

Bytebricks Python Backend LLM Developer Live-Coding Interview

Overview

During this 45-minute session, we'll:

1. Discuss your take-home submission (10 minutes)
 2. Implement one targeted enhancement (30 minutes)
 3. Test and review the change (5 minutes)
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AI Agent Coding Task (select the relevant one)

LangGraph Framework Tasks

Task	Description	Success Criteria
Add RAG Confidence Logging	Modify <code>agent/rag.py</code> to log relevance and coverage scores to console	When asking "What is RAG?", console shows: <code>[DEBUG] RAG scores - relevance: 0.85, coverage: 0.79</code>
Adjust Decay Factor	Change decay from 0.5 → 0.3 in <code>adaptive.py</code>	After <code>/bad_answer</code> , demonstrate score decays by 0.3 each turn via logs
Add Source Tracking	Enhance citations to include page/section numbers	Responses show: <code>[Source: AI Basics, Page 12, Section 3.1]</code>

OpenAI Agents SDK Tasks

Task	Description	Success Criteria
Guard-rail on Low Relevance	Add callback to block responses when relevance < 0.4	Out-of-scope query returns "not covered" Console shows: [BLOCKED] relevance=0.35
Print Token Usage	After <code>runner.run()</code> , display token consumption	Console shows: Tokens used: 193 (prompt: 150, completion: 43)
Add Retry Logic	Implement exponential backoff for API calls	Demonstrate retry on simulated failure with logged delays

Backend Coding Task

FastAPI/General Tasks

Task	Description	Success Criteria
Health Check Endpoint	Add <code>/health</code> public endpoint	GET <code>/health</code> returns {"status": "ok", "version": "1.0.0"}
Metrics Endpoint	Add <code>/metrics</code> public endpoint for basic stats	Returns request count, average response time

Enhanced Rate Limiting	Implement a global rate limit on the overall system	Apart from per minute per user limit the system restricts X requests per minute globally
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