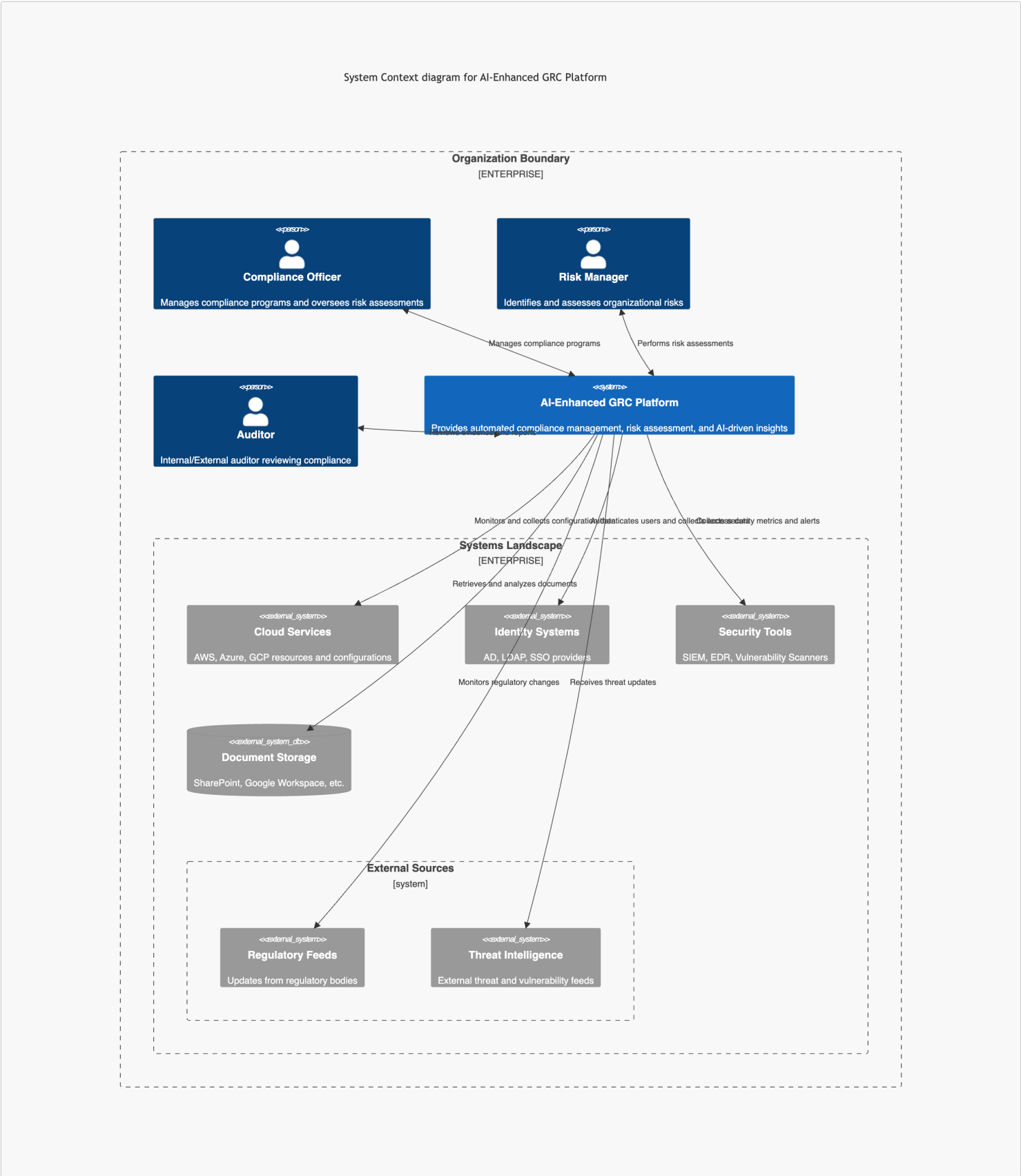
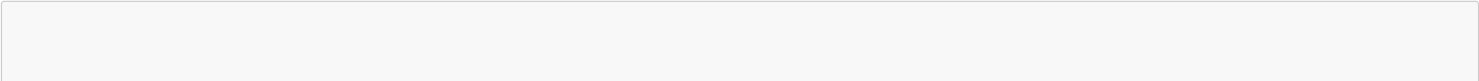


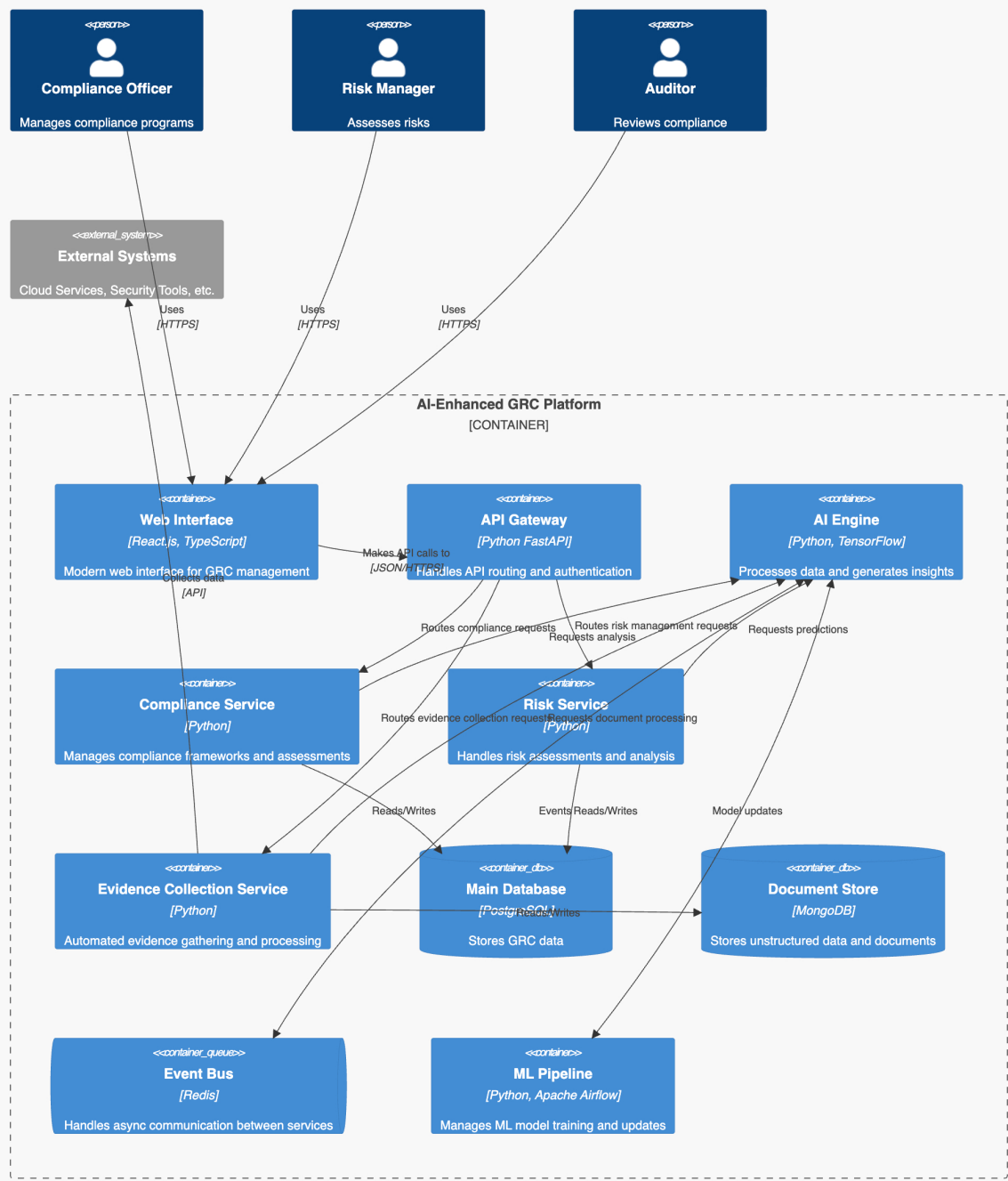
System Context Diagram



Container Diagram



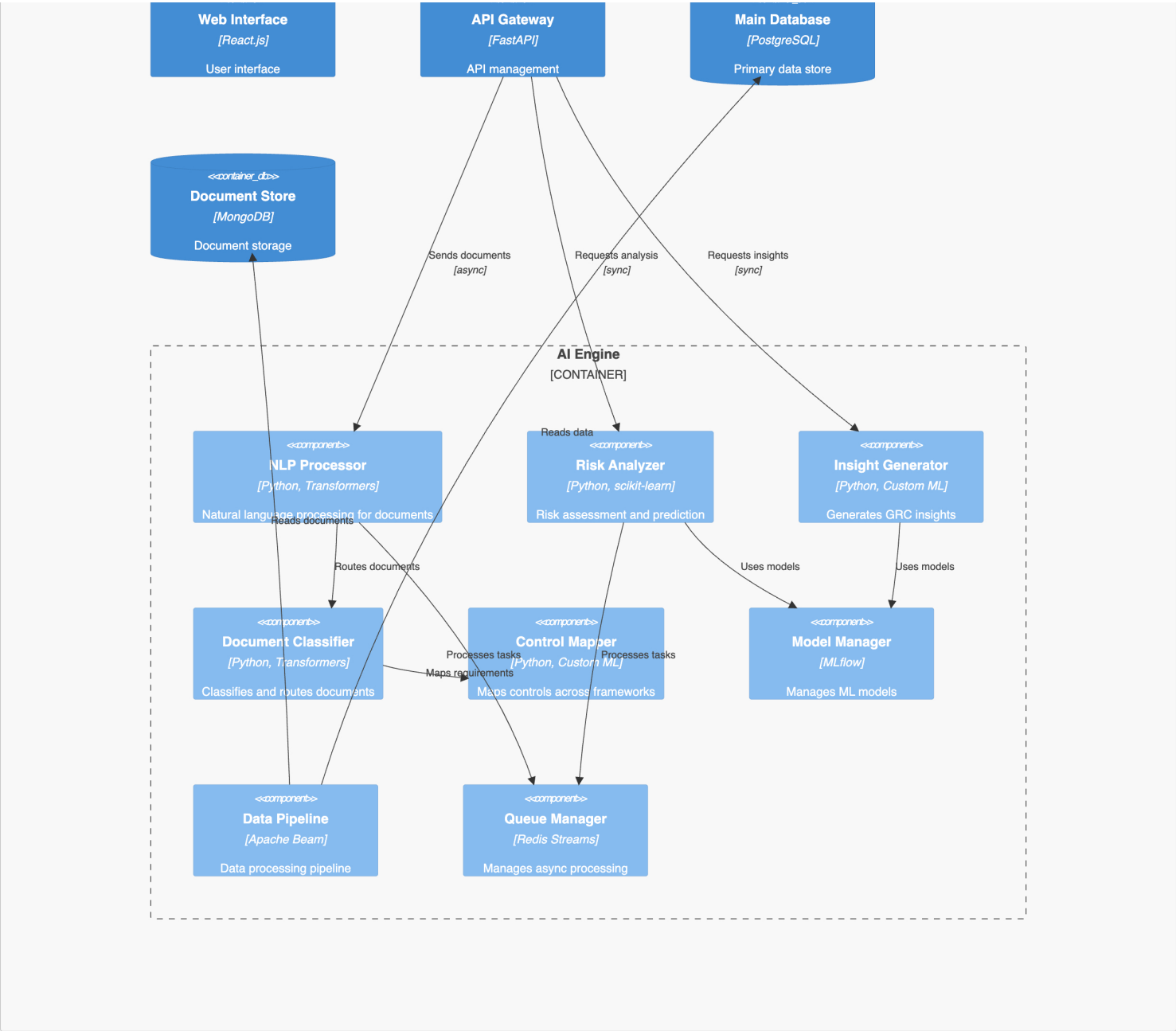
Container diagram for AI-Enhanced GRC Platform



Component Diagram

Component diagram for AI-Enhanced GRC Platform - AI Engine





The architecture presented above shows a modern, microservices-based GRC platform with integrated AI capabilities. Here's a brief explanation of each diagram:

- 1. System Context Diagram:**
  - Shows how the platform interacts with external systems and users
  - Highlights data collection from various sources
  - Demonstrates the broad scope of automation
- 2. Container Diagram:**
  - Details the major services and their interactions
  - Shows the separation of concerns between different components
  - Highlights how AI is integrated throughout the system
- 3. Component Diagram (AI Engine Focus):**
  - Detailed view of the AI Engine internals
  - Shows how different ML models work together
  - Demonstrates data processing flow

Key architectural decisions:

- 1. Microservices Architecture:**
  - Each major function is a separate service
  - Services communicate via API Gateway
  - Event-driven architecture for async operations
- 2. AI Integration:**
  - Centralized AI Engine for reusable ML capabilities

- Centralized AI Engine for reusable ML capabilities
- Separate ML Pipeline for model training
- Multiple specialized ML components for different tasks

### **3. Scalability & Performance:**

- Event bus for async operations
- Separate databases for structured and unstructured data
- Containerized deployment support

### **4. Security & Compliance:**

- API Gateway for centralized security
- Separate services for better access control
- Audit-friendly architecture