will disqualify you directly.

Instructions:

- Do not pre-load LLM key in your app. User should put the API key.
- This cannot be a github repo or localhost. Need a weblink.
- This assignment should take you 2-4 hours to complete.

Submissions:

- Send the URL to sign up to Siddarth over email.