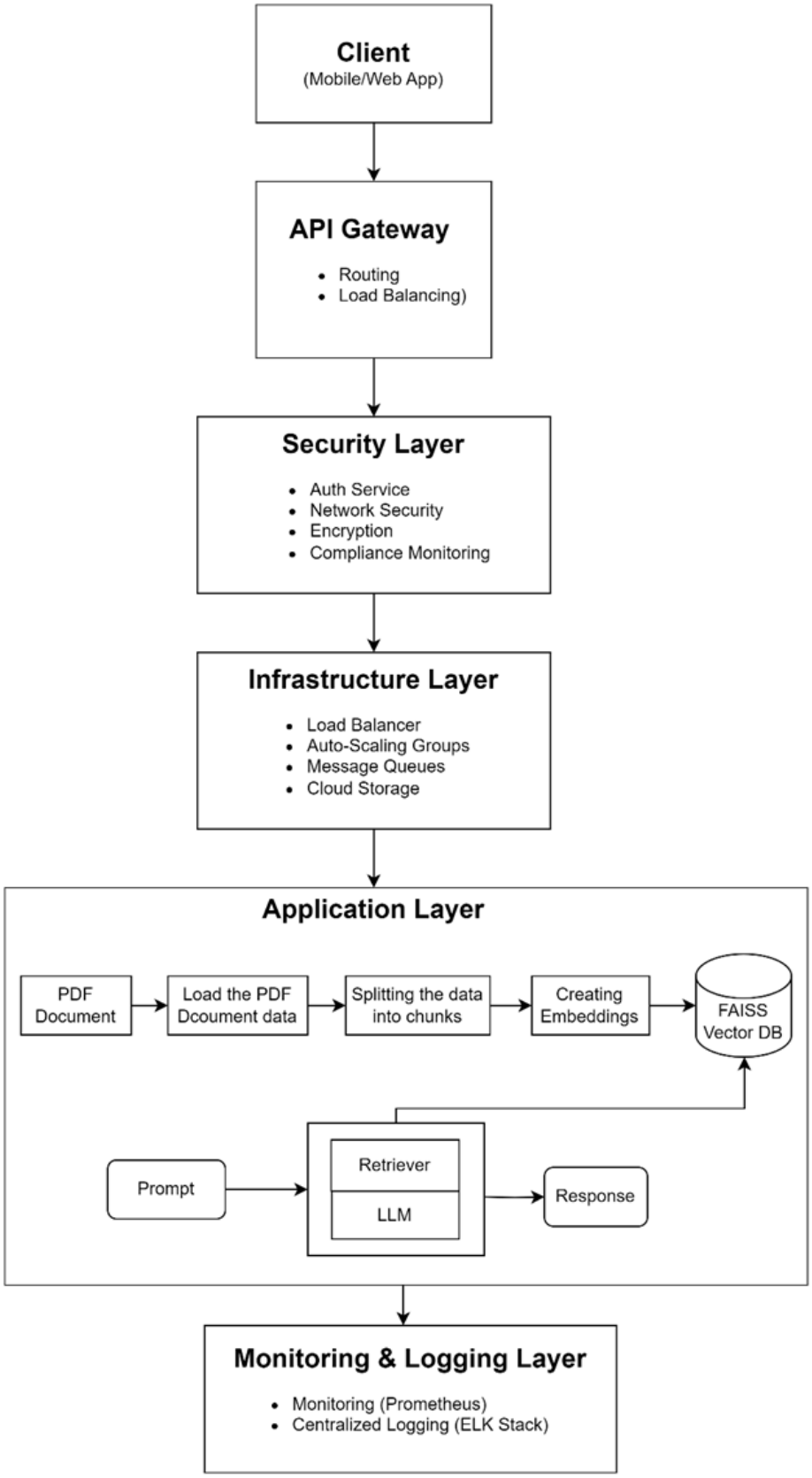
Architecture Diagram:



Explanation:

1. **Clients**: The users interact with the system through web or mobile applications.
2. **API Gateway**: Routes requests from clients to the appropriate services in the application layer and provides load balancing.
3. **Security Layer**:
    - **Auth Service**: Manages authentication and authorization.
    - **Network Security**: Includes firewalls and VPC configurations to protect the system.
    - **Encryption**: Ensures data is encrypted both in transit and at rest.
    - **Compliance Monitoring**: Ensures the system adheres to relevant regulations.
4. **Infrastructure Layer**:
    - **Load Balancer**: Distributes incoming network traffic across multiple servers.
    - **Auto-Scaling Groups**: Automatically adjusts the number of instances in response to the load.
    - **Message Queues**: Manages asynchronous processing tasks.
    - **Cloud Storage**: Stores large datasets and other resources.
5. **Application Layer**:
    - **LLM Model**: Handles natural language processing tasks using a Ollama model.
    - **Embedding Generation Service**: Generates embeddings for the document chunks.
6. **Data Layer**:
    - **Vector Database**: Stores embeddings and facilitates fast similarity searches.
7. **Monitoring & Logging Layer**:
    - **Monitoring**: Tracks system performance and health metrics.
    - **Centralized Logging**: Collects and stores logs for analysis and troubleshooting.