









# "Legend Guardian Agent - System Architecture"

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"Legend Guardian Agent Team"

Tue Aug 19 11:04:32 AEST 2025

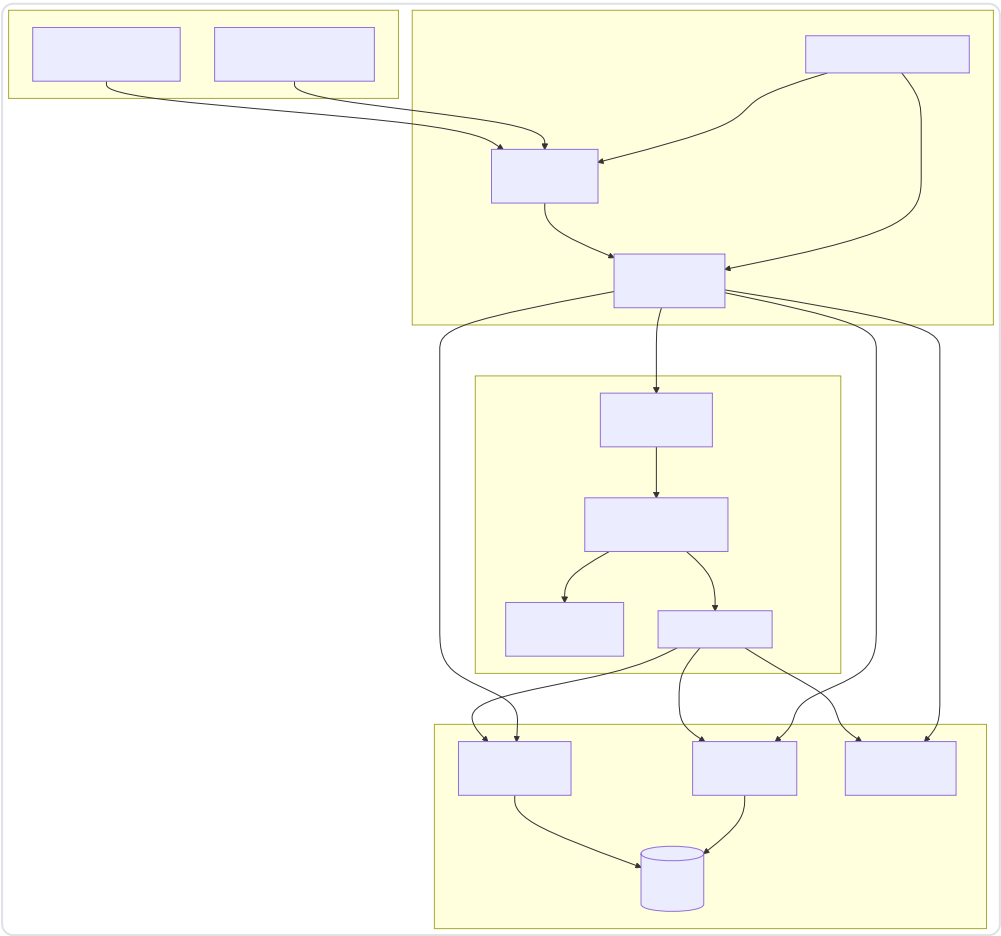
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# Legend Guardian Agent - System Architecture

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## High-Level System Architecture

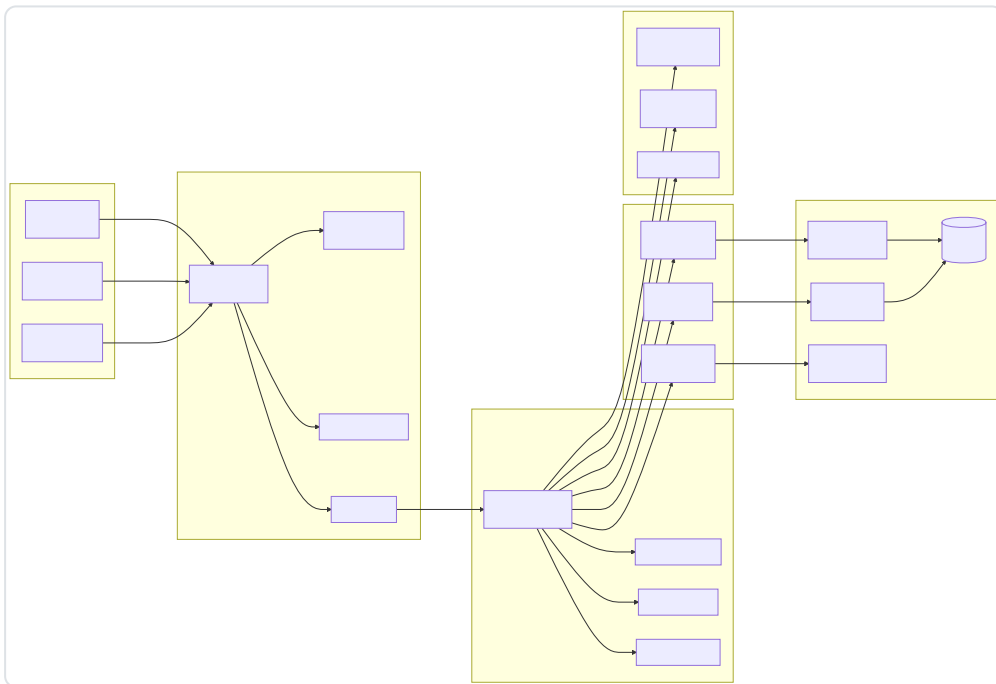
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Architecture Diagram

# Detailed Component Architecture

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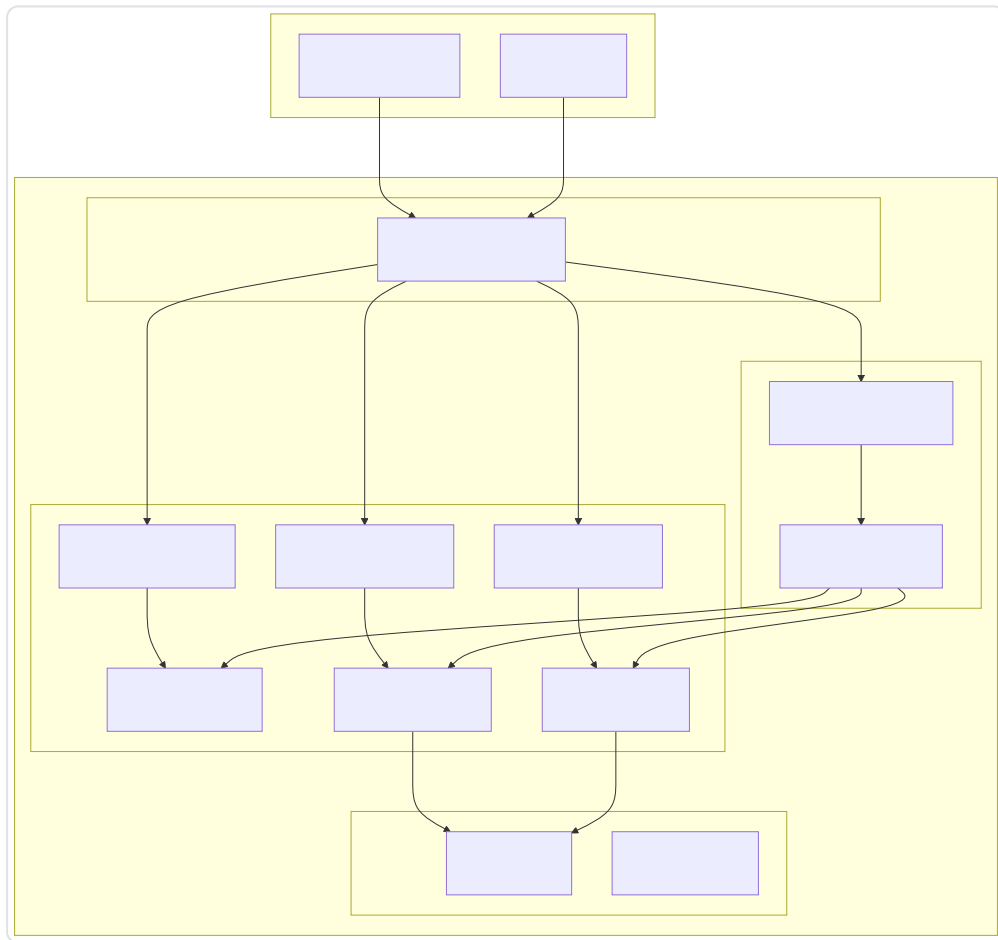


Architecture Diagram



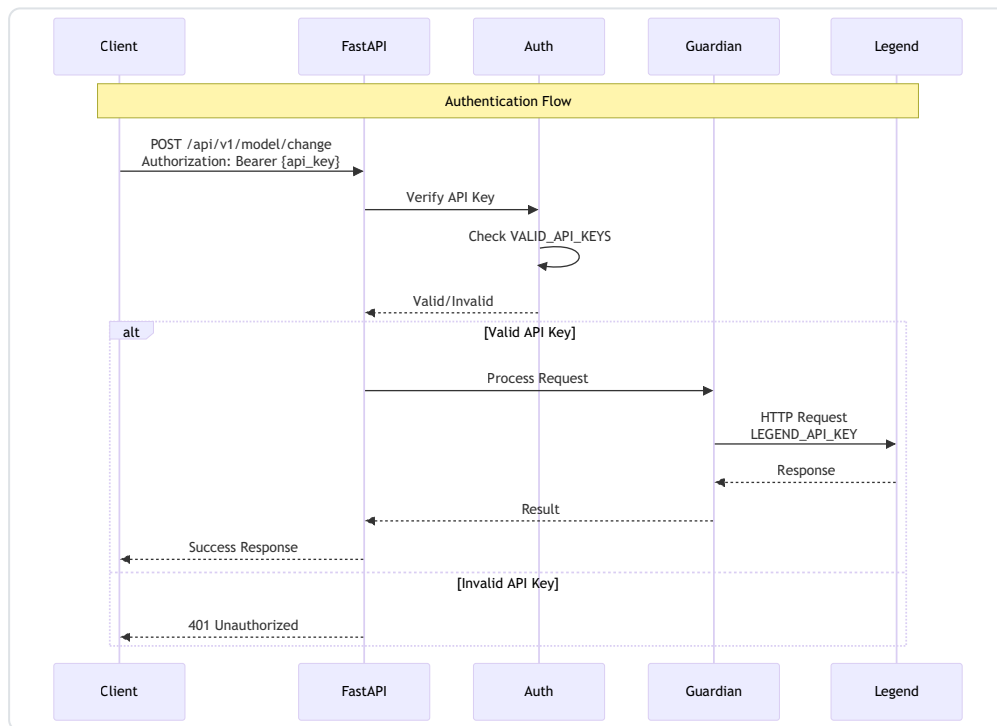
# Network Architecture & Ports

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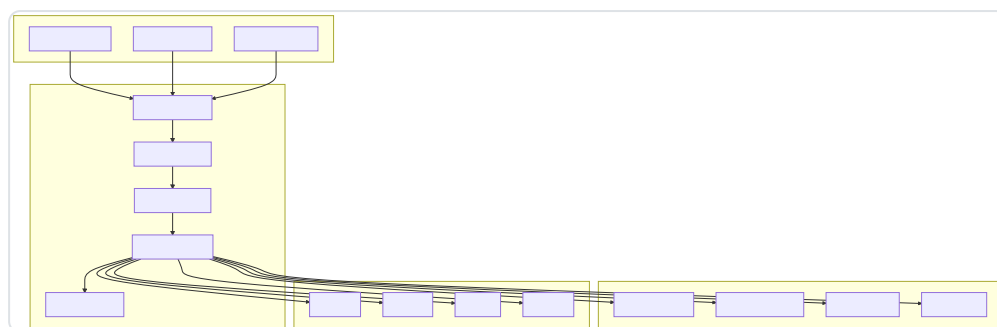
Architecture Diagram

# Authentication & Security Architecture



Architecture Diagram

# Data Flow Architecture



Architecture Diagram

# Component Details

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## Legend Guardian Agent

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- **Port:** 8000
- **Protocol:** HTTP/HTTPS
- **Framework:** FastAPI (Python)
- **Authentication:** Bearer Token (API Keys)
- **Features:** Model monitoring, validation, automation

## Legend Engine

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- **Port:** 6060
- **Protocol:** HTTP
- **Purpose:** Model execution and validation
- **Database:** MongoDB (Port 27017)

## Legend SDLC

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- **Port:** 7070
- **Protocol:** HTTP
- **Purpose:** Source control and lifecycle management
- **Database:** MongoDB (Port 27017)

## Legend Studio

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- **Port:** 9000
- **Protocol:** HTTP
- **Purpose:** Web-based modeling interface
- **Authentication:** GitLab OAuth

## MongoDB

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- **Port:** 27017
- **Protocol:** MongoDB Wire Protocol
- **Purpose:** Data persistence for all Legend services

## Azure Ingress

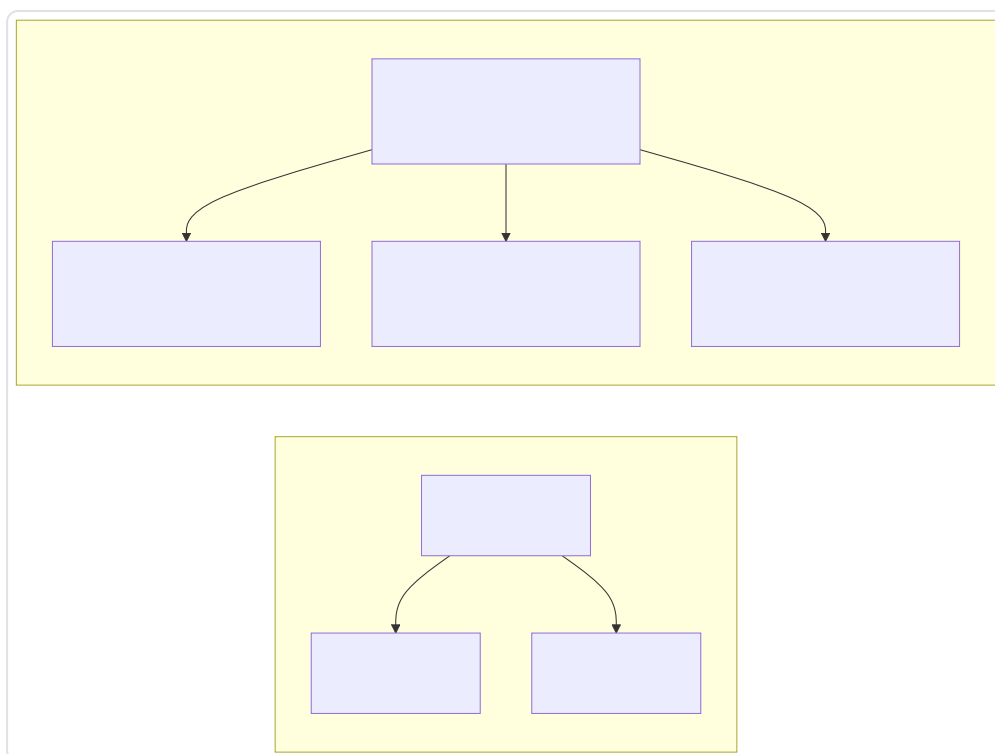
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- **Ports:** 80 (HTTP), 443 (HTTPS)
- **Protocol:** HTTP/HTTPS
- **Purpose:** External access and load balancing



## Deployment Architecture

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Architecture Diagram



## Configuration Summary

Component	Port	Protocol	Purpose	Authentication
<b>Guardian Agent</b>	8000	HTTP	API Server	API Key (Bearer)
<b>Legend Engine</b>	6060	HTTP	Model Execution	Internal
<b>Legend SDLC</b>	7070	HTTP	Source Control	GitLab OAuth
<b>Legend Studio</b>	9000	HTTP	Web Interface	GitLab OAuth
<b>MongoDB</b>	27017	MongoDB	Data Storage	Internal
<b>Azure Ingress</b>	80/443	HTTP/HTTPS	External Access	Load Balancer

This architecture provides a scalable, secure, and maintainable system for monitoring and managing the FINOS Legend platform through the Legend Guardian Agent.