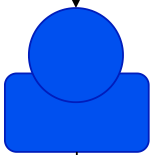


Confidence Score



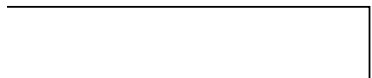
Expert

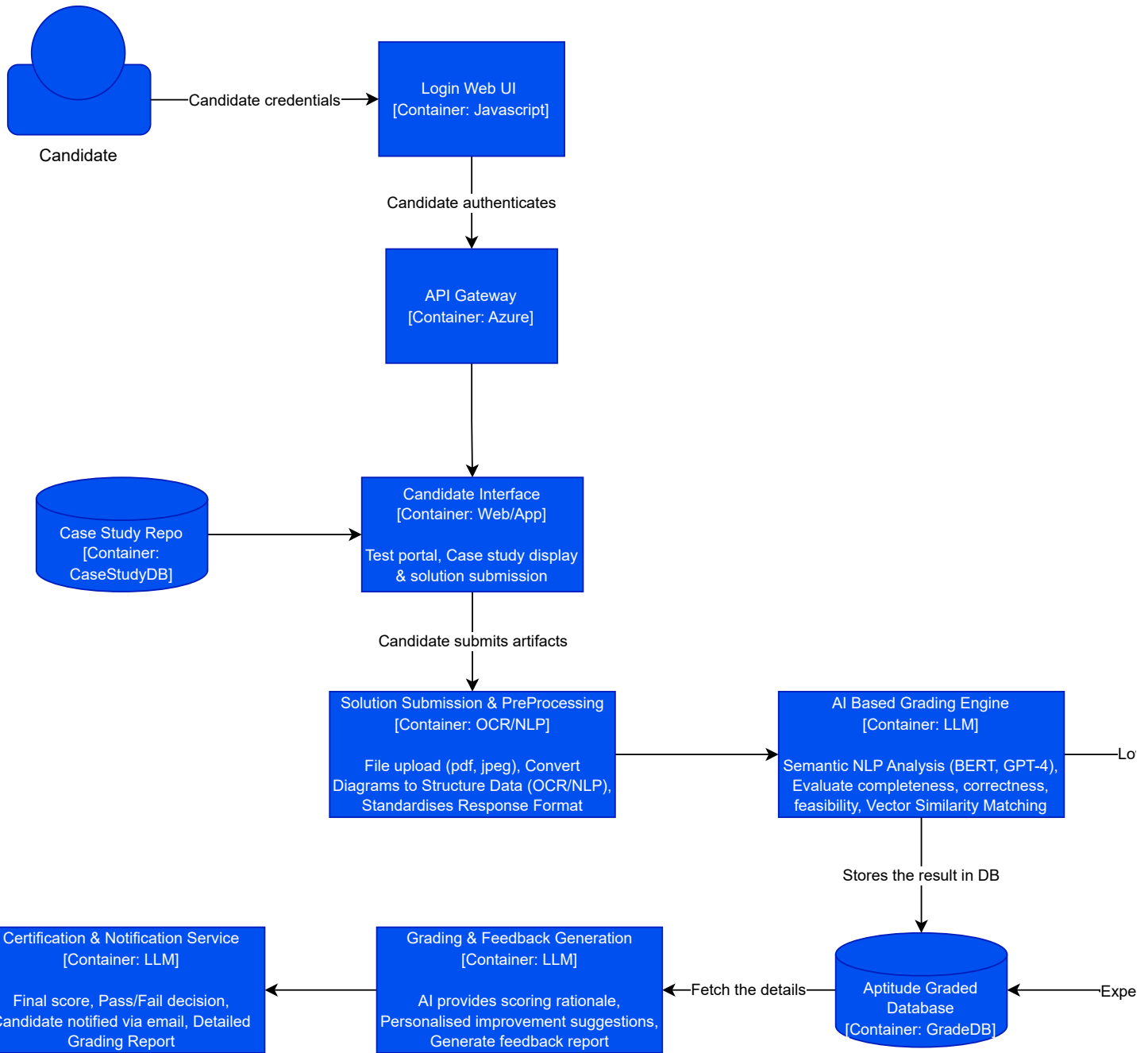
[Container: HITL]

Review

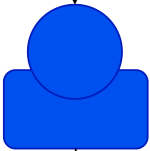








w Confidence Score



rt review

Expert  
[Container: HITL]

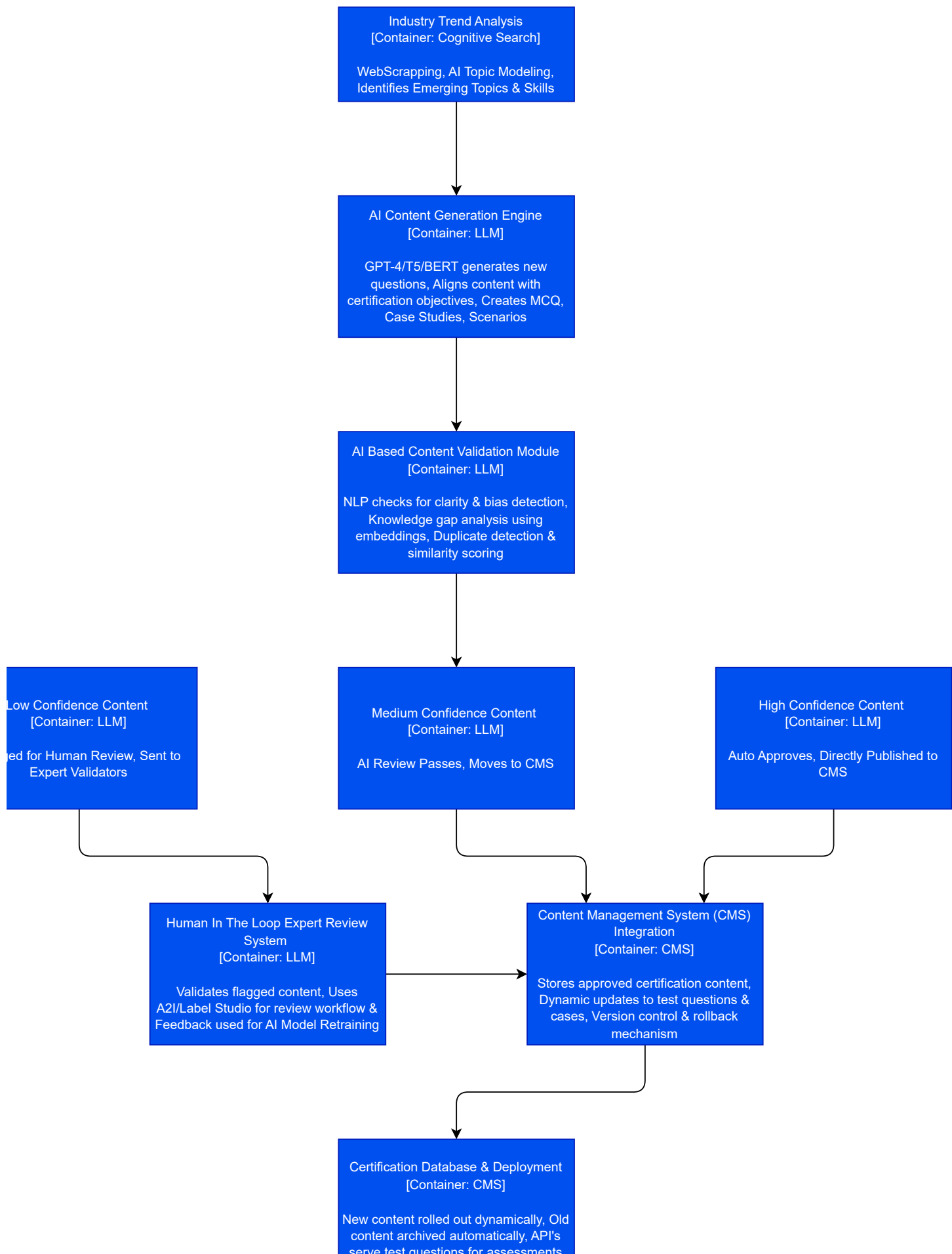












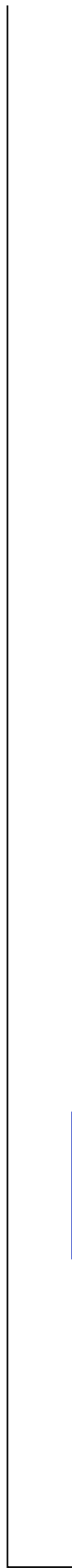


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Candidate & Expert Self Service Portal  
[Container: UI/WebApp]

Registration & Profile Management,  
Candidate Progress Tracking, Expert  
Availability & Certification Tasks

Authentication & Access Control  
[Container: OAuth 2.0/ JWT]

RBAC, MFA

Automated Profile Management System  
[Container: LLM]

AI Driven Candidate & Expert Profile  
Processing, Document Verification (Azure  
AI), Profile Updates & Role Assignment

RPA Based Administration Workflow Automation  
[Container: RPA]

Automated Candidate Verification & Updates, AI driven  
Expert onboarding & credential checks, Tasks  
assignment for Expert review

Candidate Progress Monitoring  
[Container: Dashboard]

AI Track test completion & Dashboard  
visualizations

Expert Assignment  
[Container: Dashboard]

AI assigns tasks, Workload balancing

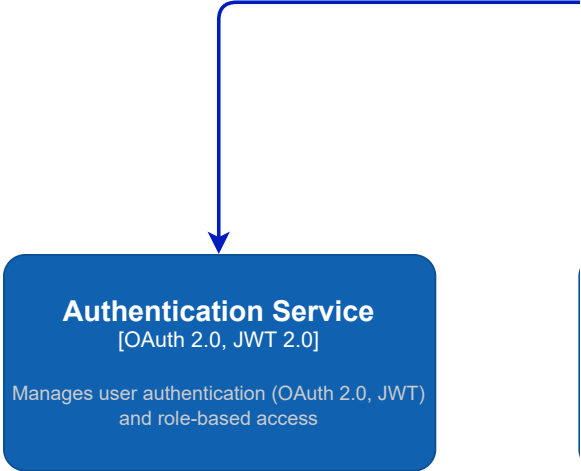
AI Based Certification Status  
[Container: Dashboard]

Certification status, Real time updates

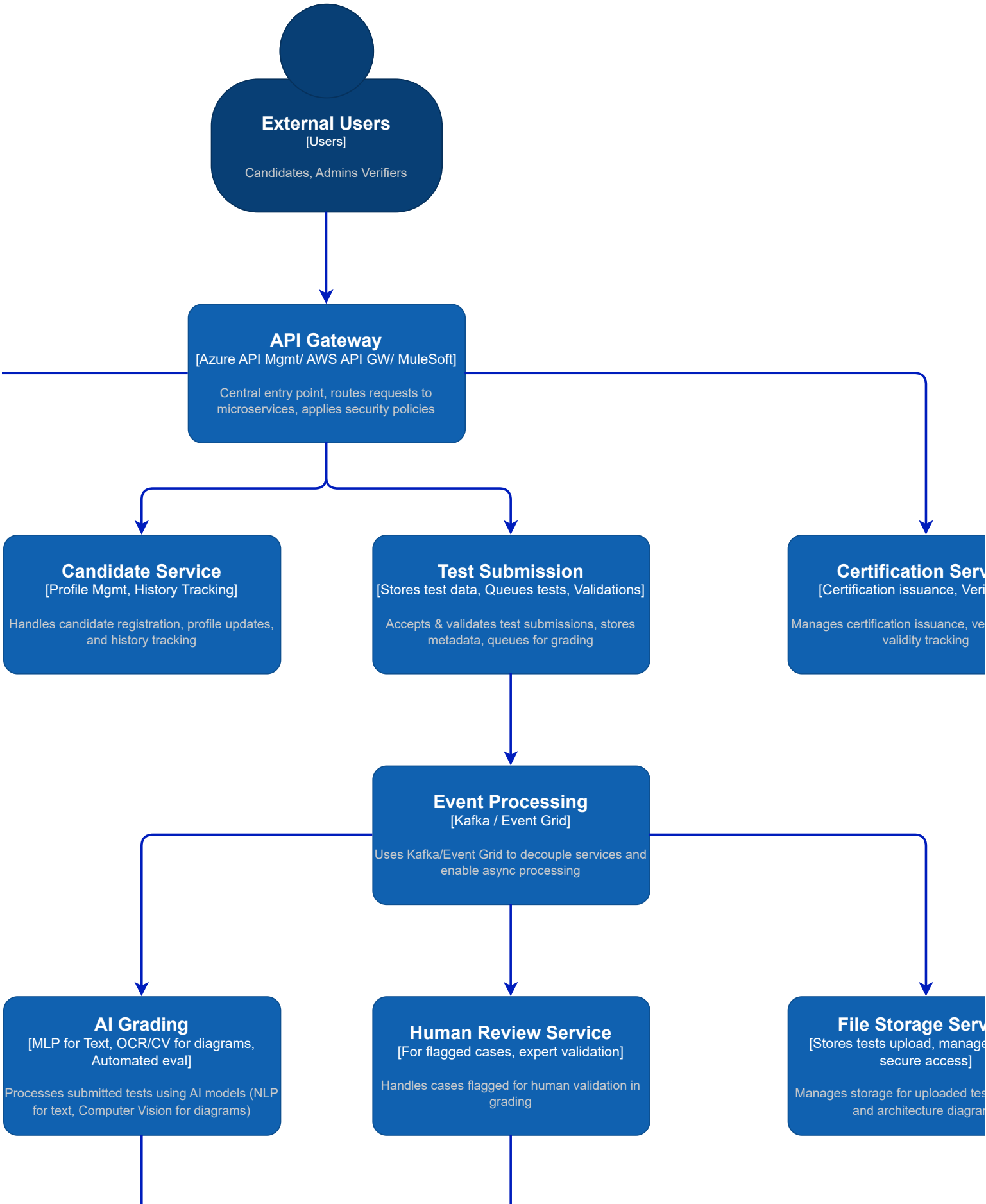
Admin Dashboard & Certification Reports  
[Container: Dashboard]

Centralised admin monitoring system, Predictive  
analytics for resource allocation, Audit logs &  
compliance tracking





# C2 Diagram: Scalable Microservice Architecture



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### Feedback & Notification Service

[AI generated feedback, Email/SMS updates, Candidate Notifications]

Sends automated emails, SMS, and push notifications for status updates



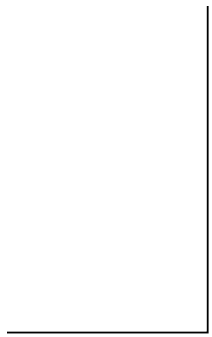
### Admin & Monitoring Service

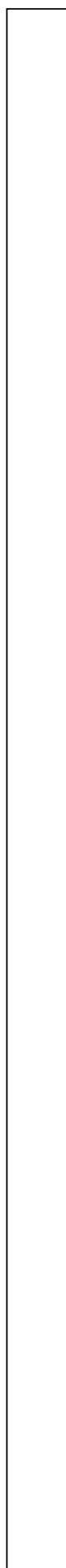
[Logs & Metrics, Performance alerts, Dashboard visualization]

Provides real-time dashboards, logs, and alerts for system performance

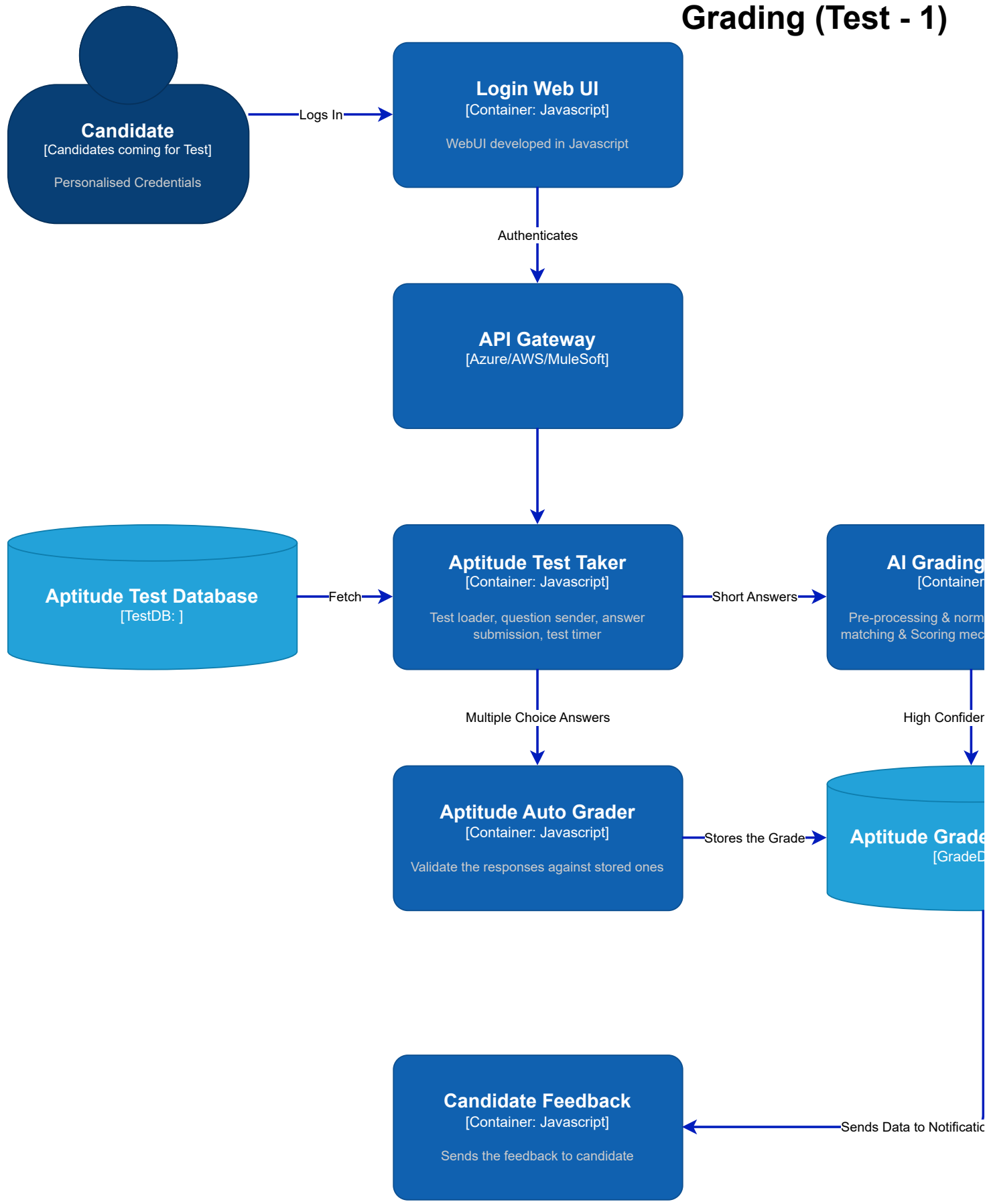




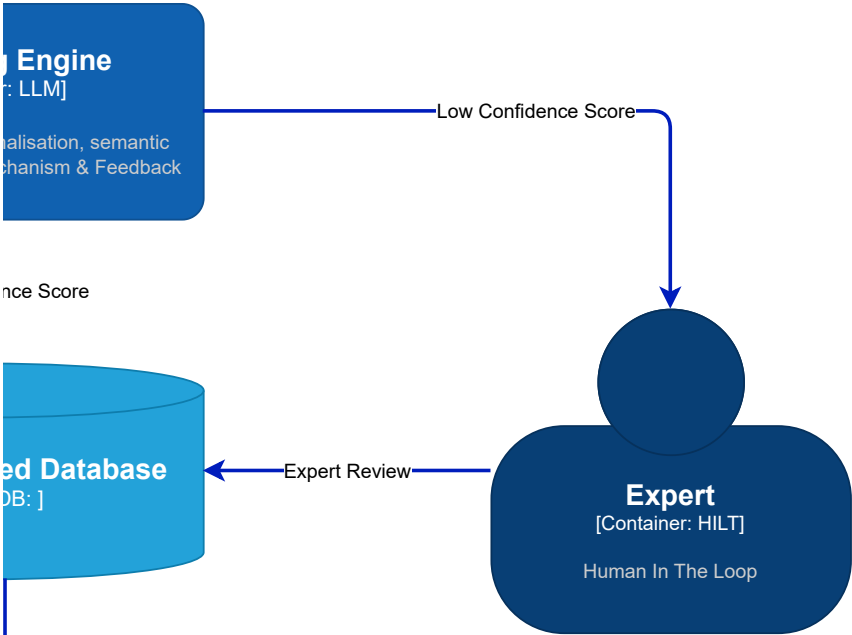




# C2 Diagram AI Powered Auto Grading (Test - 1)



omated

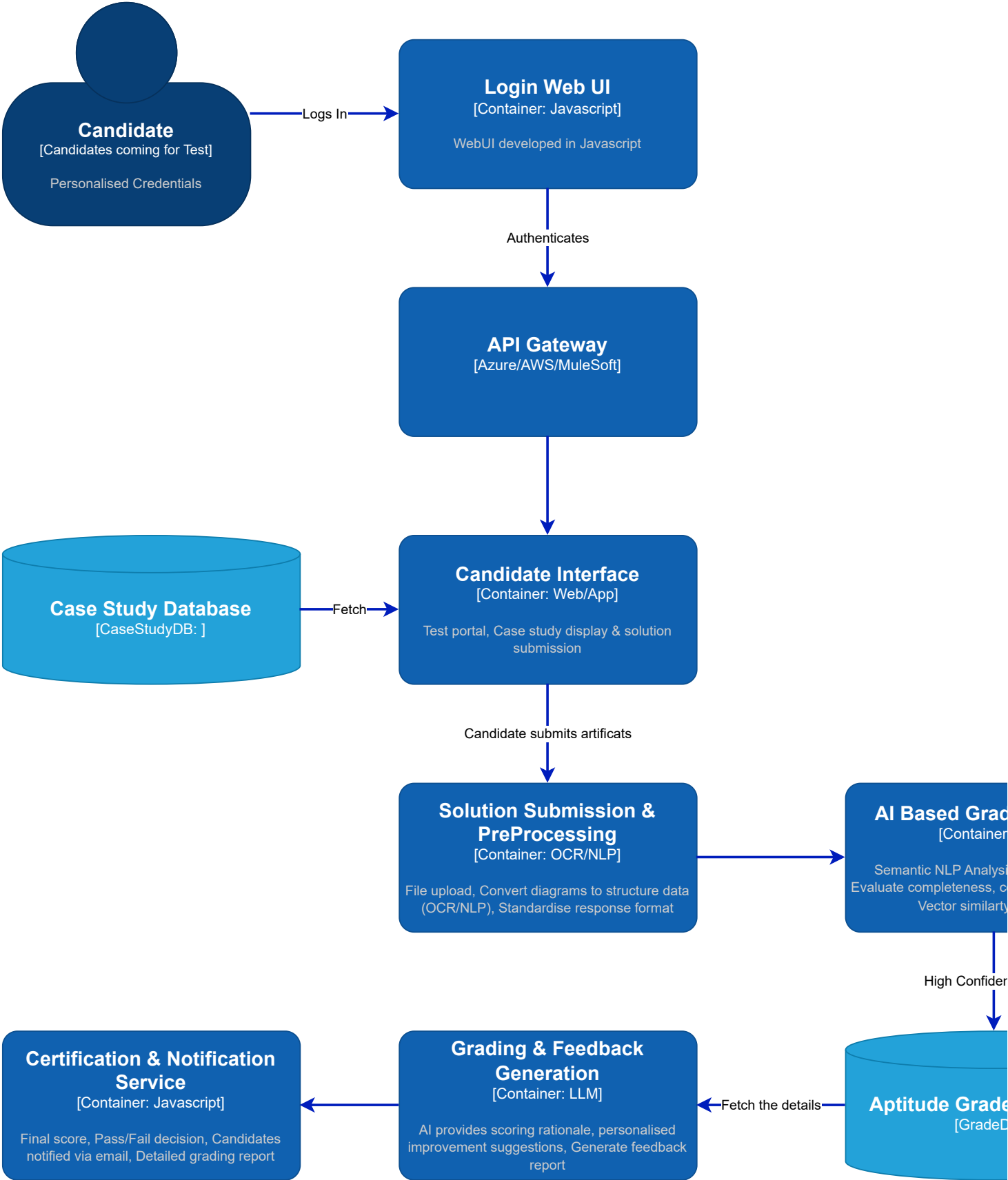




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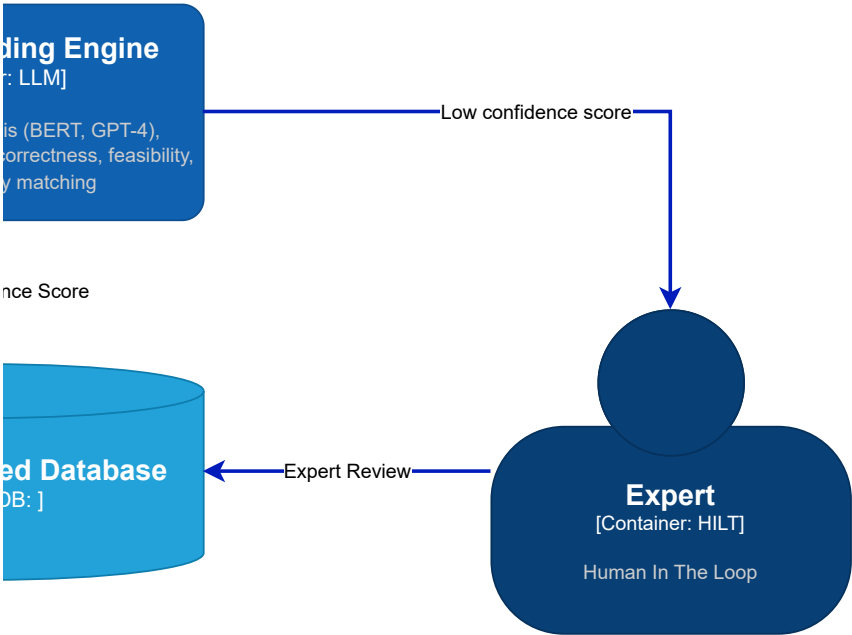
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# C2 Diagram AI Powered Automated Grad

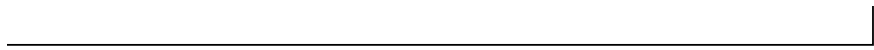




# ling (Test - 2)





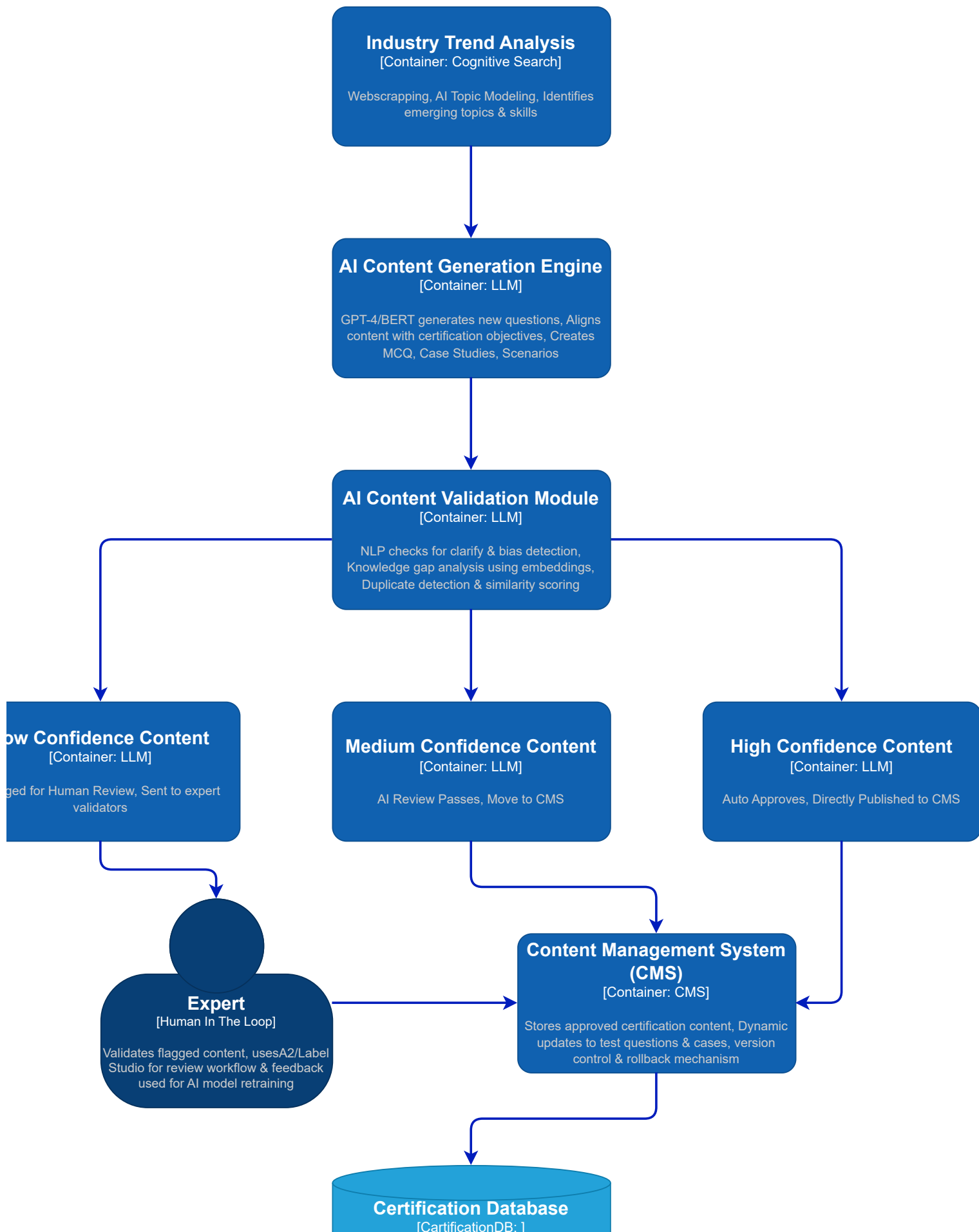






7











New content rolled out dynamically, Old content  
archived automatically, API's serve test  
questions for assessment

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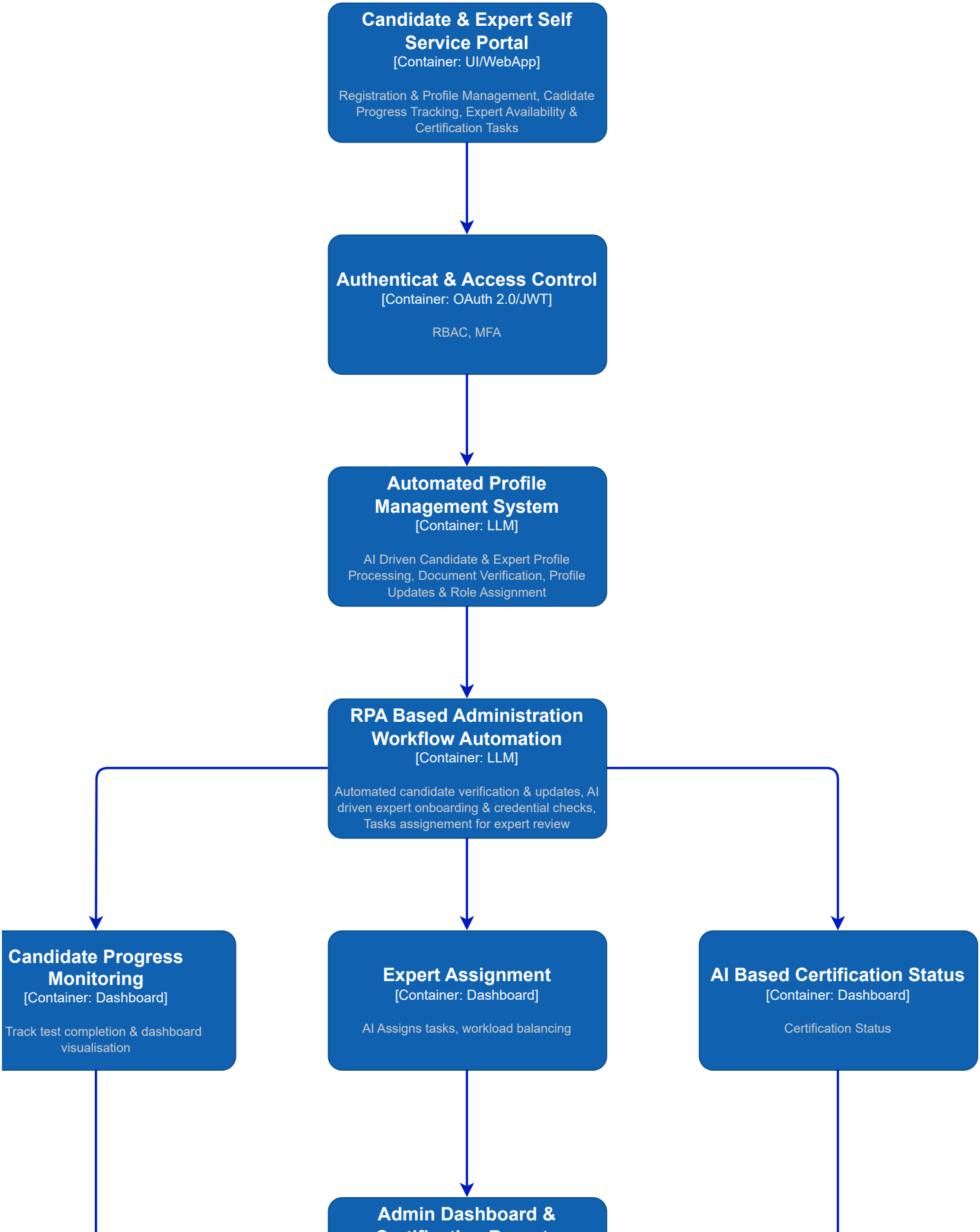














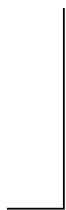


**Certification Reports**

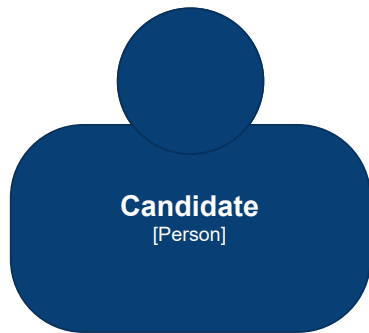
[Container: Dashboard]

Centralised admin monitoring system, Predictive analytics for resource allocation, Audit logs & compliance tracking

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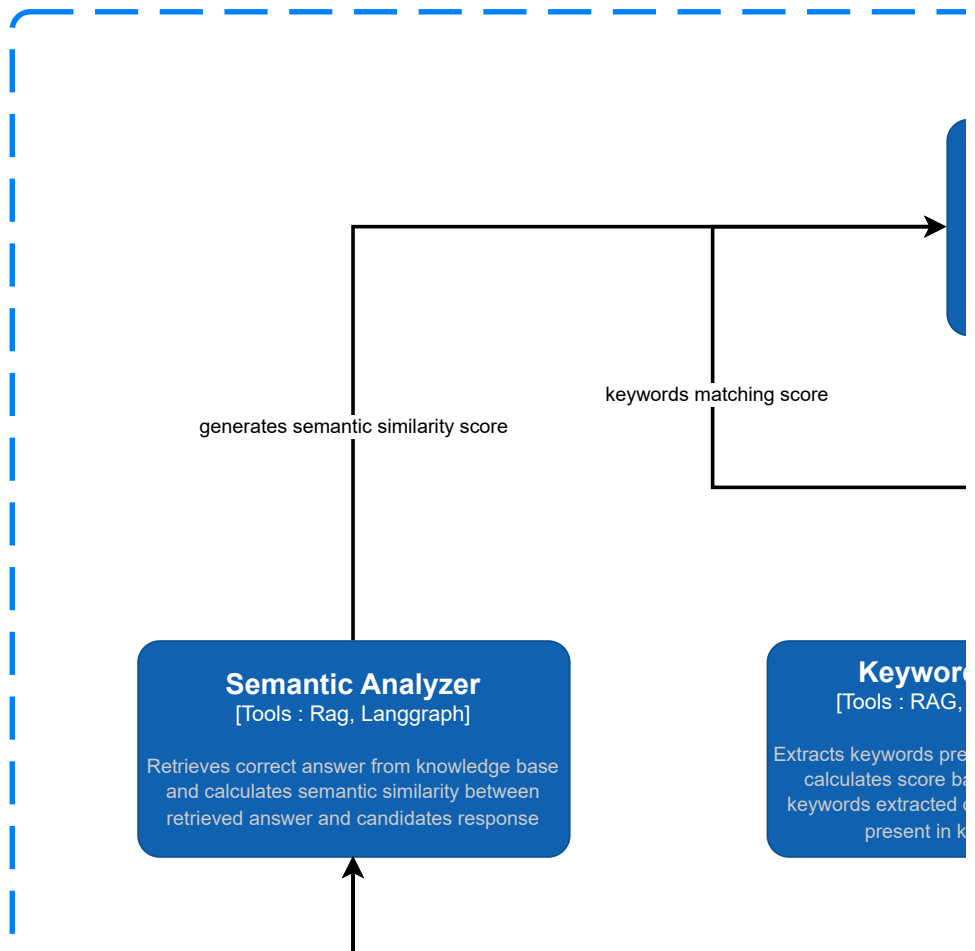


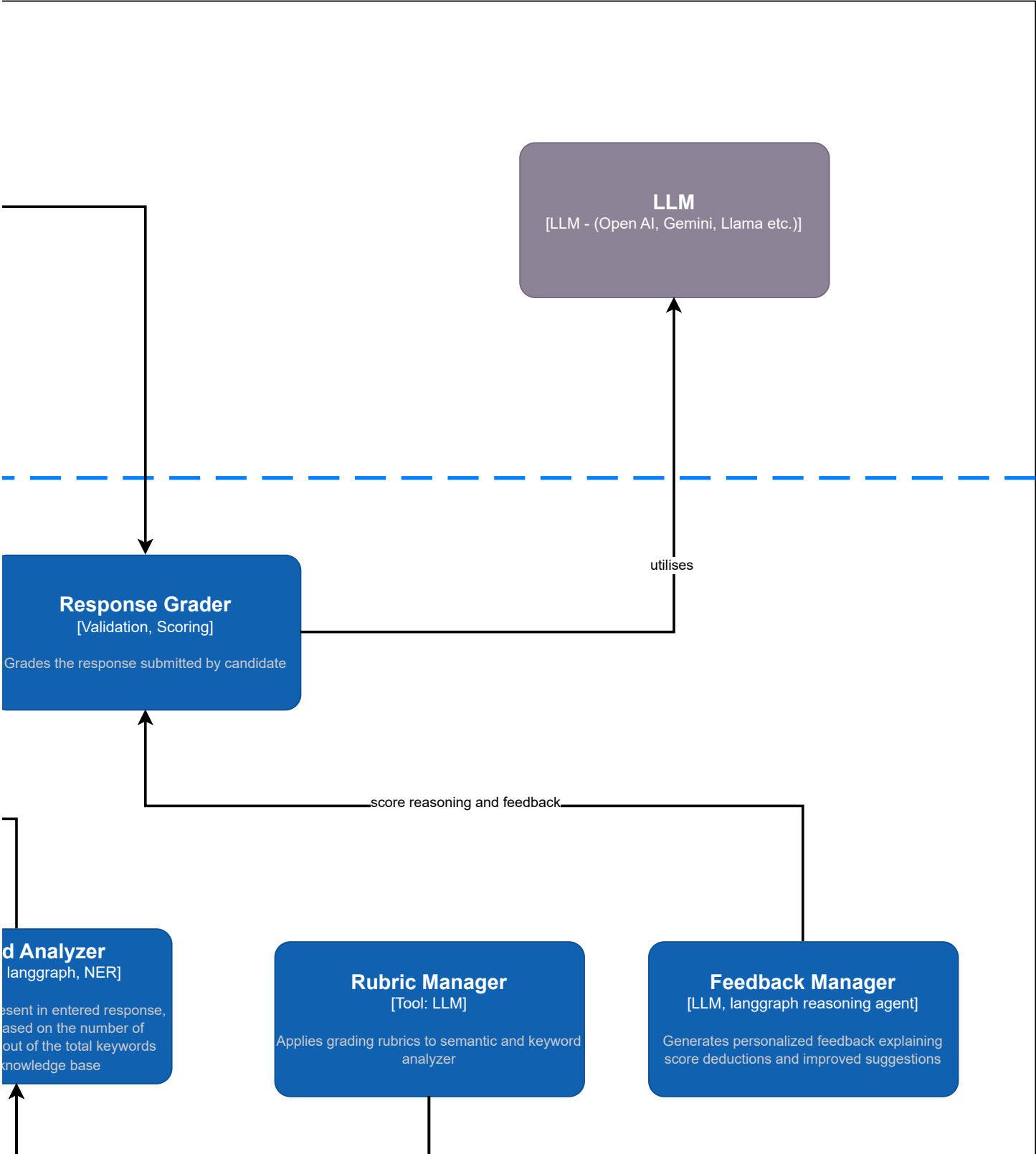




candidate's response

### C3 - Component Diagram (AI Grading Engine)









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## C4 Diagr



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## C2 Diagram: Scalable Micros

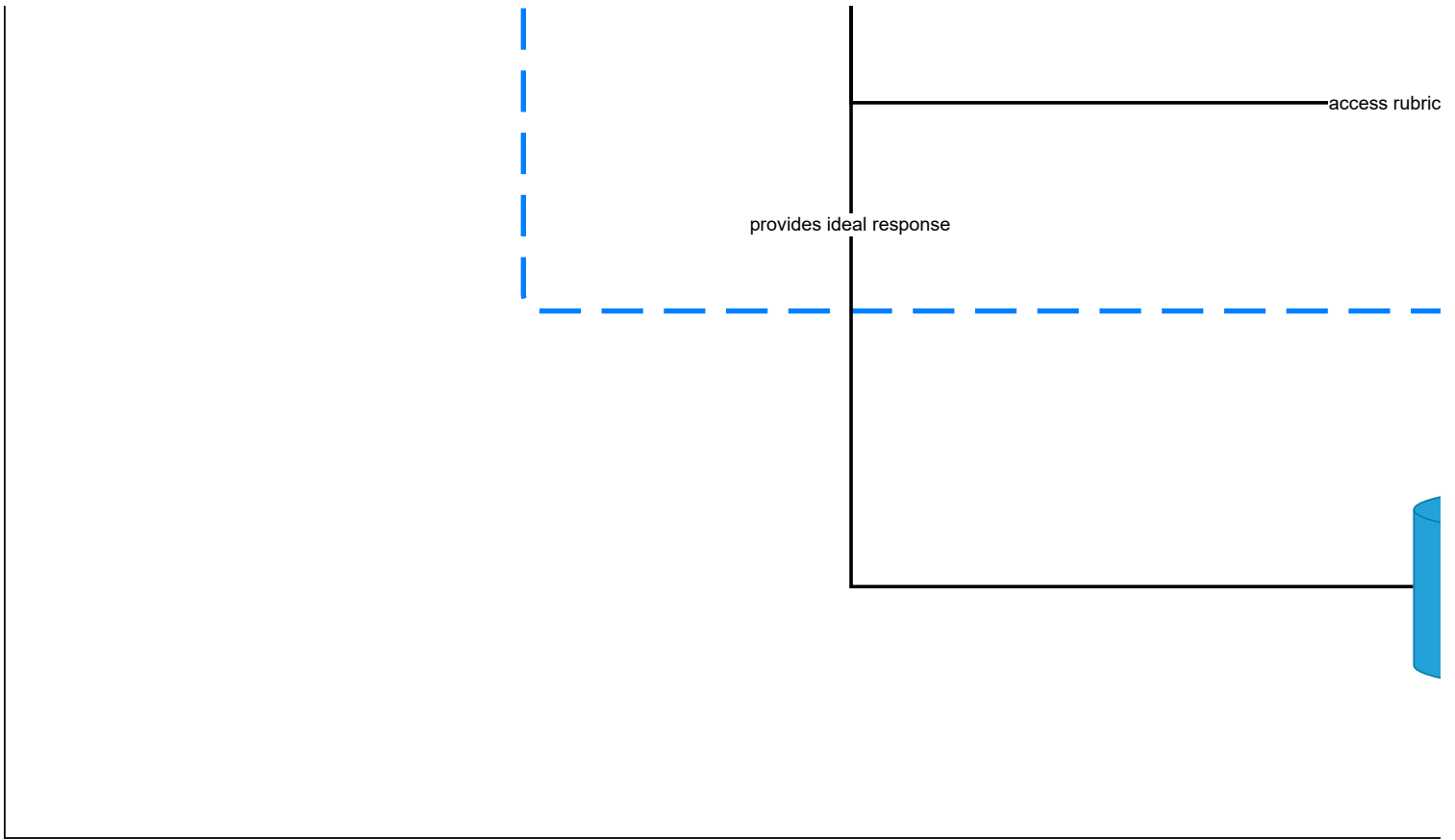


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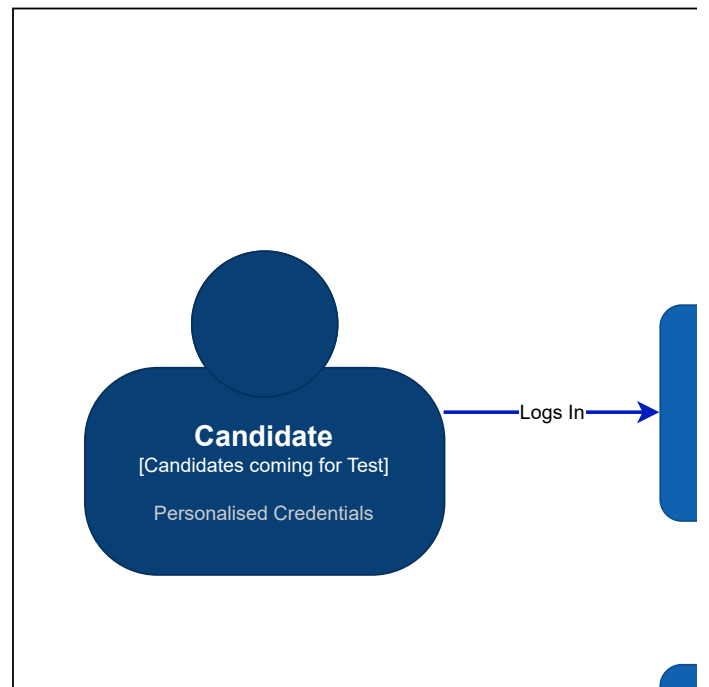
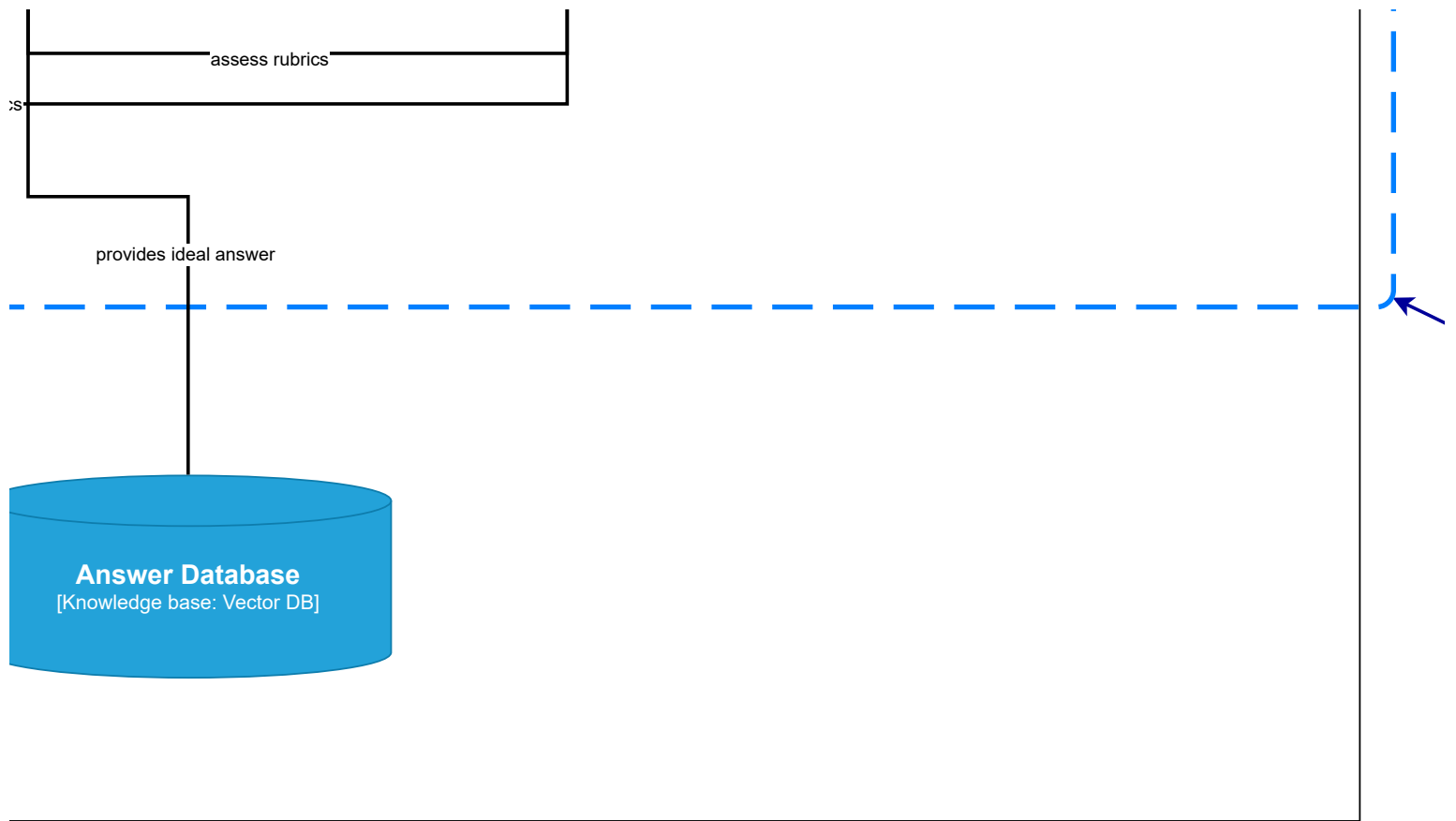
**service Architecture**

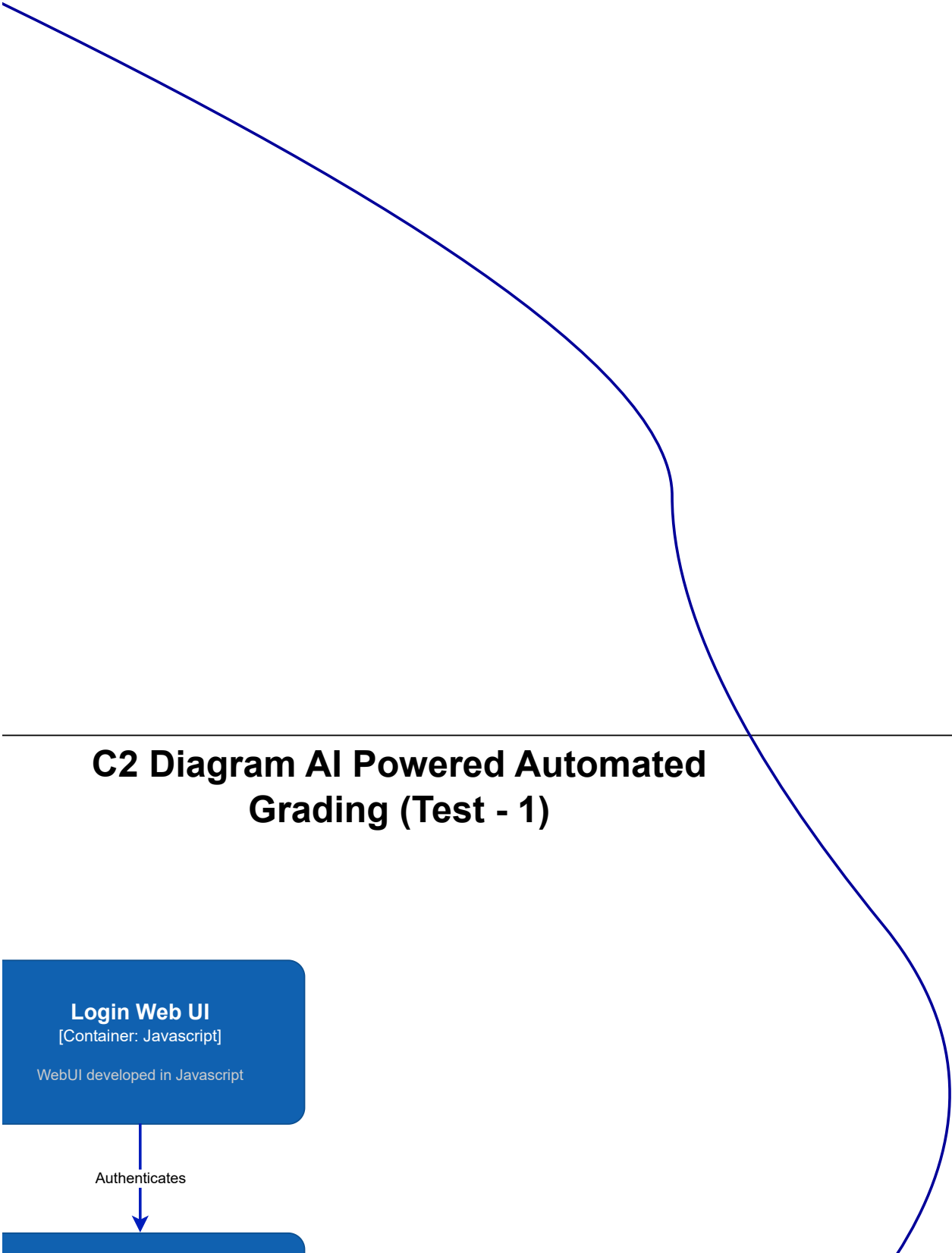




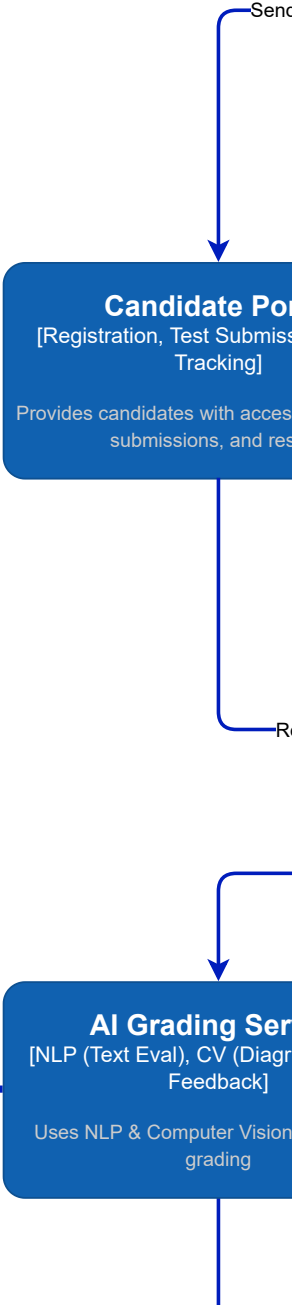
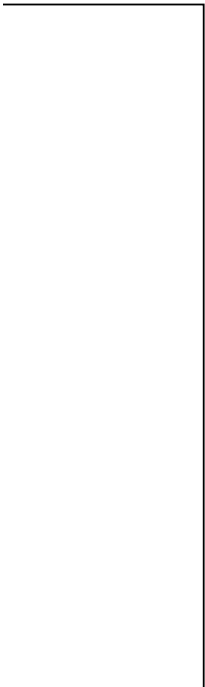




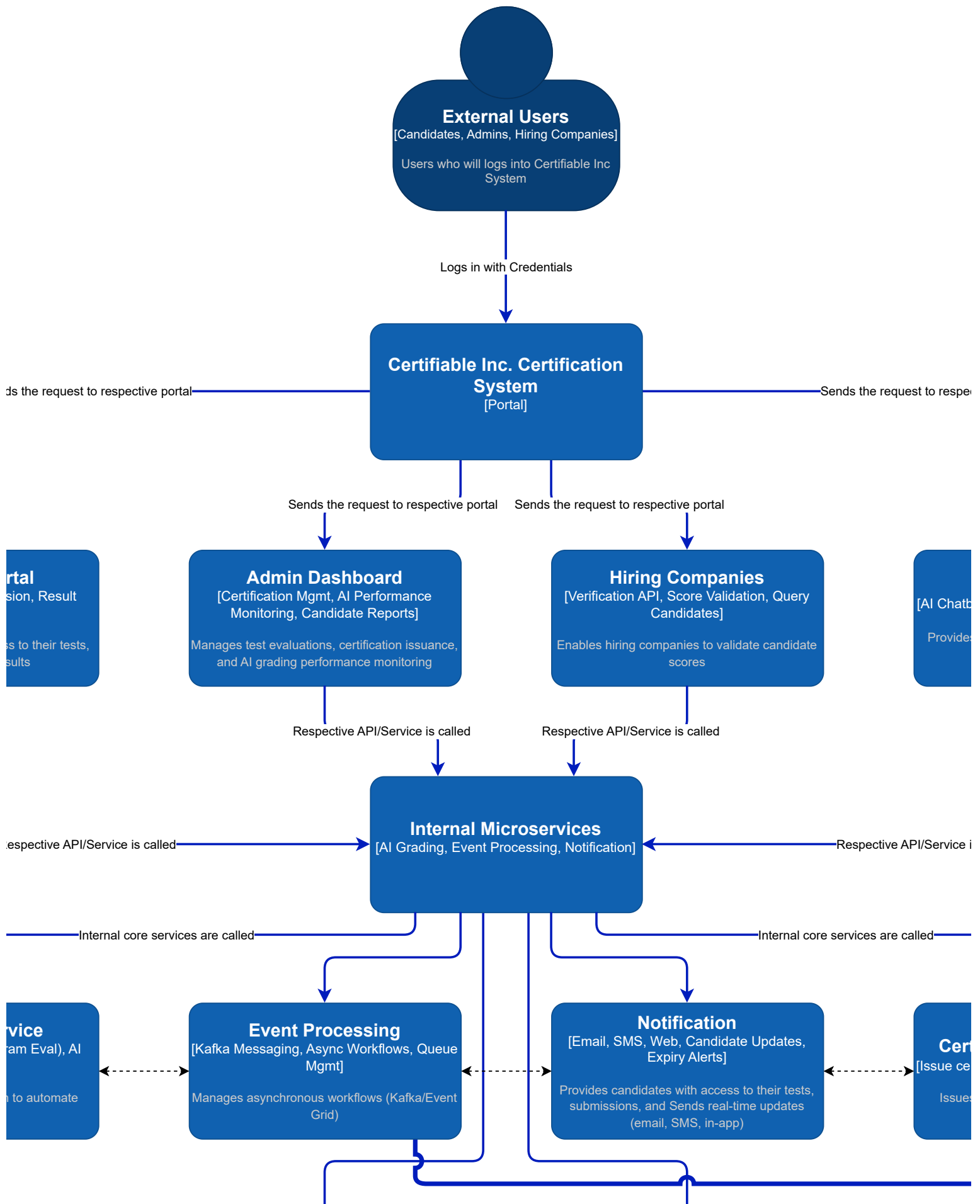


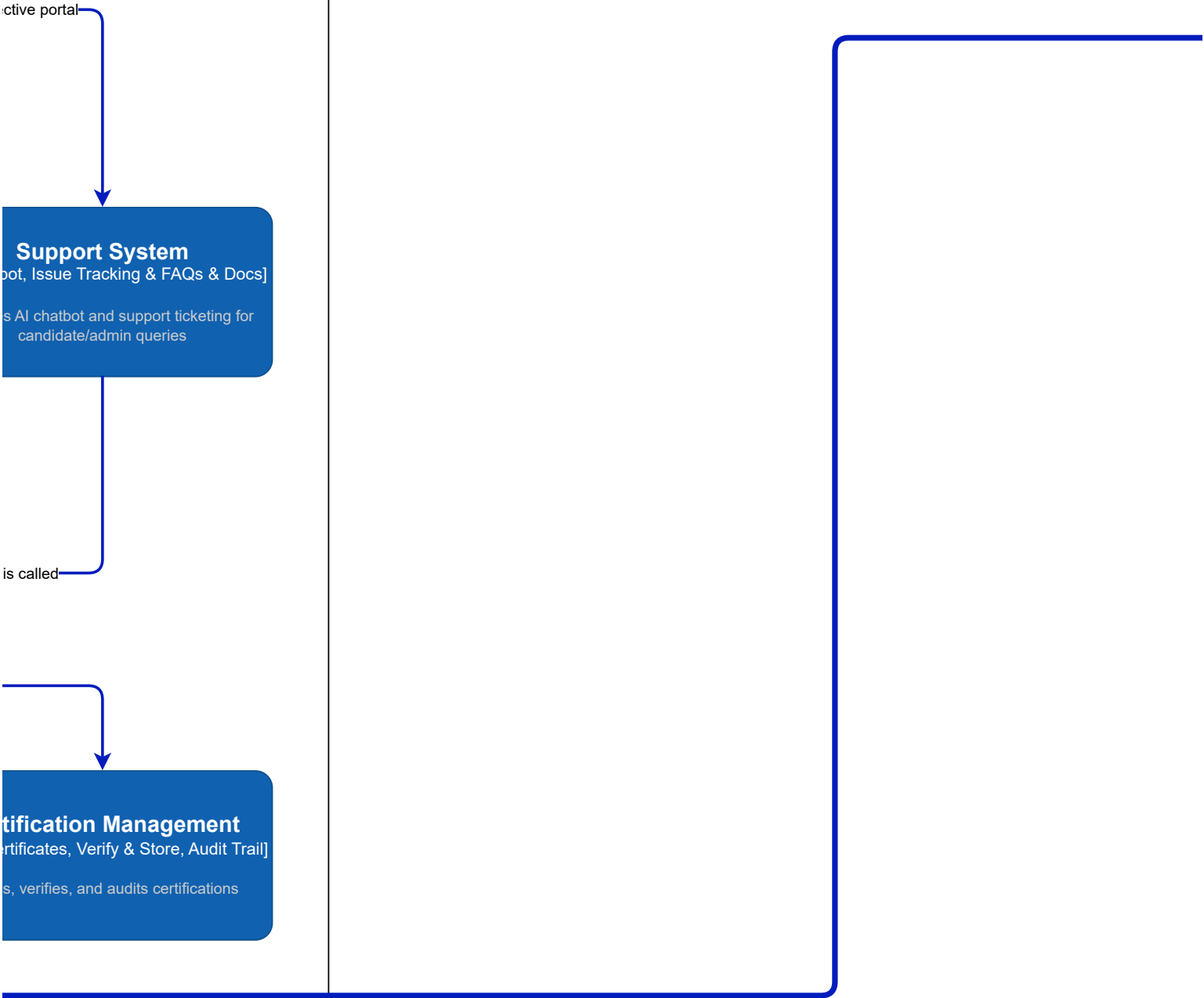


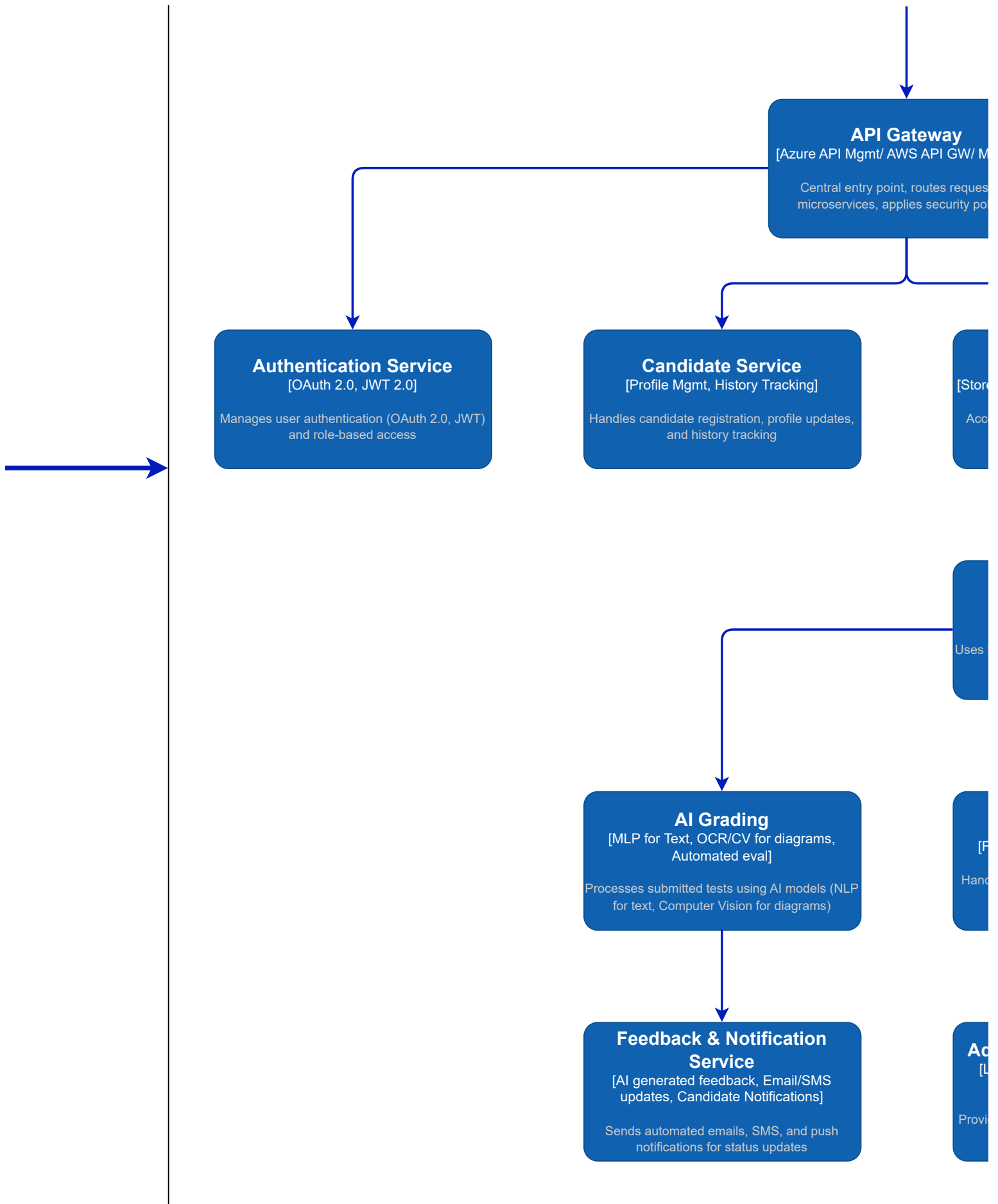
## C2 Diagram AI Powered Automated Grading (Test - 1)

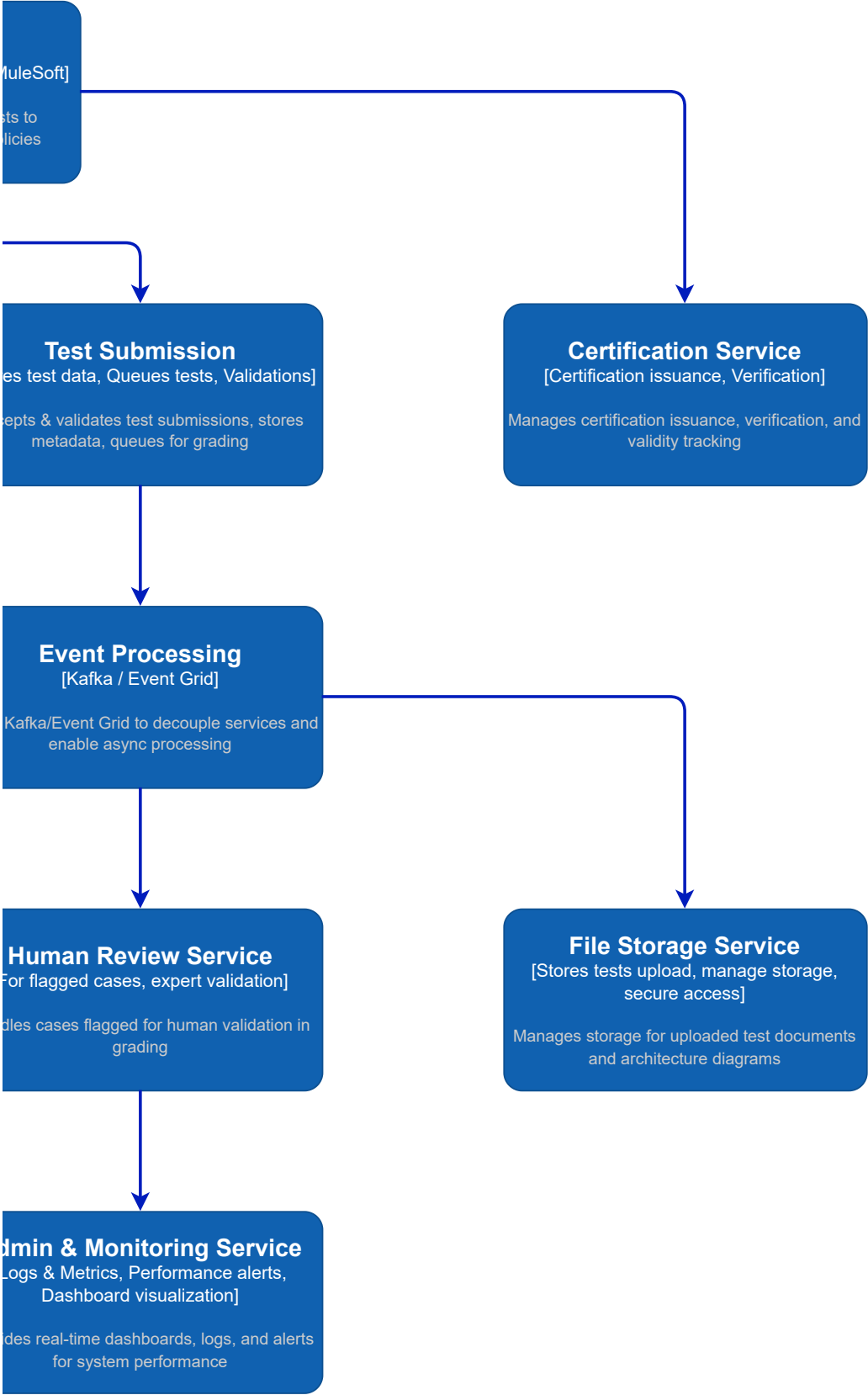


### U1 Diagram: System Context Diagram





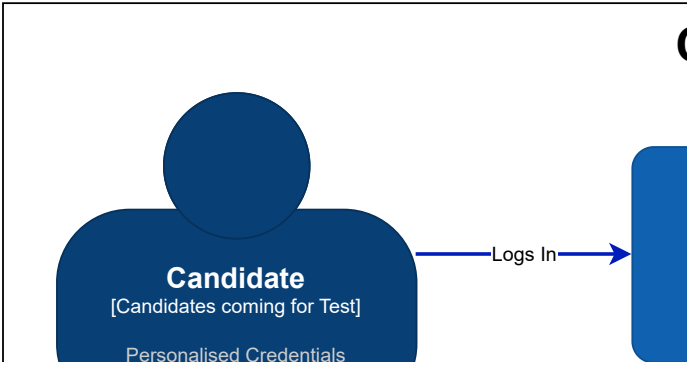
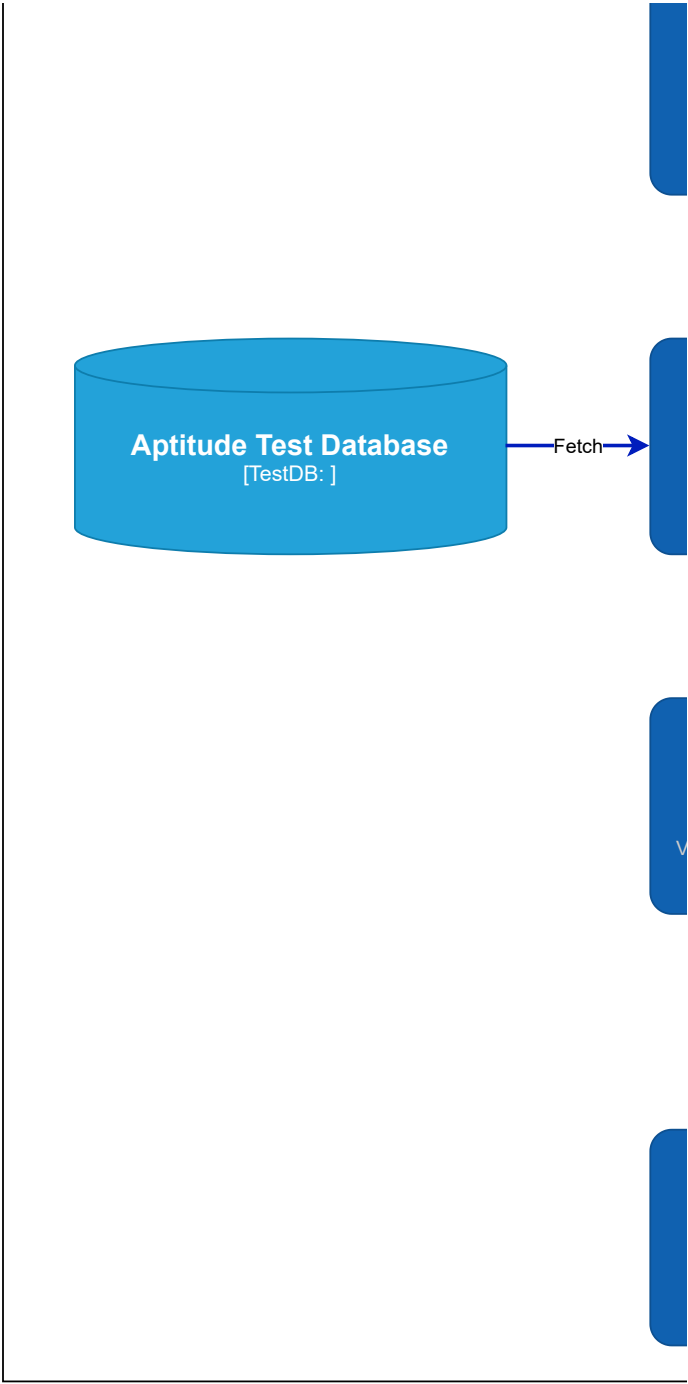


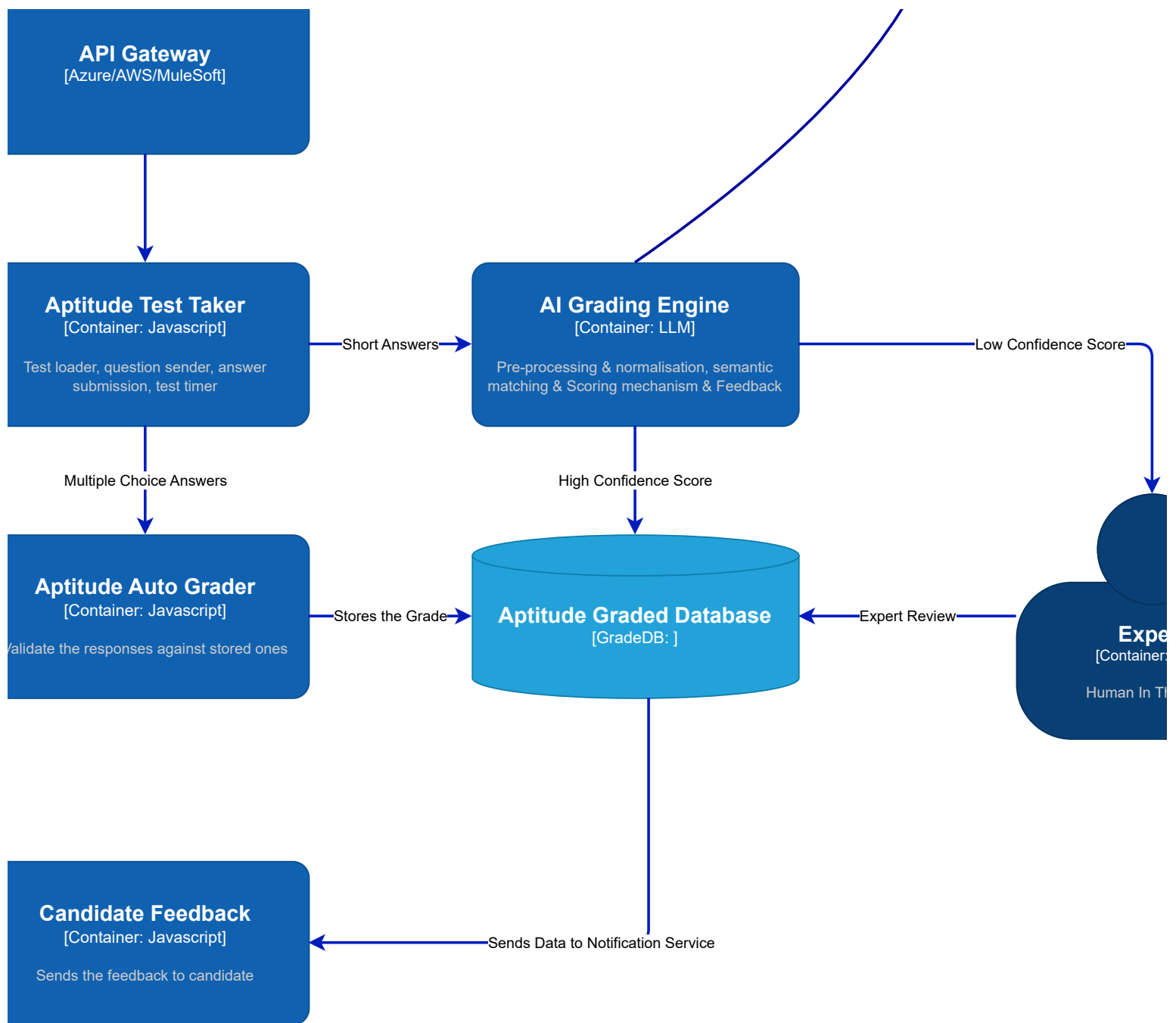




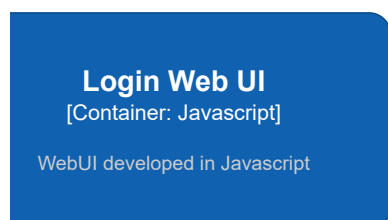








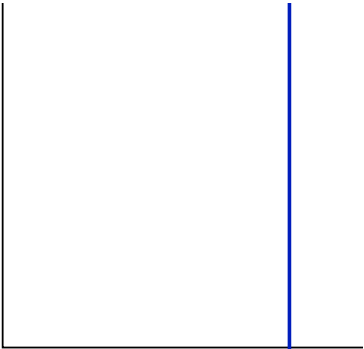
## C2 Diagram AI Powered Automated Grading (Test - 2)

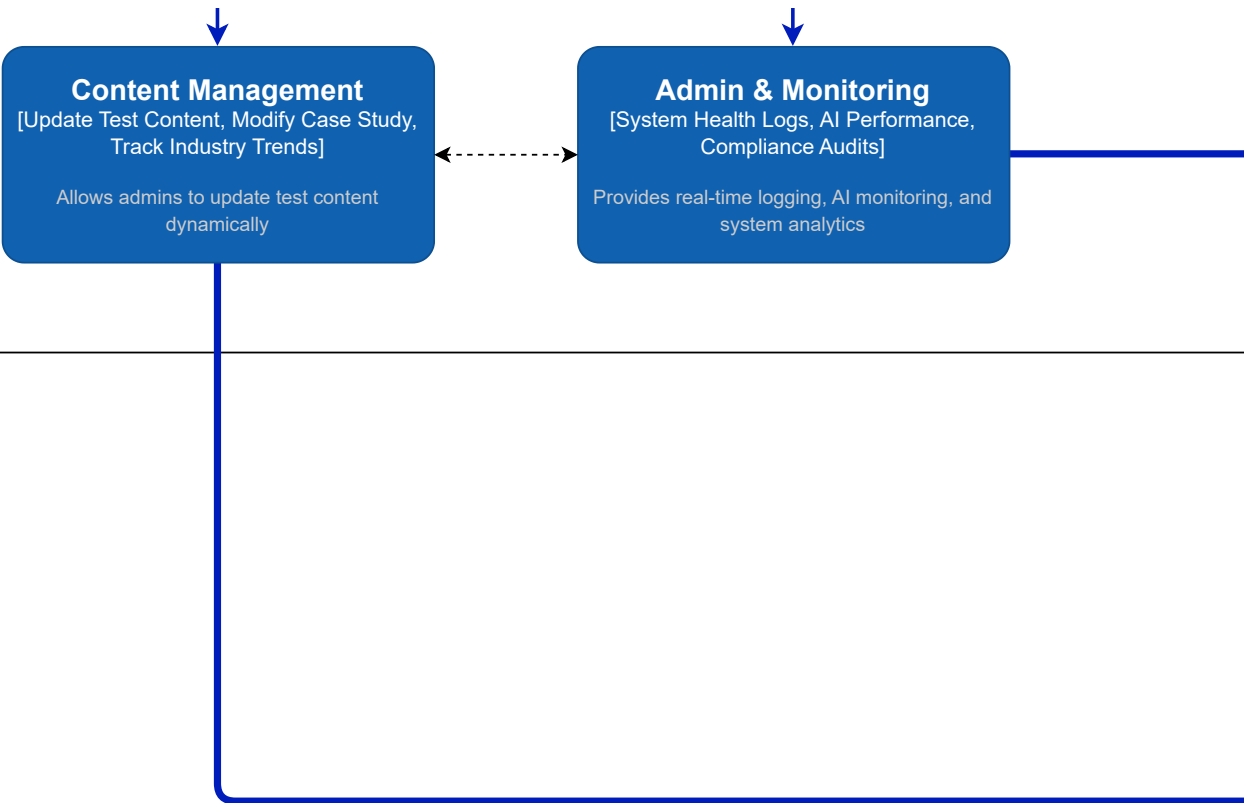


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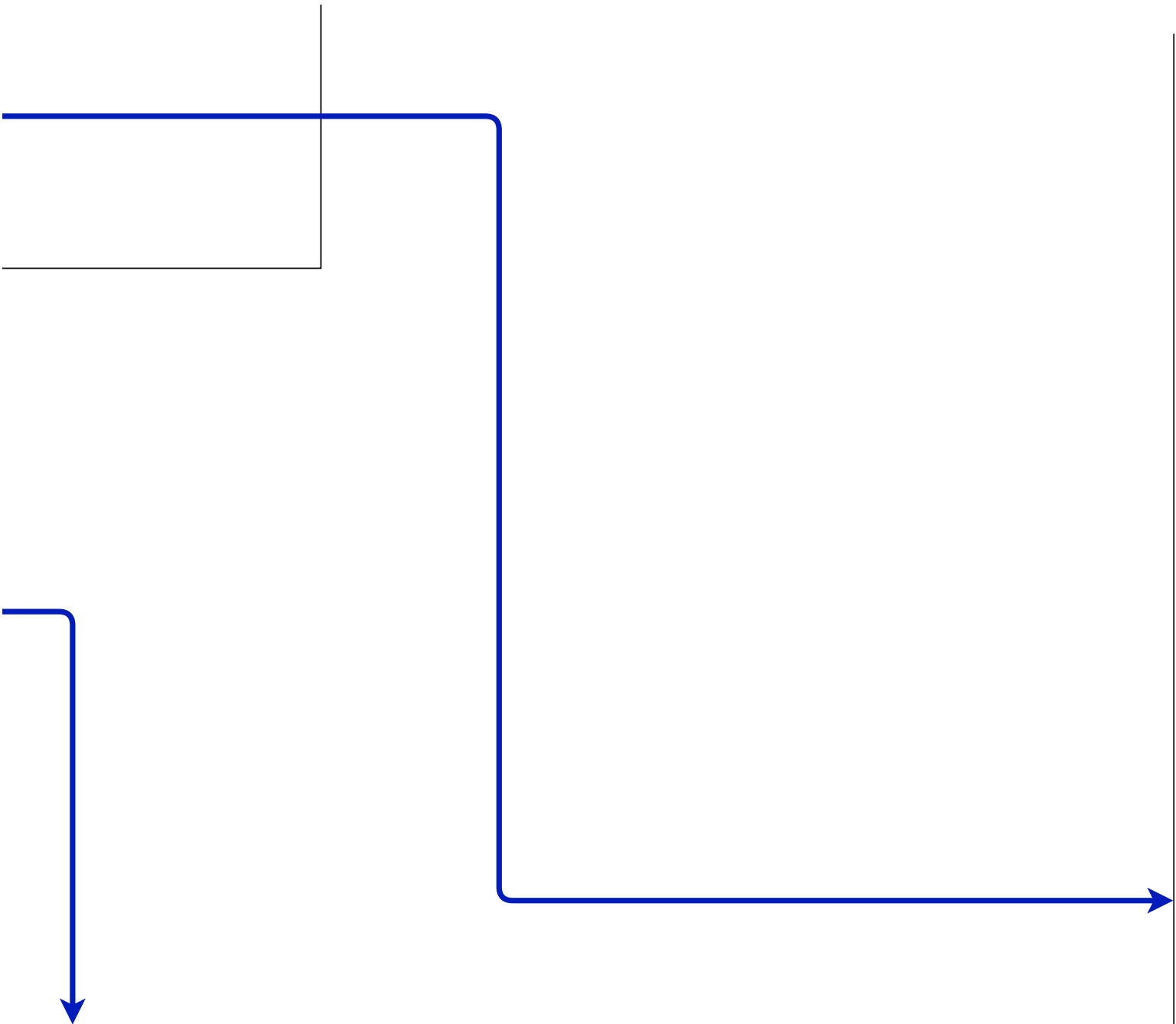




C2 Diagram

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# AI Powered Certification Updates

## Industry Trend Analysis

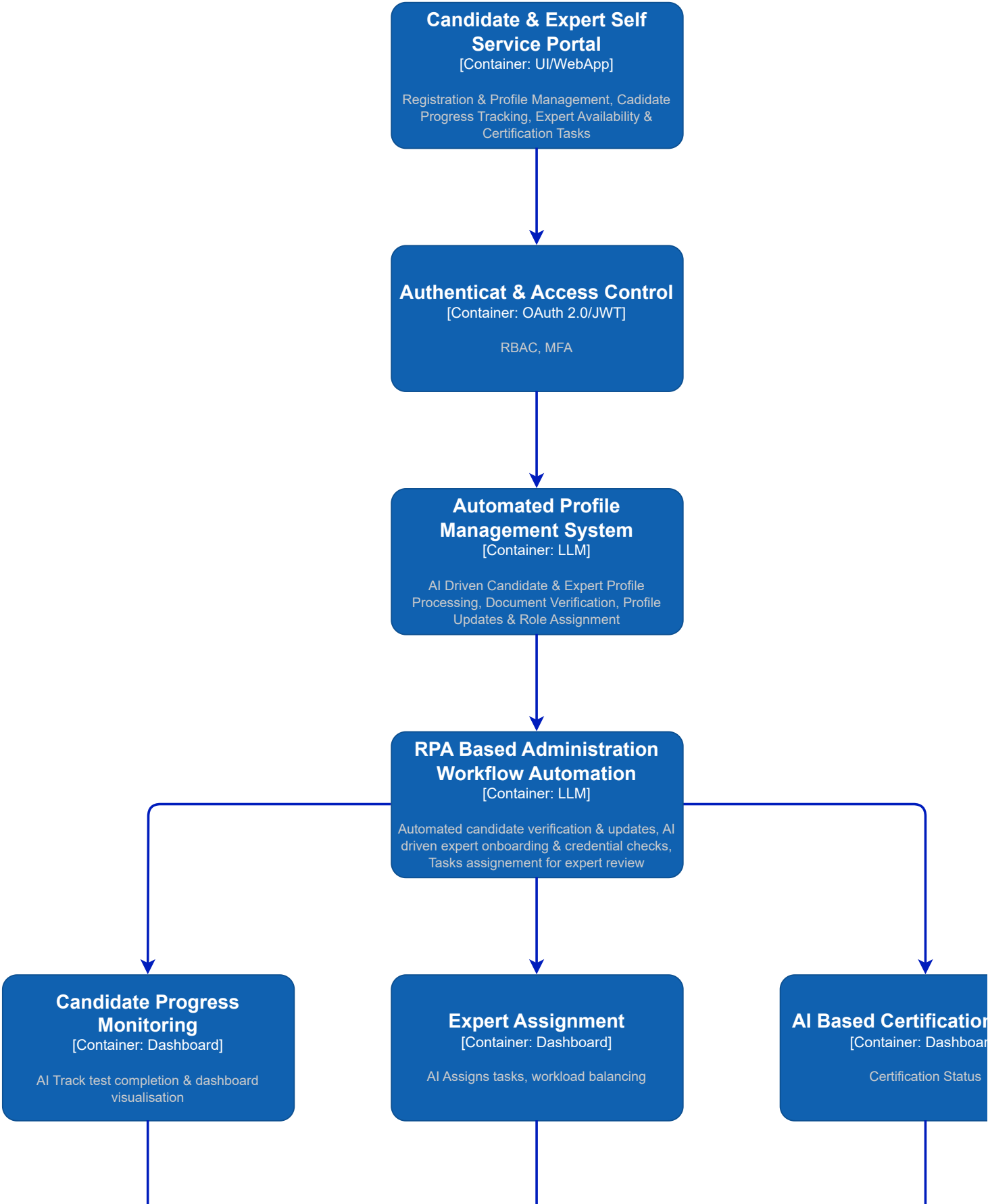
[Container: Cognitive Search]

Mapping, AI Topic Modeling, Identifies emerging topics & skills

## Content Generation Engine

[Container: LLM]

# C2 Diagram AI Powered Administration Automation System

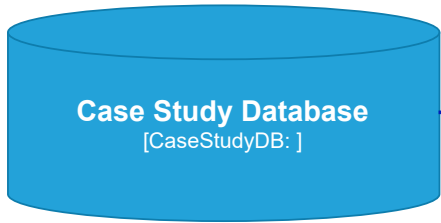








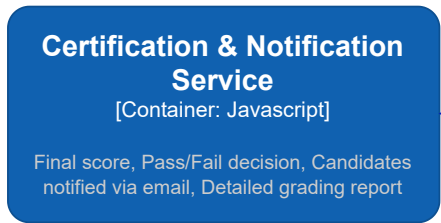




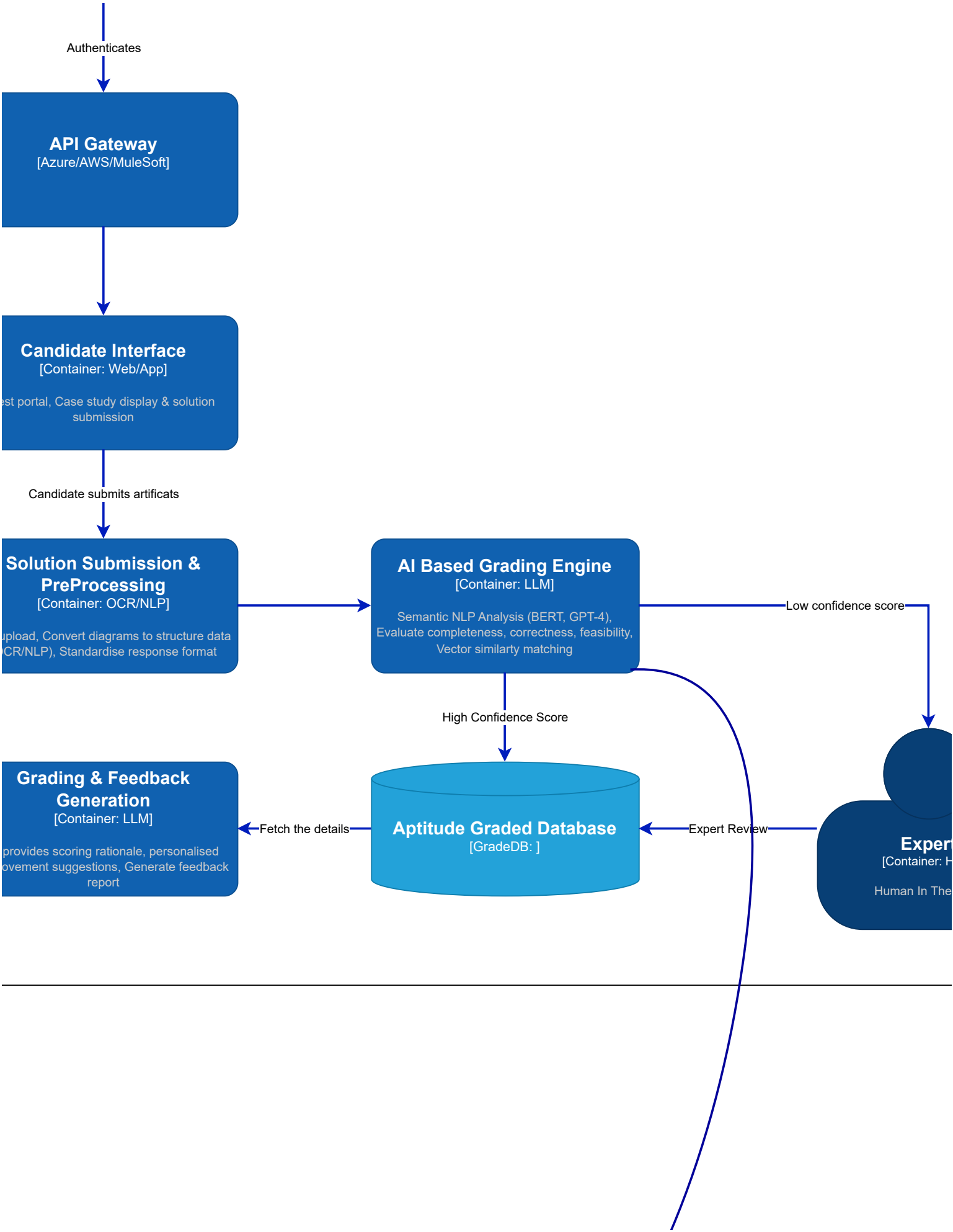
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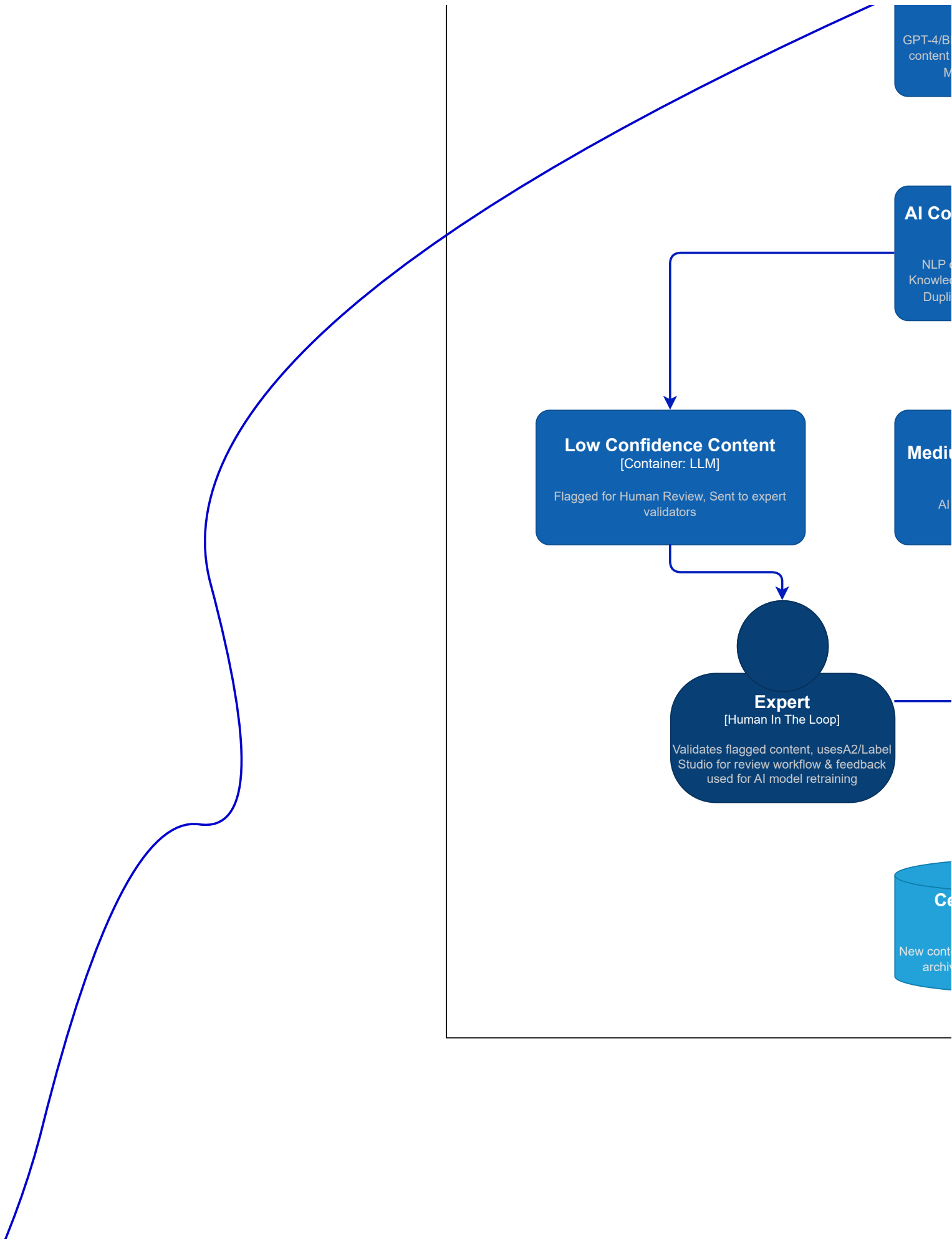
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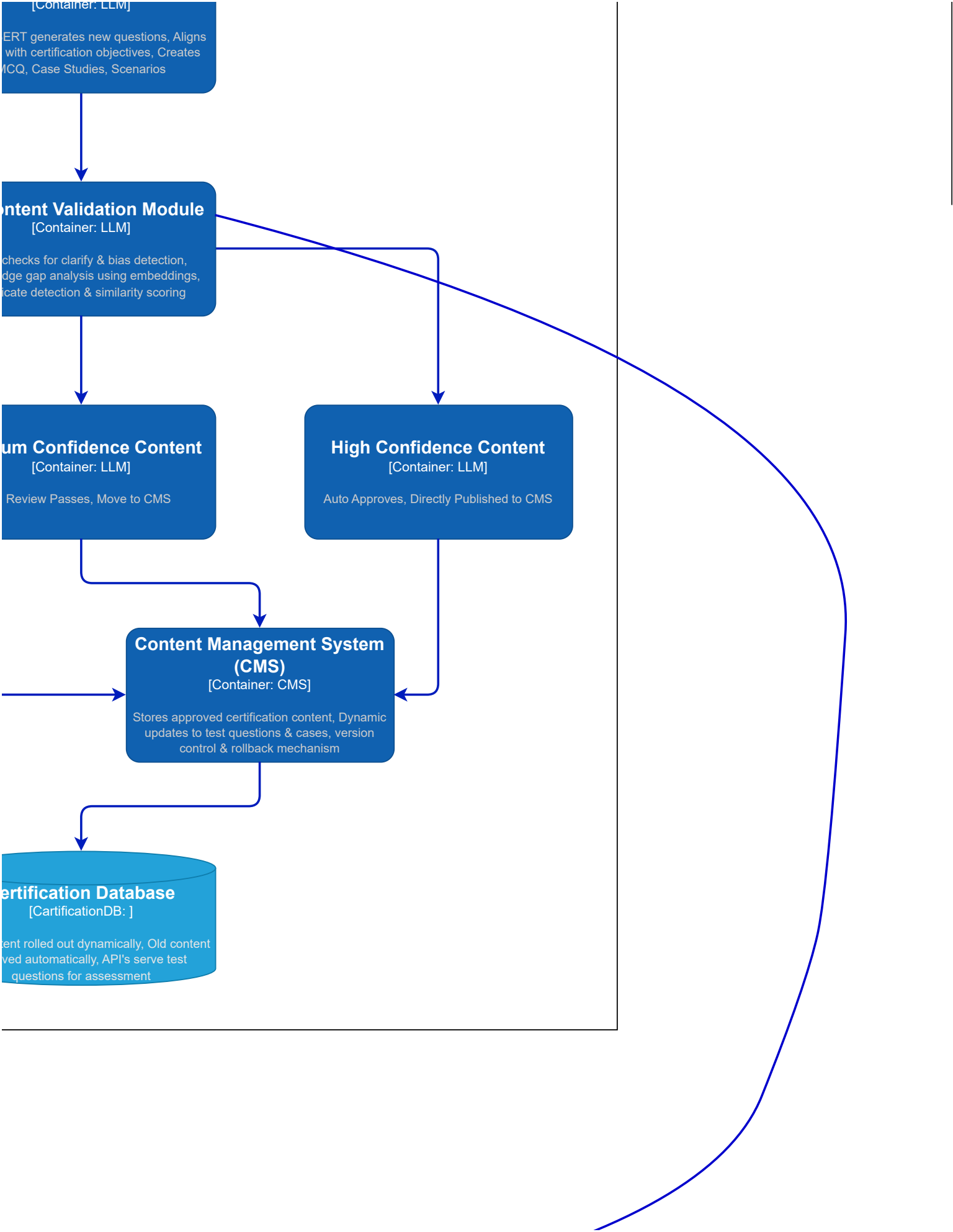
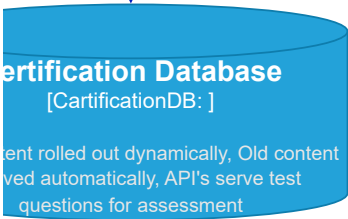
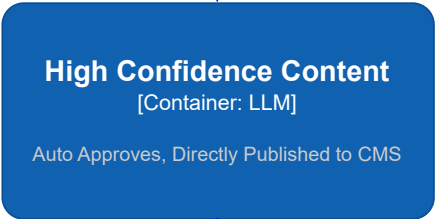
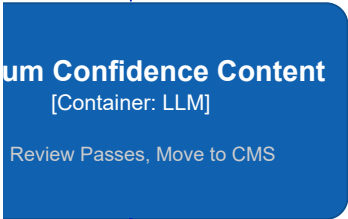
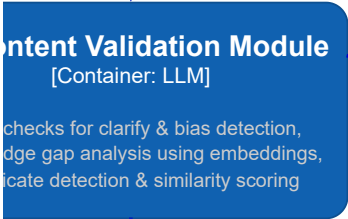
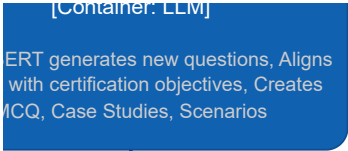


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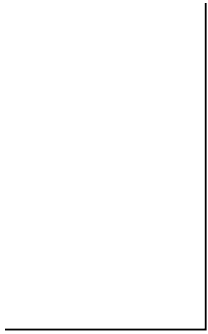
The diagram features a central blue rounded rectangle representing a container. Three blue arrows point towards it: one from the top, one from the left, and one from the right. The left and right arrows are part of a larger U-shaped line that also extends downwards along the left and right edges of the page. A horizontal line runs across the bottom of the page.

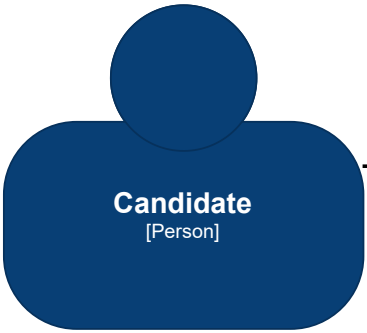
## Admin Dashboard & Certification Reports

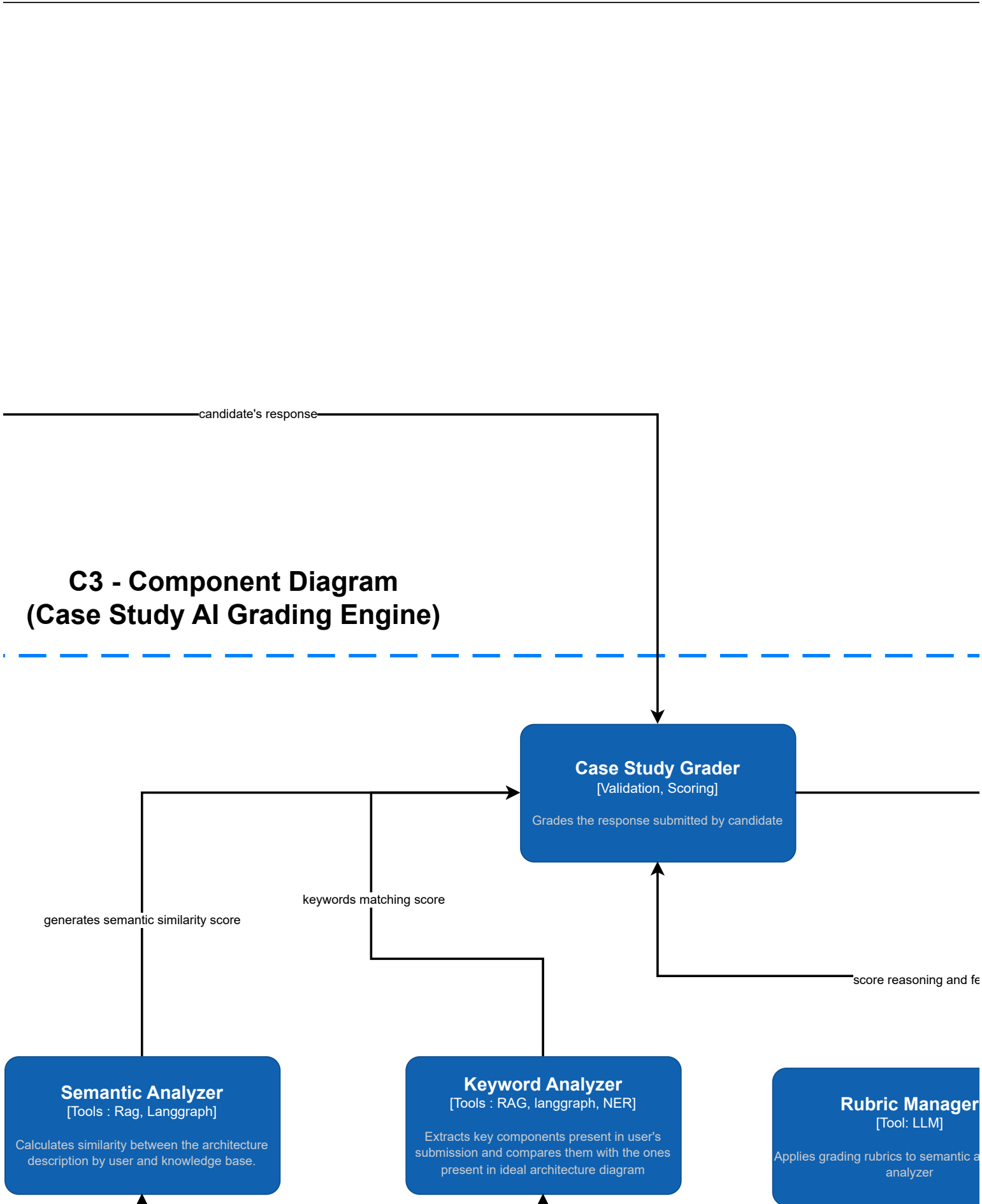
[Container: Dashboard]

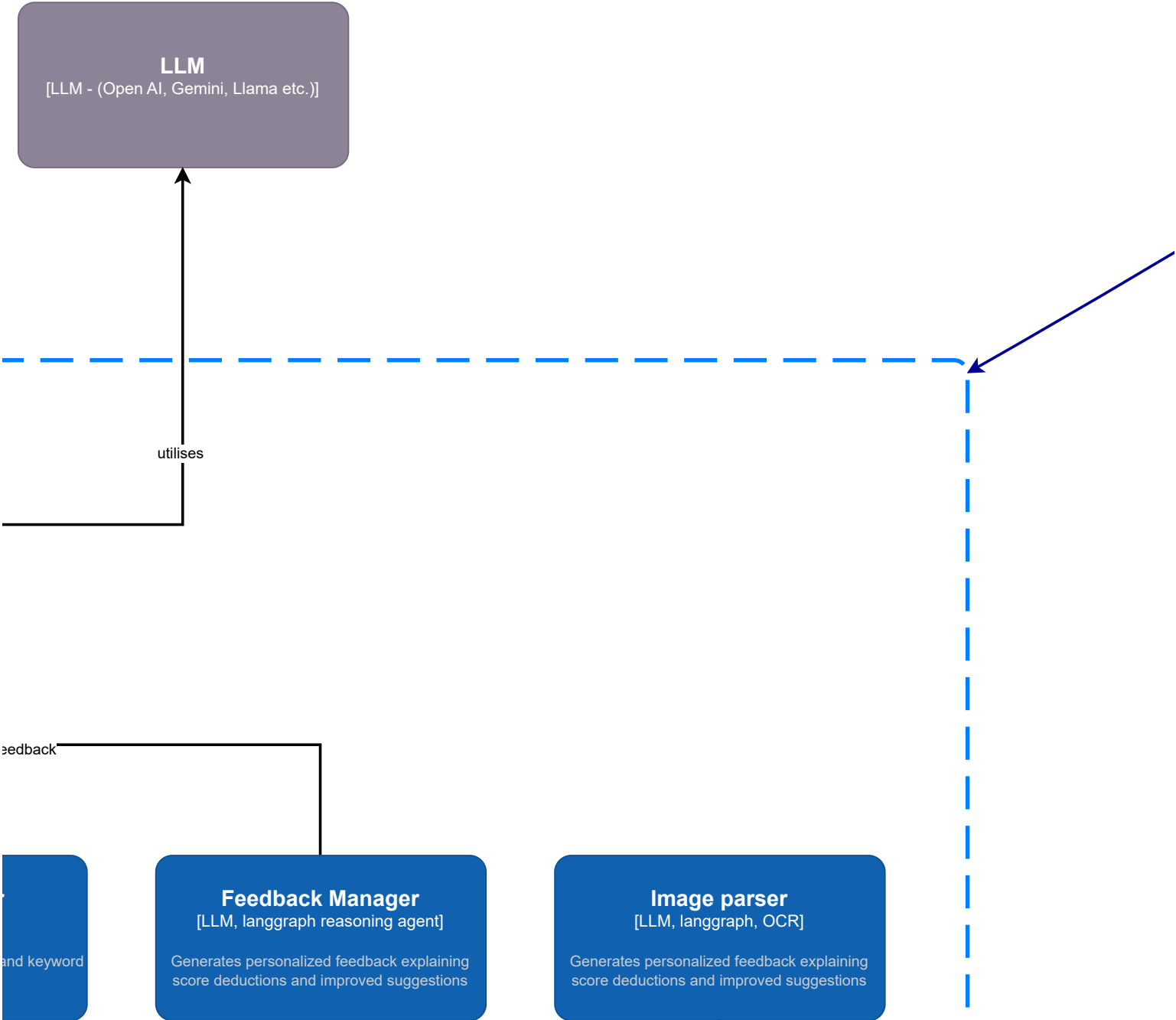
Centralised admin monitoring system, Predictive analytics for resource allocation, Audit logs & compliance tracking

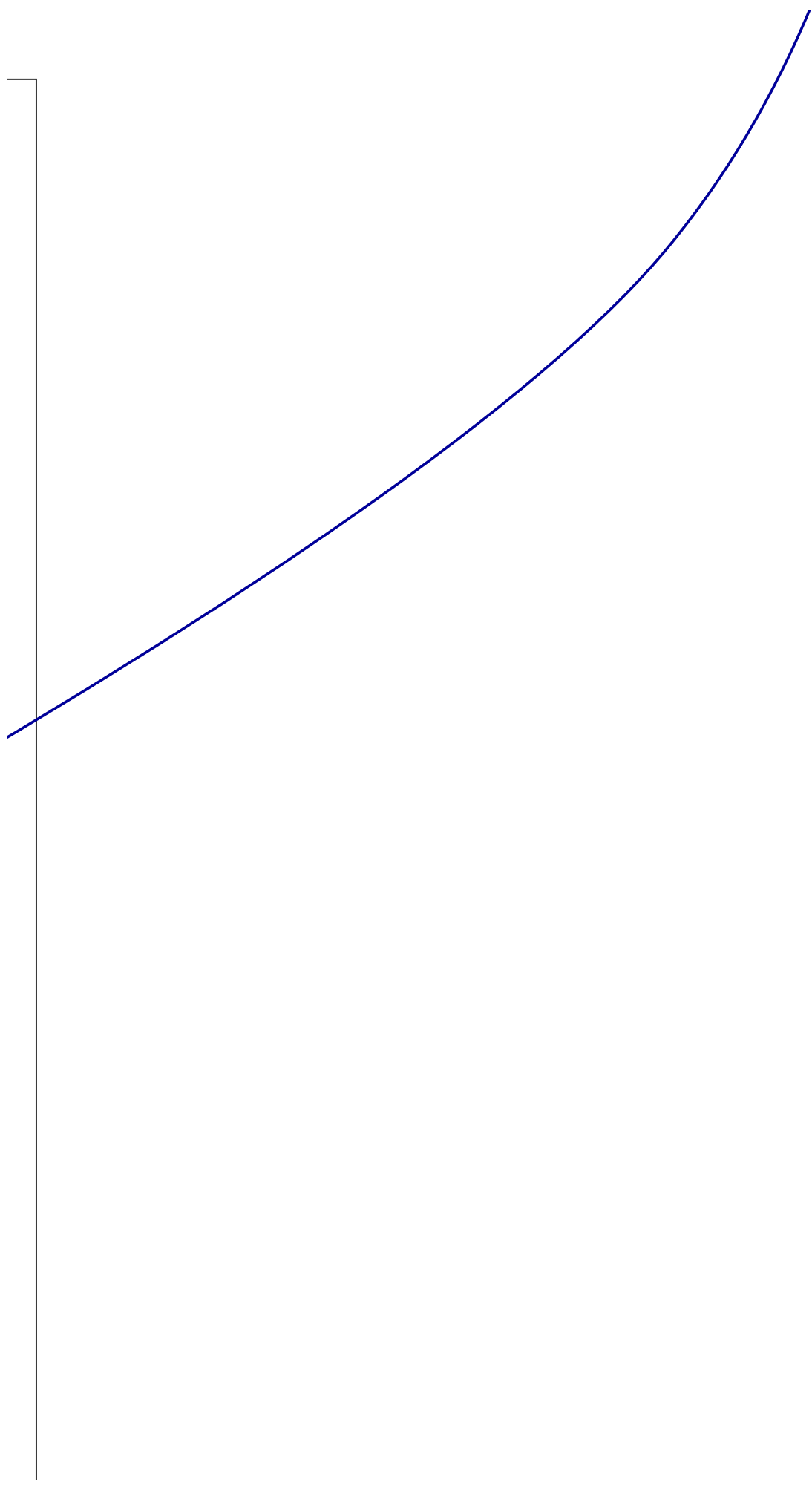






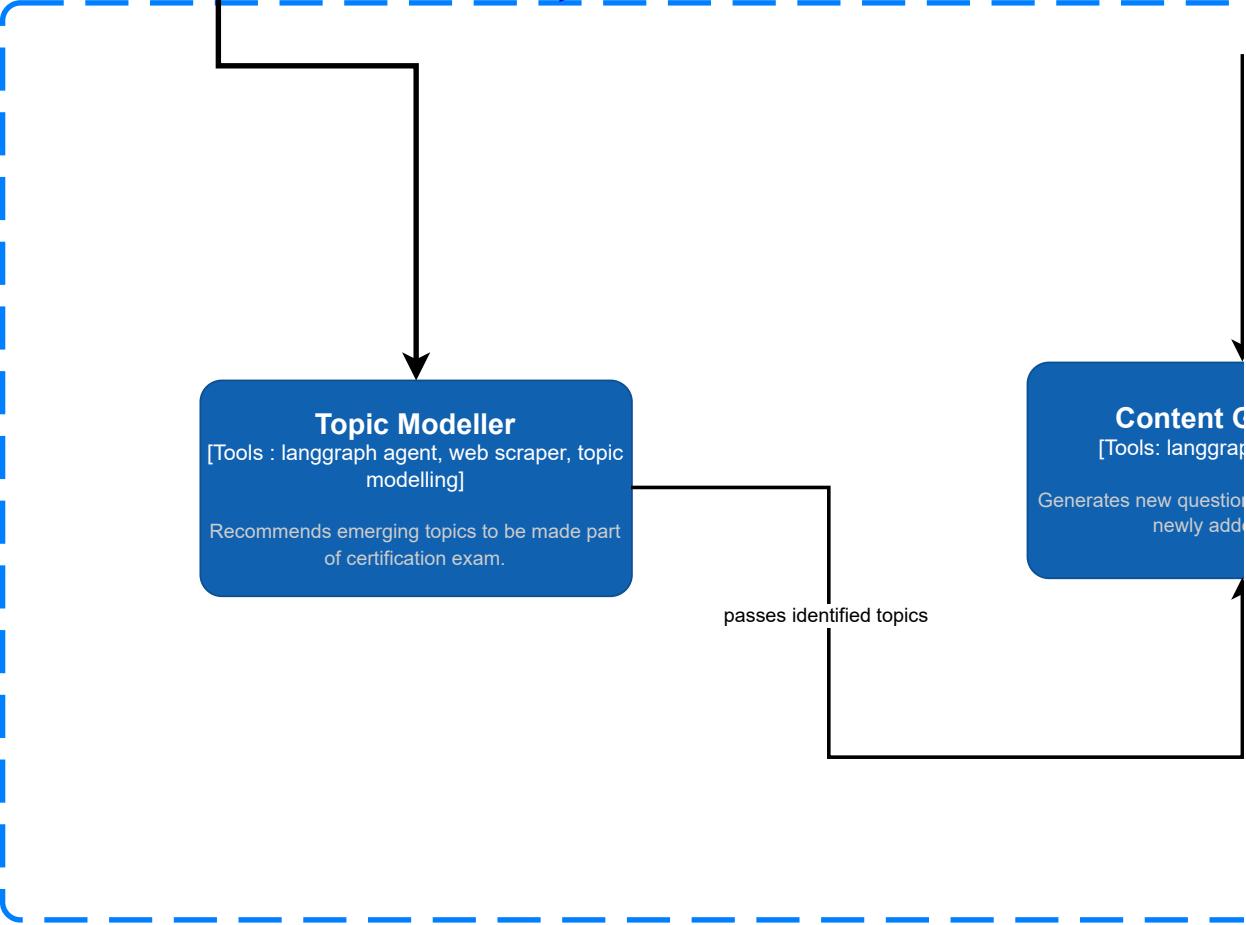


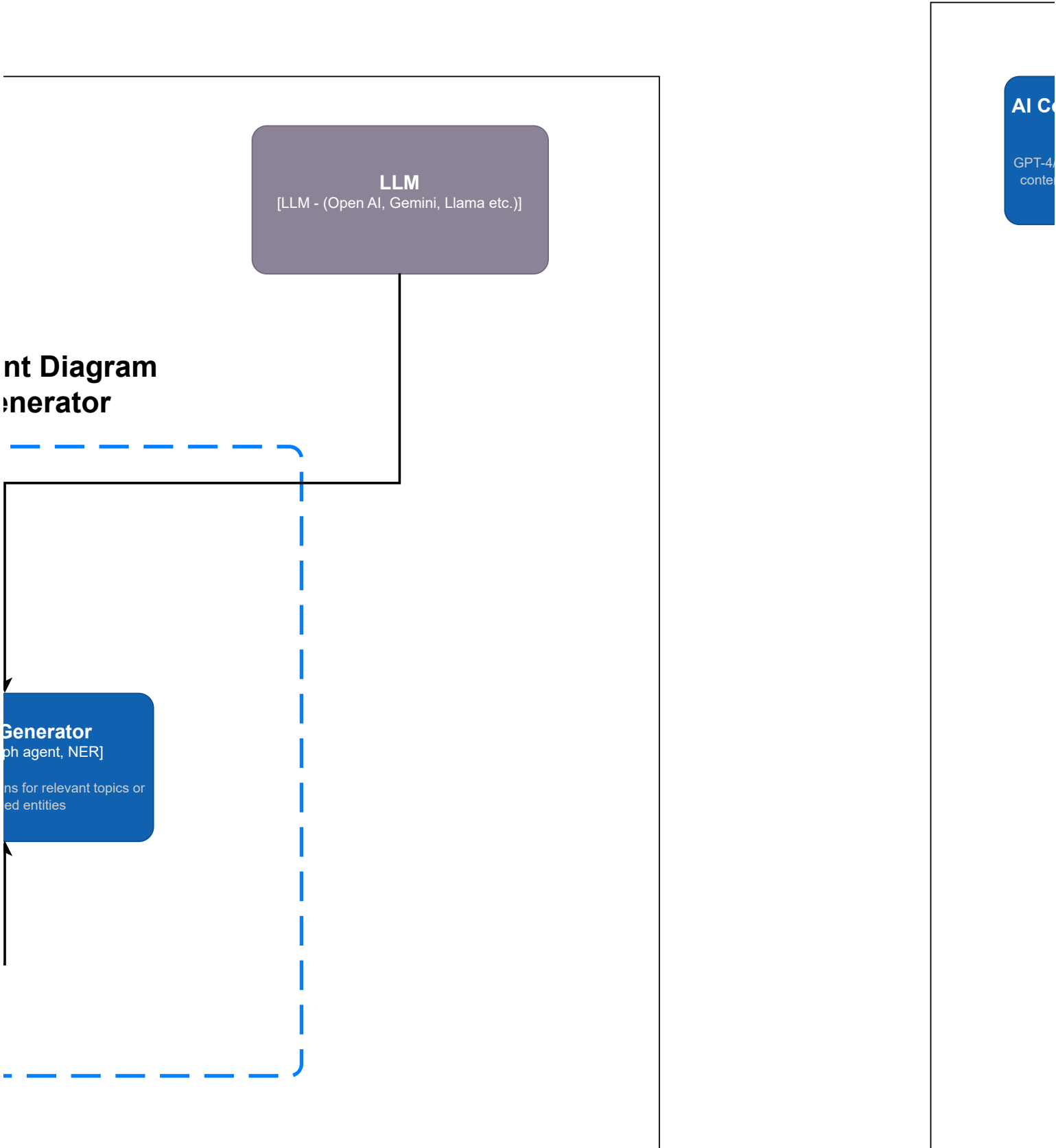






**C3 - Component  
Content Ge**





Content Generation Engine

[Container: LLM]

/BERT generates new questions, Aligns  
nt with certification objectives, Creates  
MCQ, Case Studies, Scenarios

Content Validator

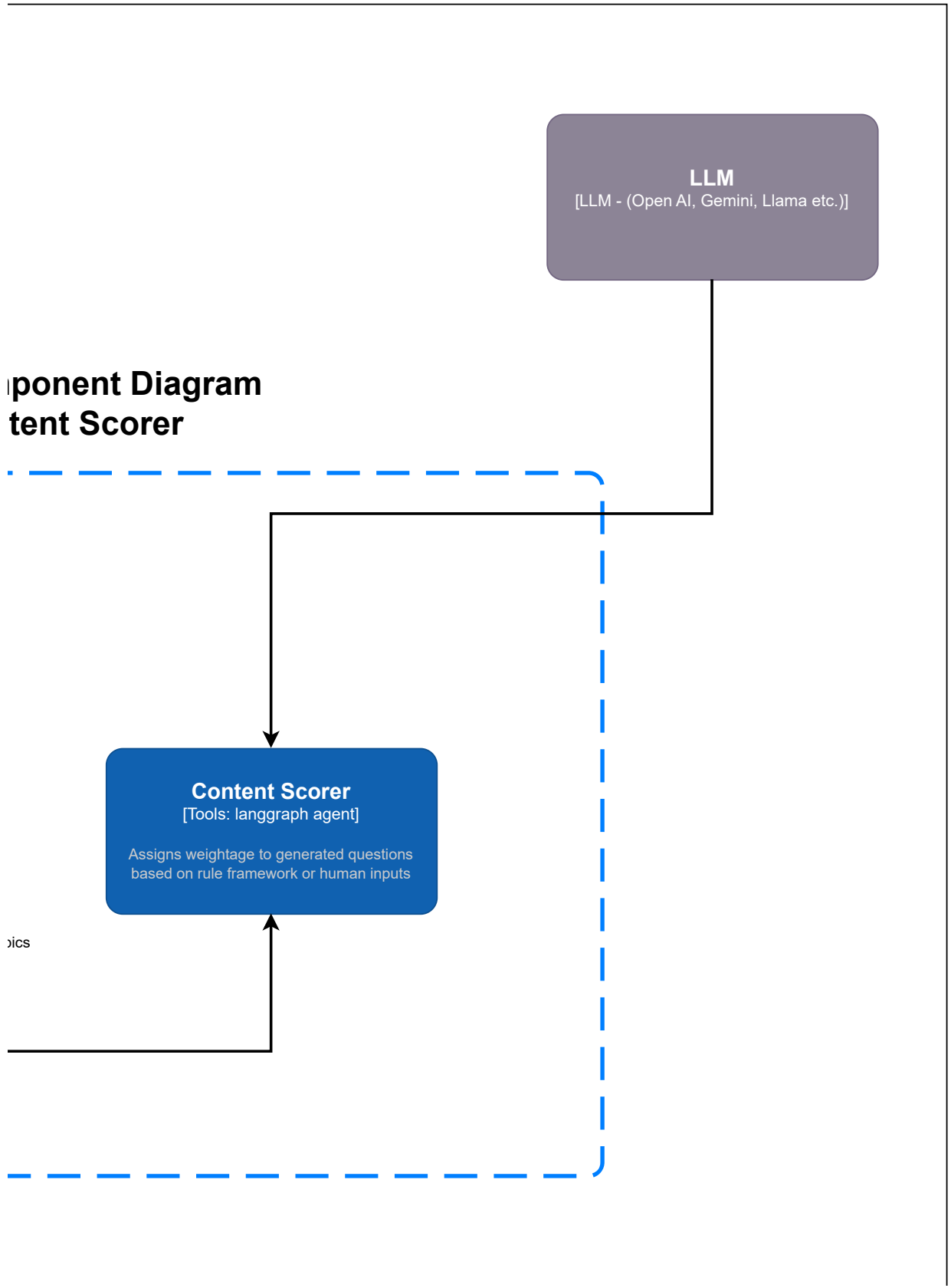
[Tools: langgraph agent]

Ensures that the questions generated aren't  
redundant and outdated.

C3 - Com  
Con

passes identified top

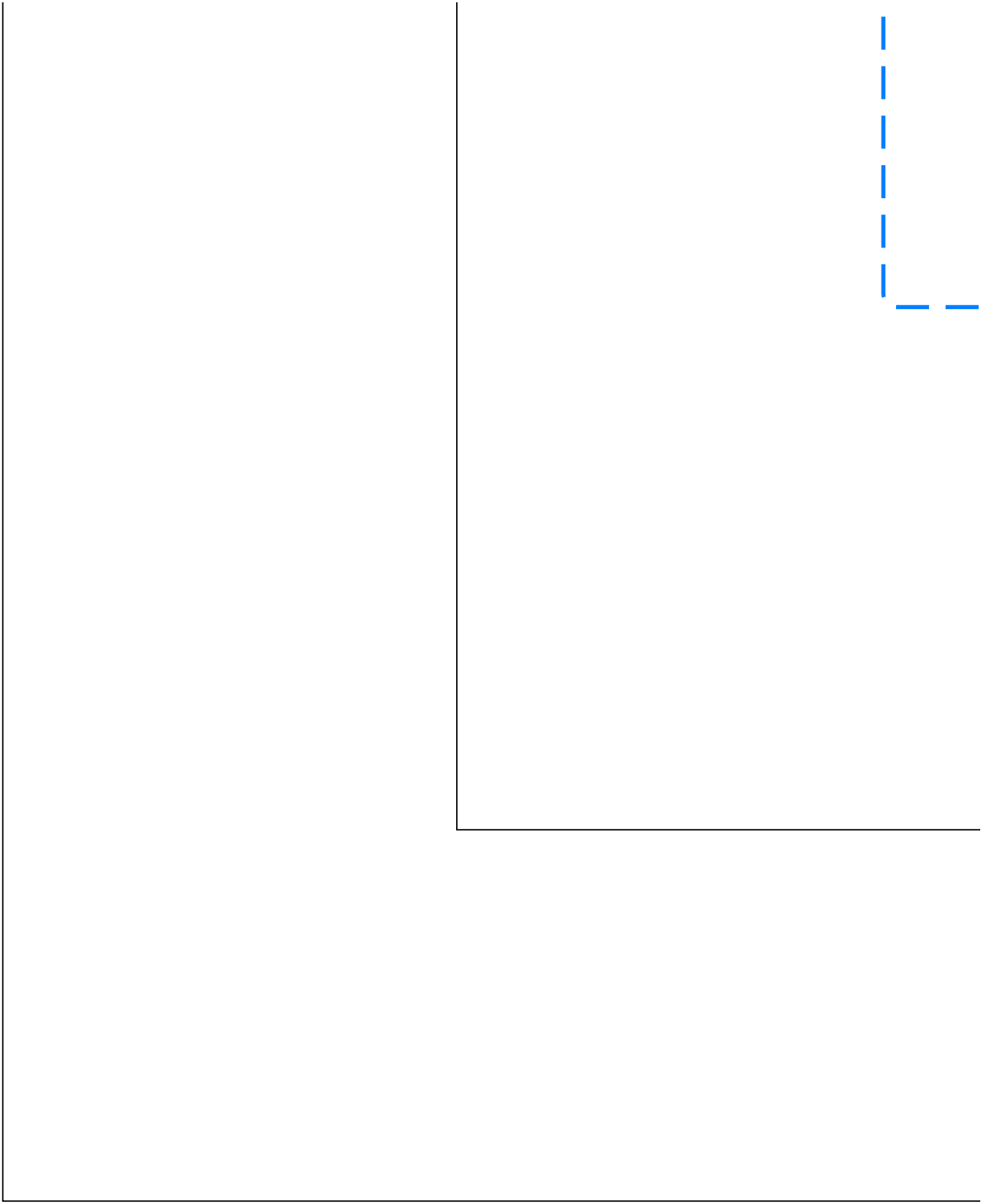


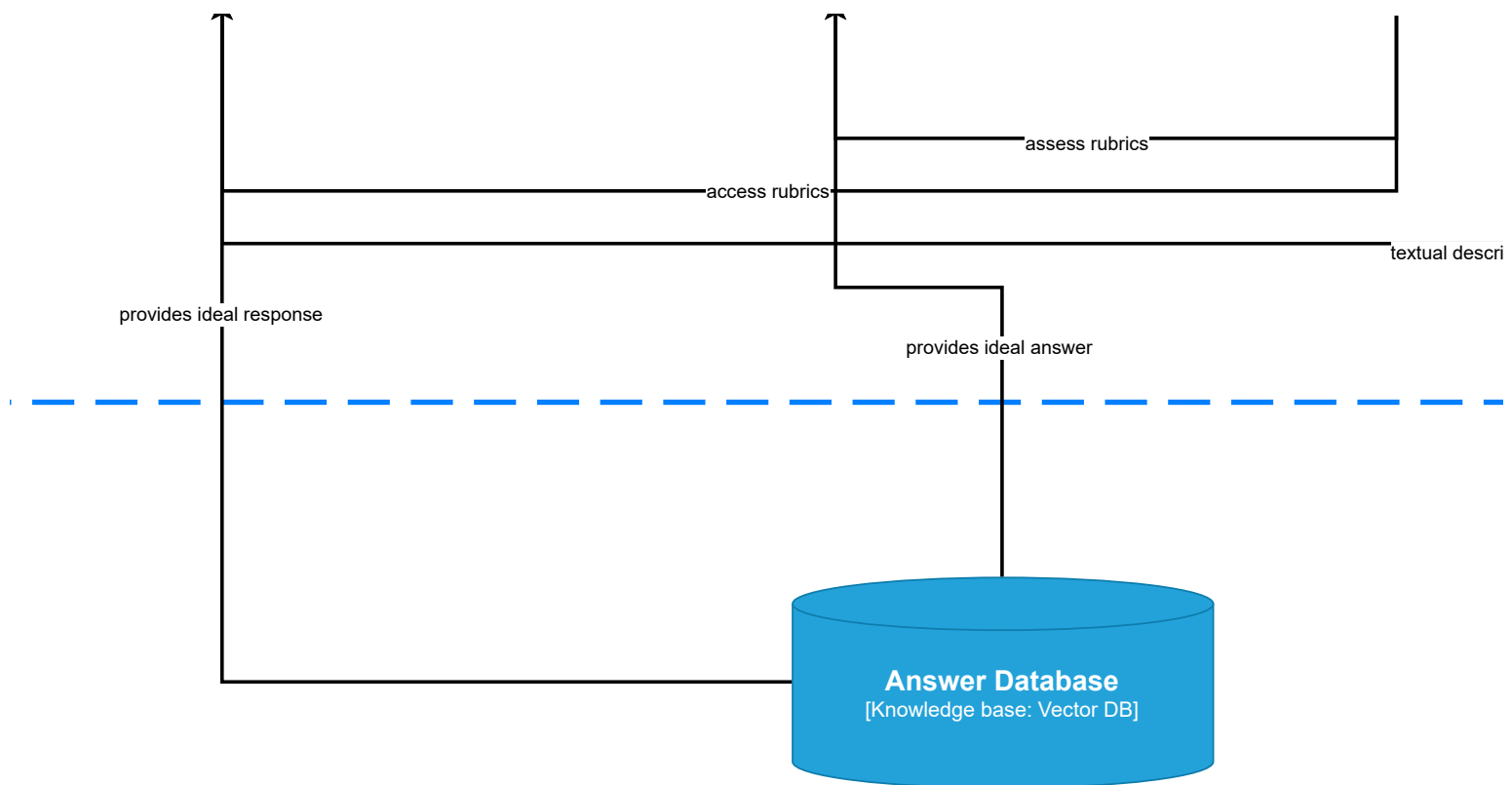


Component Diagram  
Content Scorer

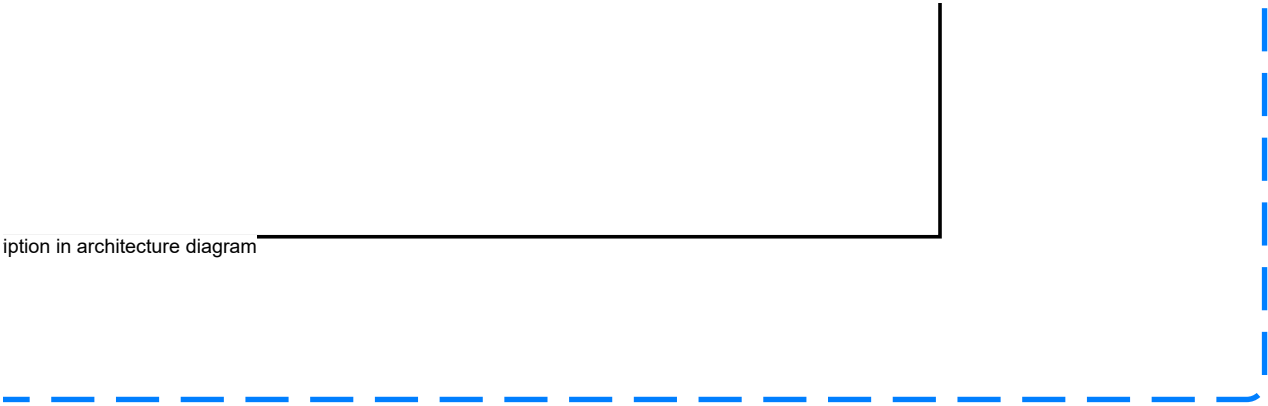
Inputs

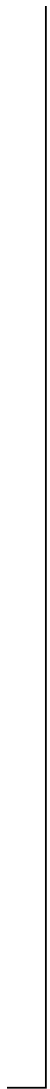






ption in architecture diagram



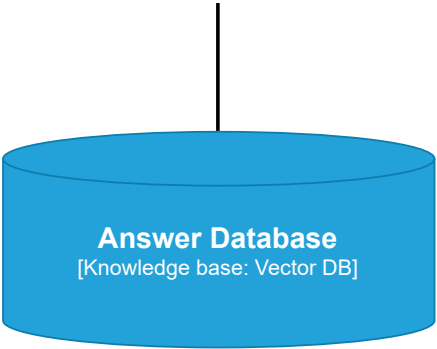


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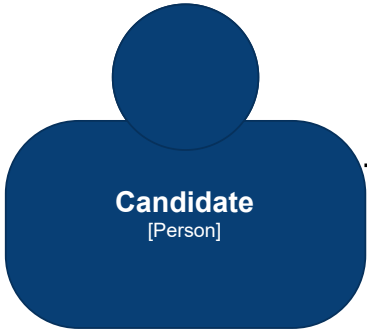


**Answer Database**  
[Knowledge base: Vector DB]

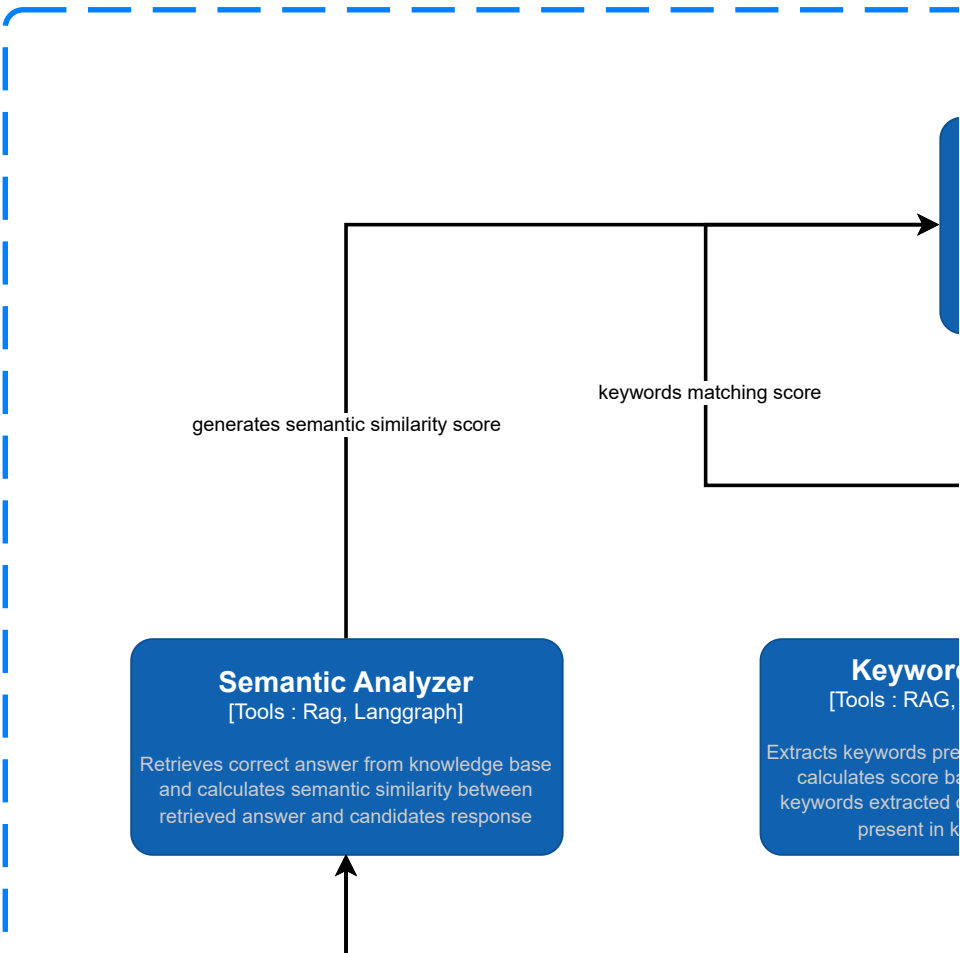




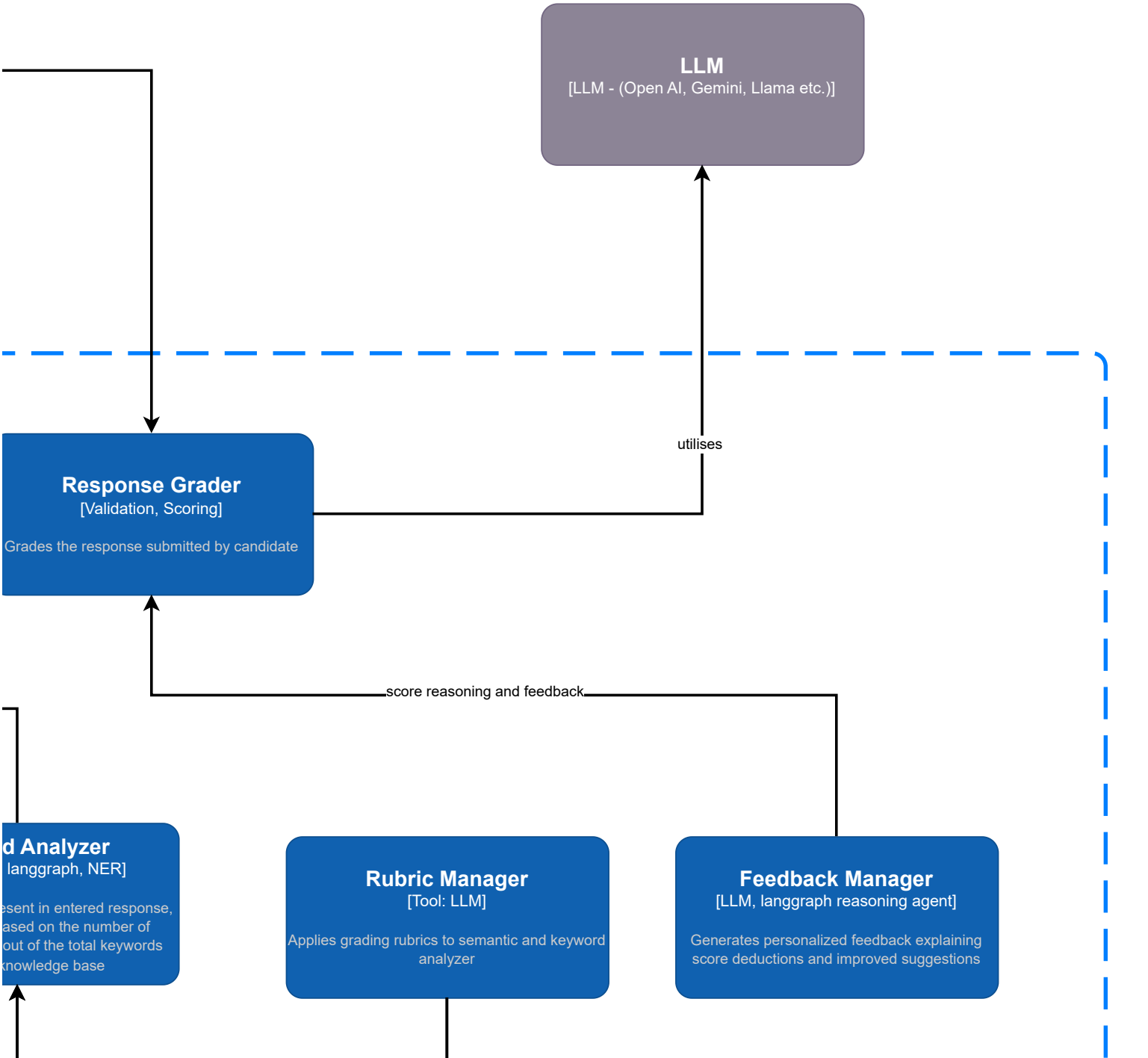
C3 - Con  
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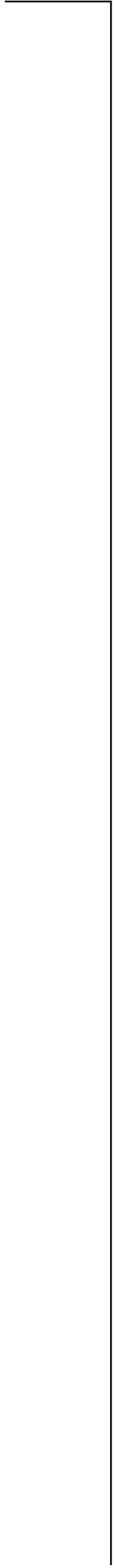


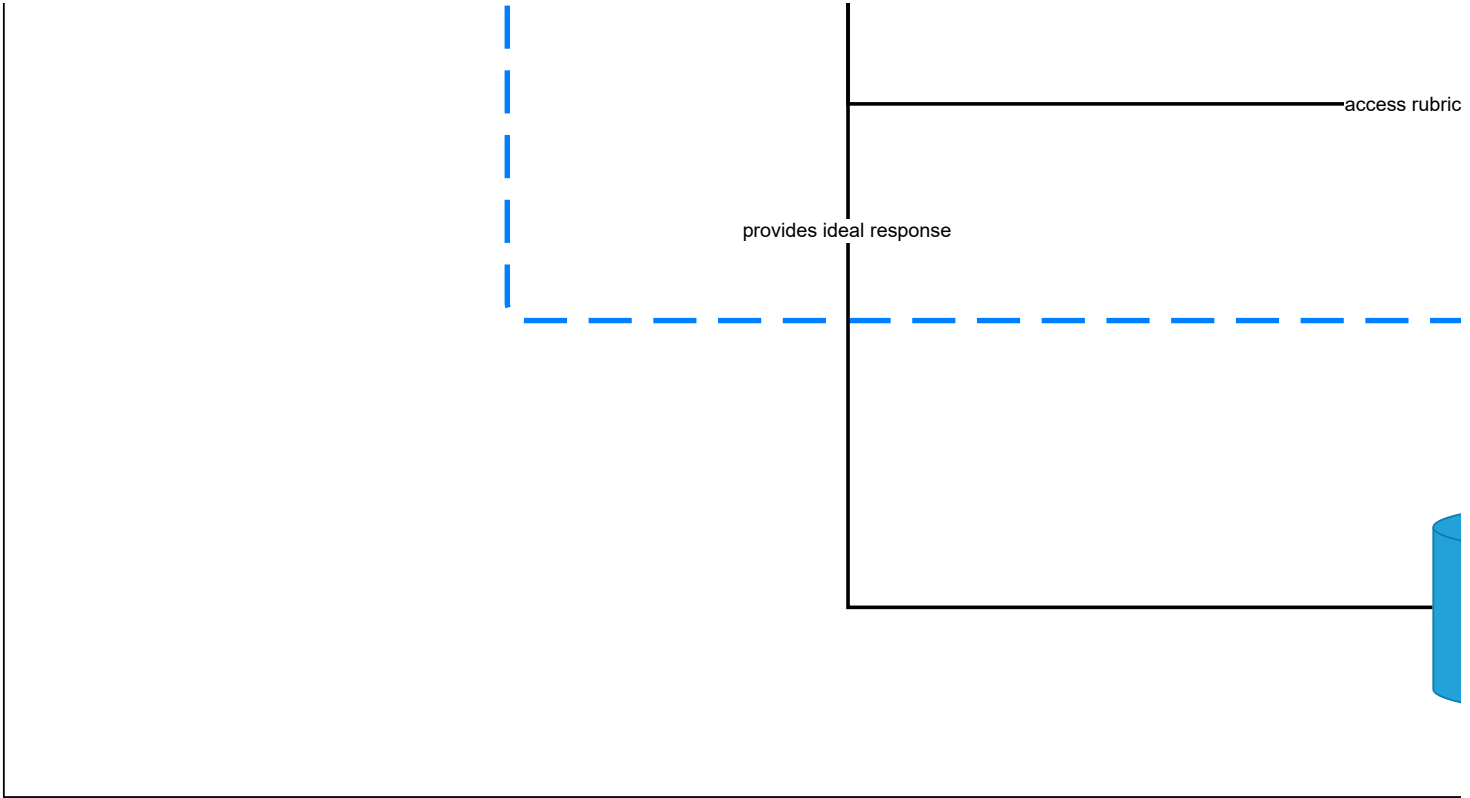
candidate's response

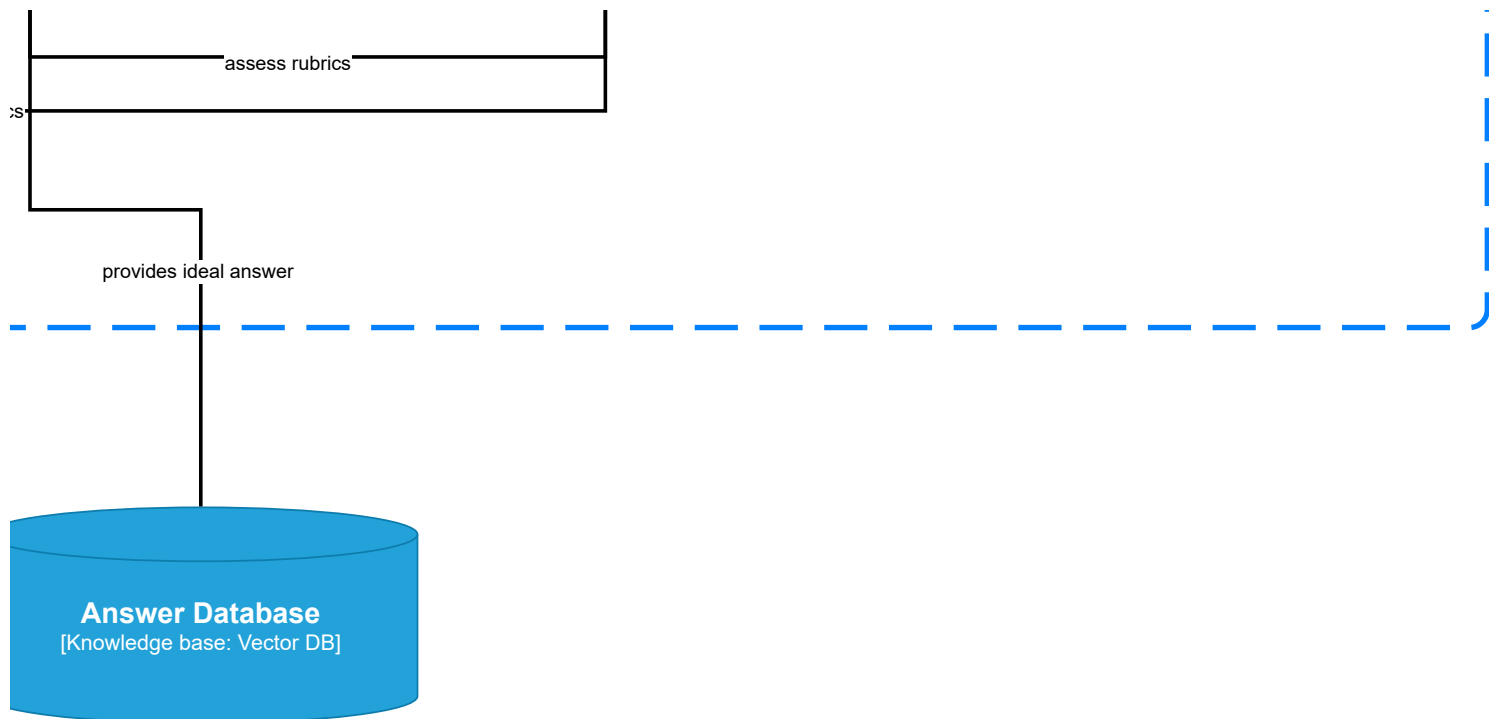


# Component Diagram (Grading Engine)

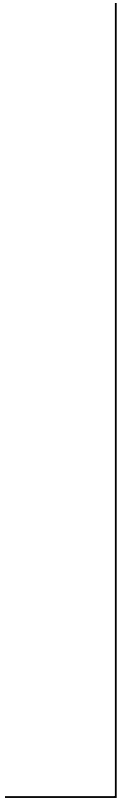








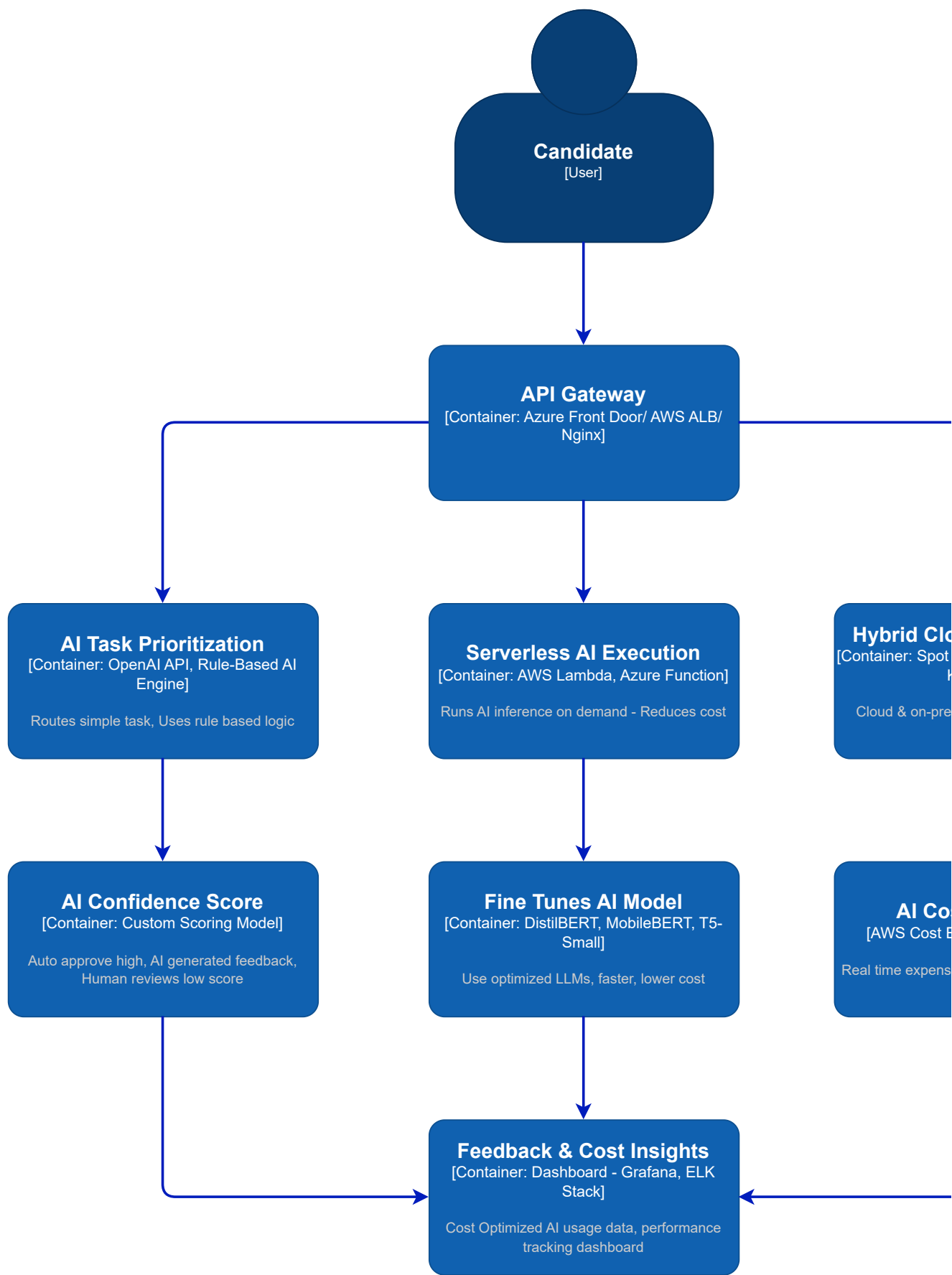




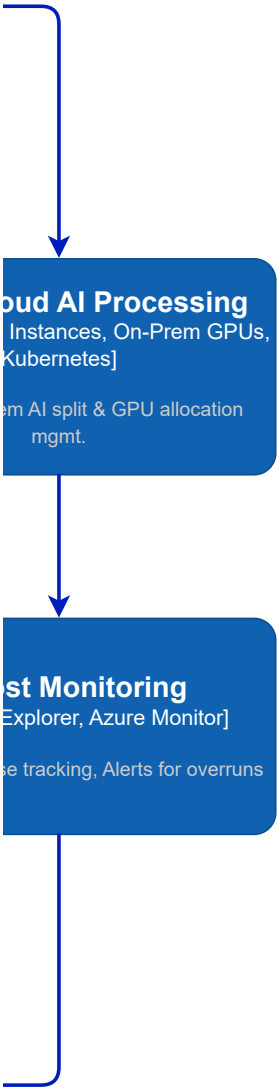




## C2 - Cost Optimization AI Deployment Architecture



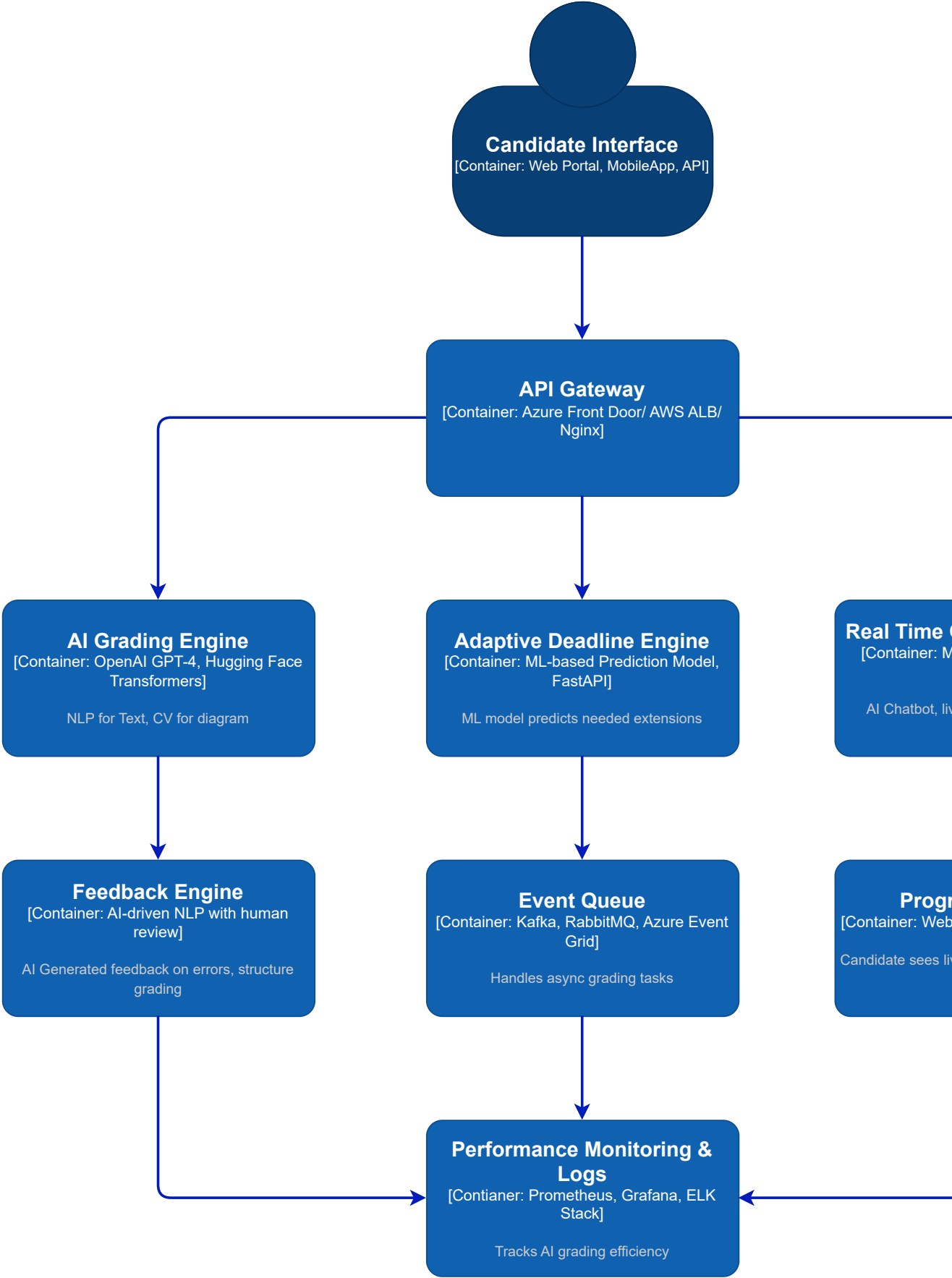
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# C2 - Candidate Experience Enhancement Architect





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