

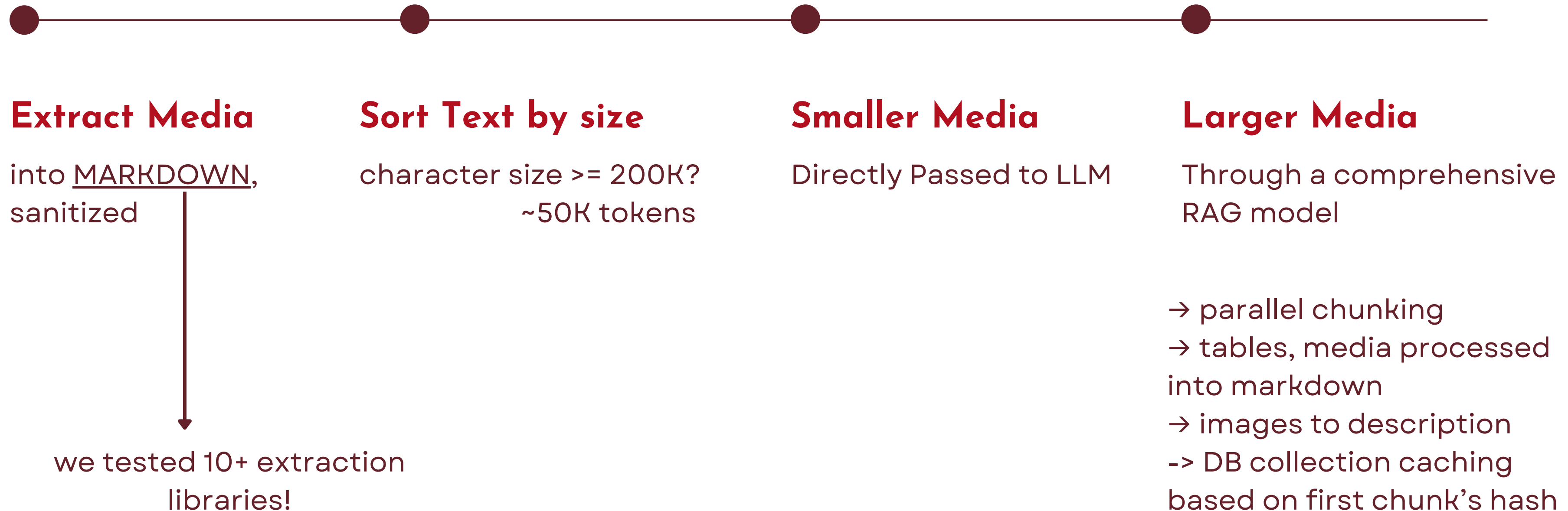
Team

**Laal Tamatar**

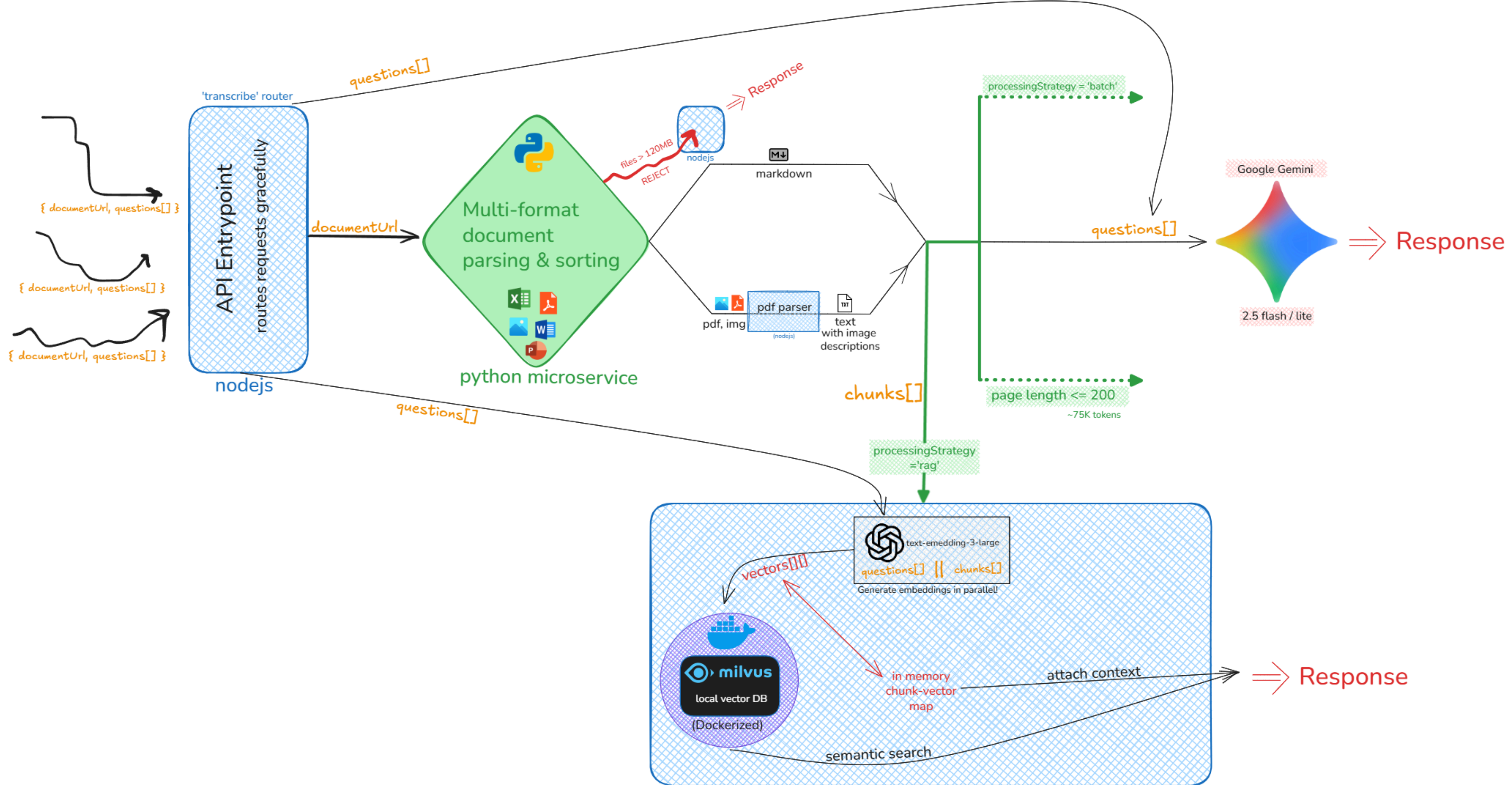
# Overall Round Progress

1	Basic RAG (late entry)
2	RAG with optimized retrieval ← local Milvus DB, t-e-3 large
3	Sanitization, optimized chunking ← MD introduced
4	added single tool calling, agentic
5	agentic interaction, using a cURL tool
6	more tools introduced <---- cURL v/s headless browser debate
7A	Agentic workflow with DOM snapshots v/s looped cURL approach
7B	Fixated to cURL + tools agentic workflow

# Rounds 1-4 (prelims) overview



# HTTP Requests



# Finale Approach

we had two!

Langsmith

Logging

Request

Url  
+  
Questions

FastAPI Backend

Langgraph Agent

Agent

Tools

LLM

Curl Request Tool

Python Code Runner

Git Commit and Push

get\_github\_repo\_tree

get\_github\_file\_contents

Chroma DB  
(Vector Store)

text-embedding-3-  
large



# The dilemma

## the 'simple' approach

### master cURL tool + util tools

- Works for both, server and client side rendering
- after the context limit approaches 50K tokens → switch to RAG
- **(chunks are created, stored in a vector DB, semantically searched and returned)**
- Faster
- pretty generic

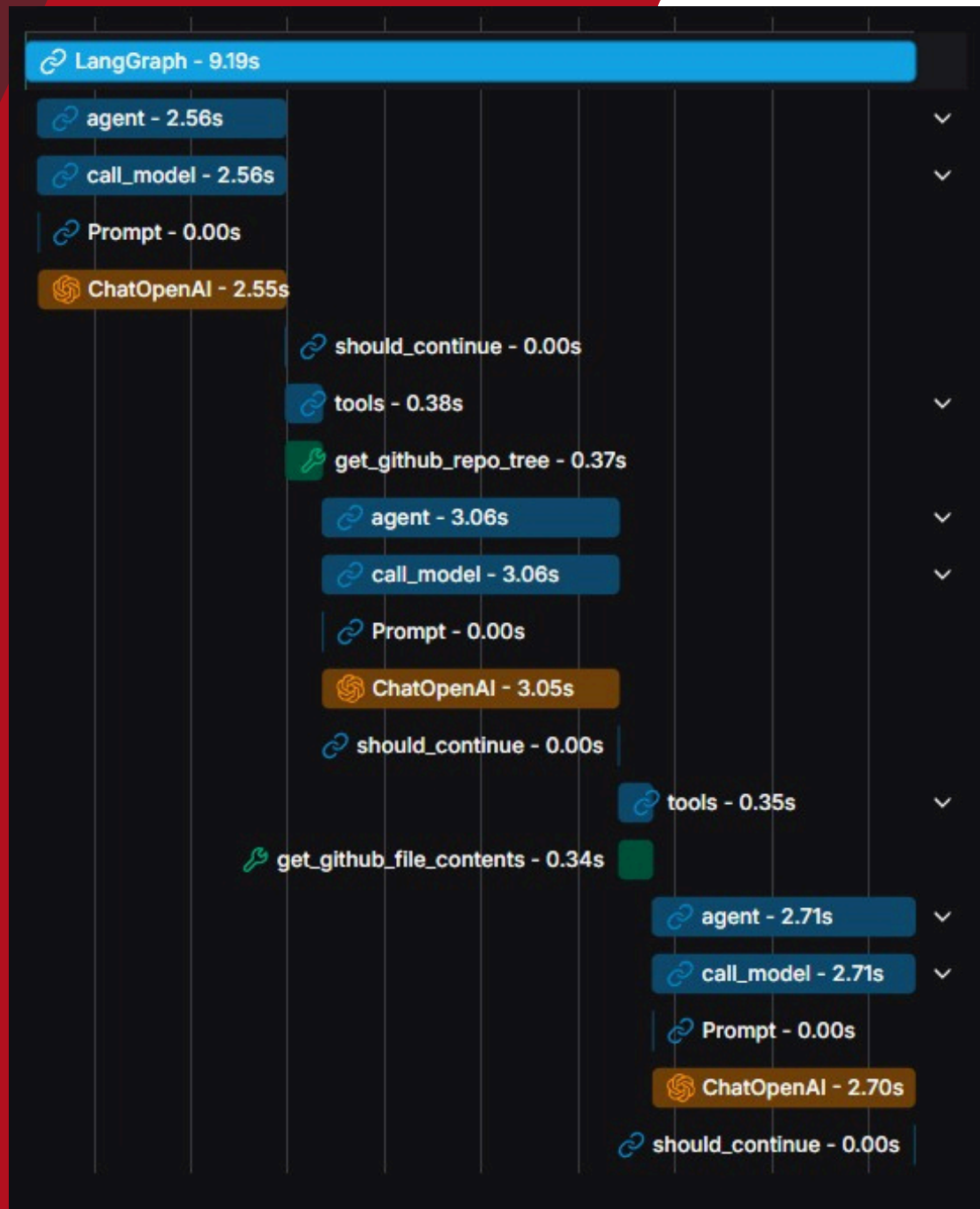
## the 'optimal' approach

### headless browser + DOM snapshots on change

- Headless browser + DOM snapshots on every change
- A tool for the agent to read sanitized DOM snapshots, and inject JS into the latest page.
- Memory overhead, less scalable
- cleaner

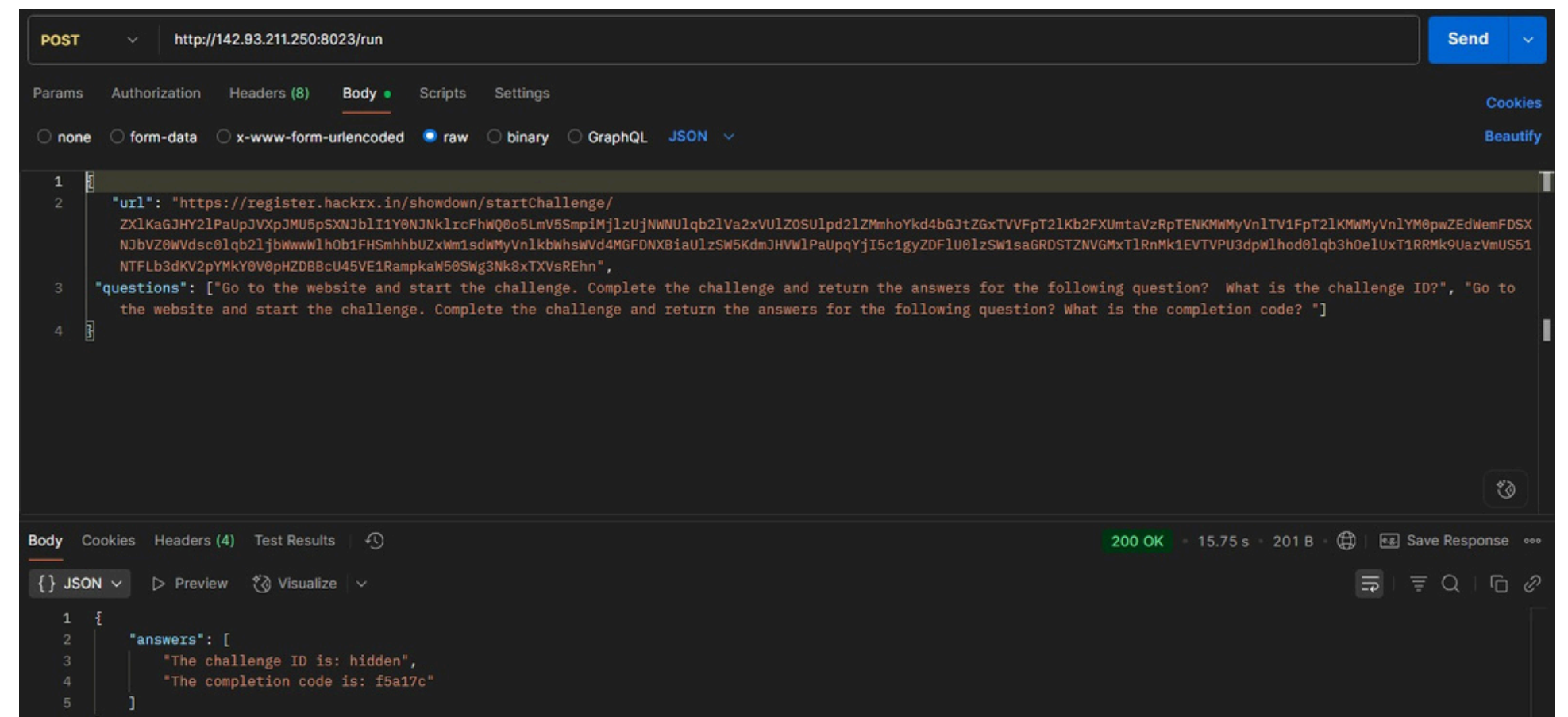
# Let's talk numbers

what worked out for us!



9s

V/S



15s



**Thank you!**



