

AIT-DiagramCodex



PROJECT

AIT-DiagramCodeX

BRIDGING THE GAP BETWEEN NATURAL LANGUAGE, DIAGRAMS, AND CODE THROUGH AI.

DATE

JUL 9, 2023

AUTHOR

CONSTANTINE VASSIL, AITRAILBLAZER, LLC.

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<https://github.com/aitrailblazer/AIT-DiagramCodeX-DEMO>

1) Input

You can input Activity Diagram, Sequence Diagram, or State Diagram here:

AIT-DiagramCodeX: Go HTTP Server Operation

Activity Diagram: This diagram describes the processing flow of an HTTP server in Go. The user sends a request, the server checks the request's path. If it matches '/', it serves static content like HTML, CSS, JavaScript, or images. For paths matching '/diagram', '/go', or '/uml', the corresponding handler functions (diagramHandler, goHandler, or umlHandler) are executed. These handlers process the request, interact with external APIs when necessary, and return a processed response. After execution of the handler or serving the correct static content, the server sends an HTTP response back to the user.

2) PlantUML Diagram

```
@startuml
autonumber

actor User
participant Server

User --> Server: Sends a request
Server --> Server: Check request path
alt path matches /
    Server --> Server: Serve static content
end
```

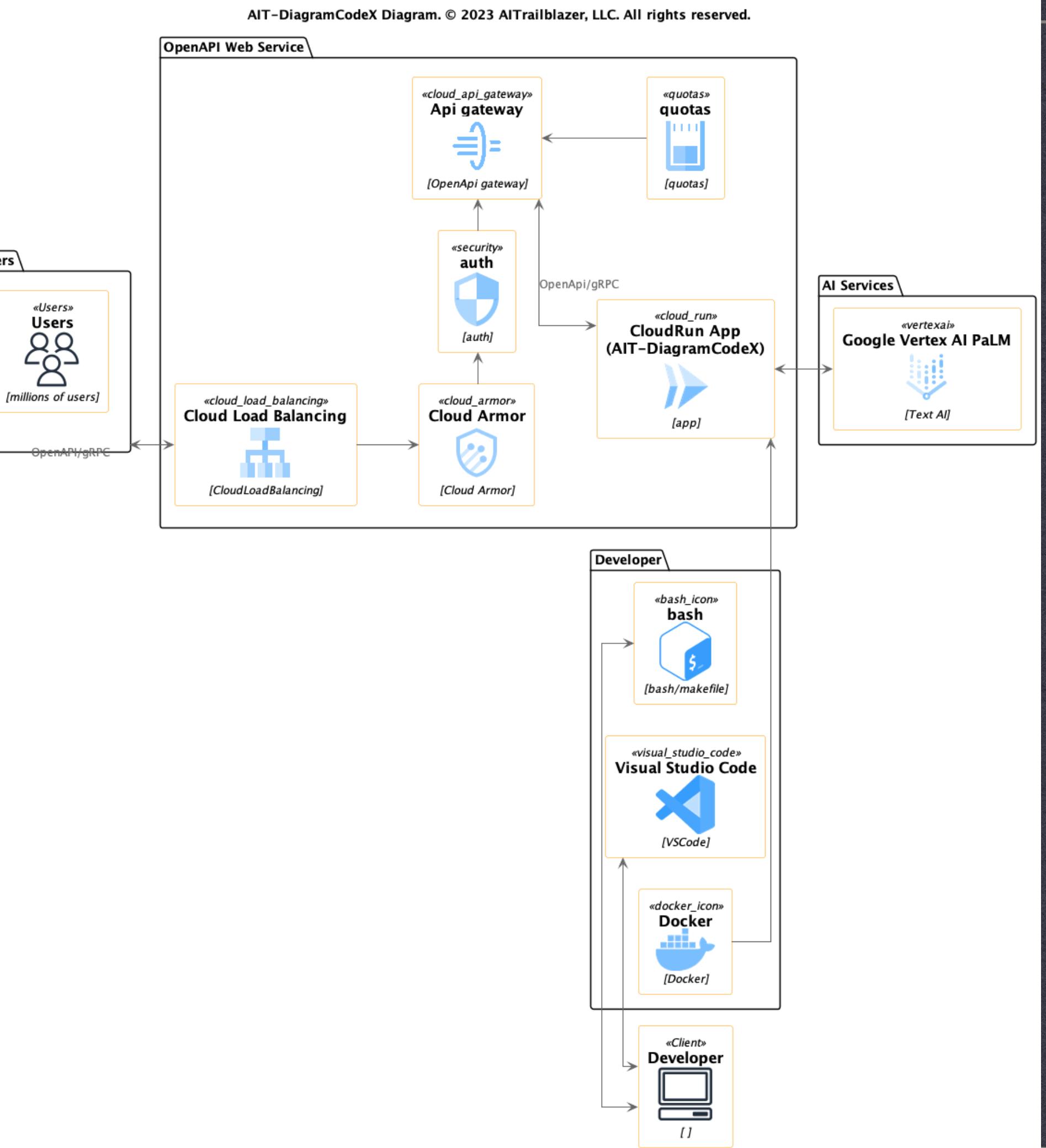


4) ==GO Code

```
// This program simulates a simple web
// server.
// The server can serve static content, or
// execute
// handlers for requests to /diagram, /go,
// and /uml.

func main() {
    // Create a new web server.
    server := http.NewServeMux()

    // Serve static content from the /static
    // directory.
```



PROMPT

ACTIVITY-DIAGRAM

Activity Diagram: This diagram describes the processing flow of an HTTP server in Go. The user sends a request, the server checks the request's path. If it matches '/', it serves static content like HTML, CSS, JavaScript, or images. For paths matching '/diagram', '/go', or '/uml', the corresponding handler functions (diagramHandler, goHandler, or umlHandler) are executed. These handlers process the request, interact with external APIs when necessary, and return a processed response. After execution of the handler or serving the correct static content, the server sends an HTTP response back to the user.

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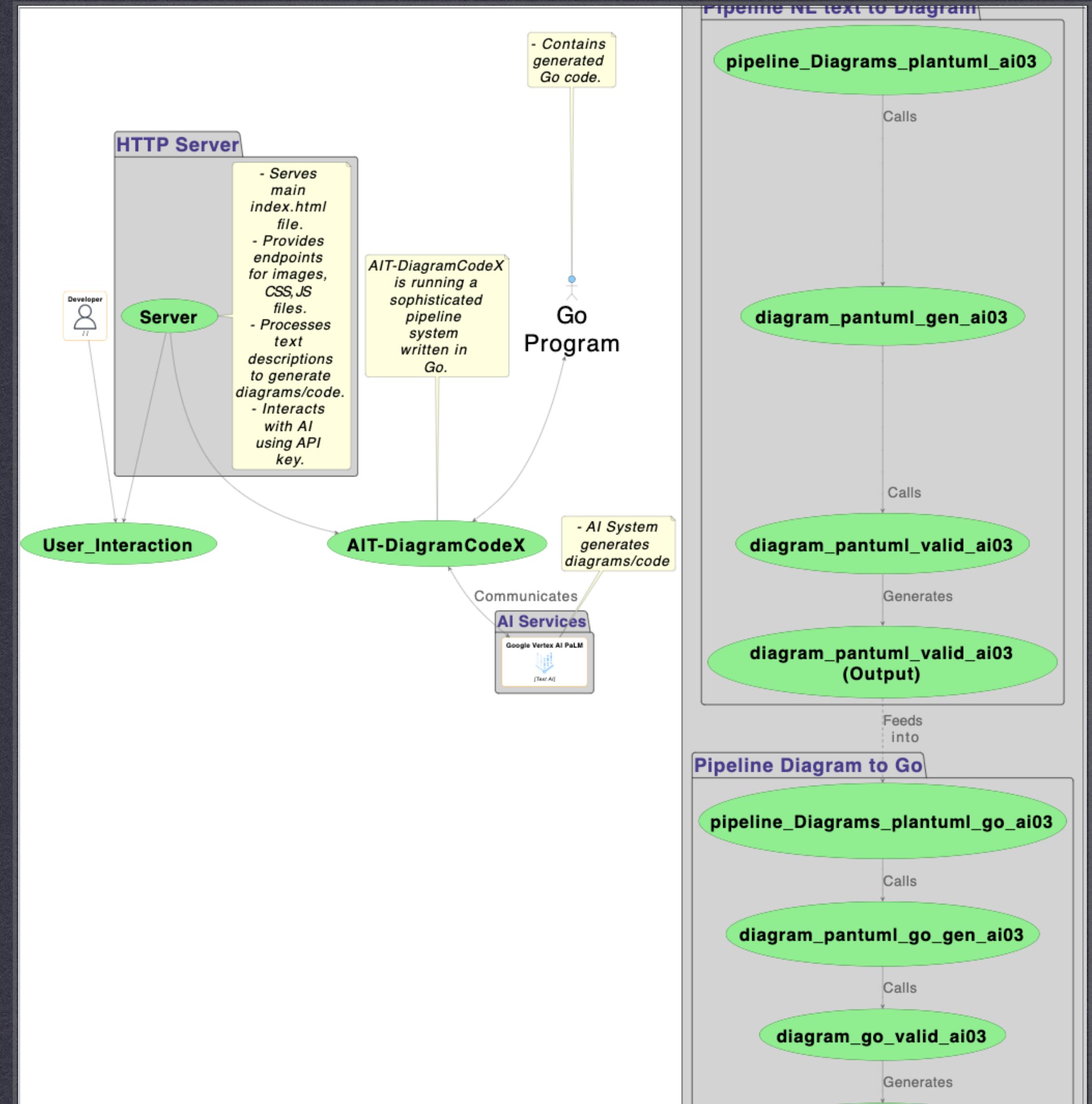
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Welcome to AIT-DiagramCodeX

Key Points:

- **AIT-DiagramCodeX**: An innovative solution that fluently converts between natural language, diagrams, and code, streamlining the workflow for developers, engineers, and data scientists.
- **Unique User Interface**: A three-part UI that takes Natural Language (NL) descriptions, converts them into Mermaid diagrams using AI, and provides a clear PNG image of the diagram for easy communication and sharing.
- **Going Beyond Visualization**: The platform also generates Go app source code from diagrams, revolutionizing the developer workflow.
- **Built for Collaboration**: Running on Google Cloud Platform's CloudRun, AIT-DiagramCodeX fosters a collaborative environment that's not just accessible, but shareable.
- **Intelligent Pipelines**: Advanced technology with smart pipeline systems to optimize the process from natural language to diagram and code. Includes a two-step process: Natural Language to Diagram and Diagram to Code Pipeline.
- **Join Our Journey**: AIT-DiagramCodeX is more than a tool, it's a transformative solution that boosts productivity in large enterprises. Be part of the journey in revolutionizing digital understanding, sharing, and creation.



AIT-DiagramCodeX: Powering Innovation with AI-Driven Visualization and Code Generation

AIT-DiagramCodeX distinguishes itself in the market through:

- * Utilization of Google's Vertex AI PaLM: Enabling highly precise conversions between natural language, diagrams, and code.
- * Unique Code Generation: Provides ready-to-use Go app source code directly from diagrams, accelerating the development process.
- * Collaboration Focus: Built on Google Cloud Platform's CloudRun, DiagramCodeX fosters a collaborative and accessible environment.
- * Intelligent Pipelines: These optimize the process from natural language to diagram and code, ensuring efficiency.
- * Comprehensive Solution: Merging conceptualization, design, and execution into a single platform, simplifying the development workflow.
- * User-Friendly Interface: An intuitive three-part interface that enhances productivity and accessibility.
- * By incorporating advanced AI and unique features, AIT-DiagramCodeX offers a transformative and competitive solution for software development.

