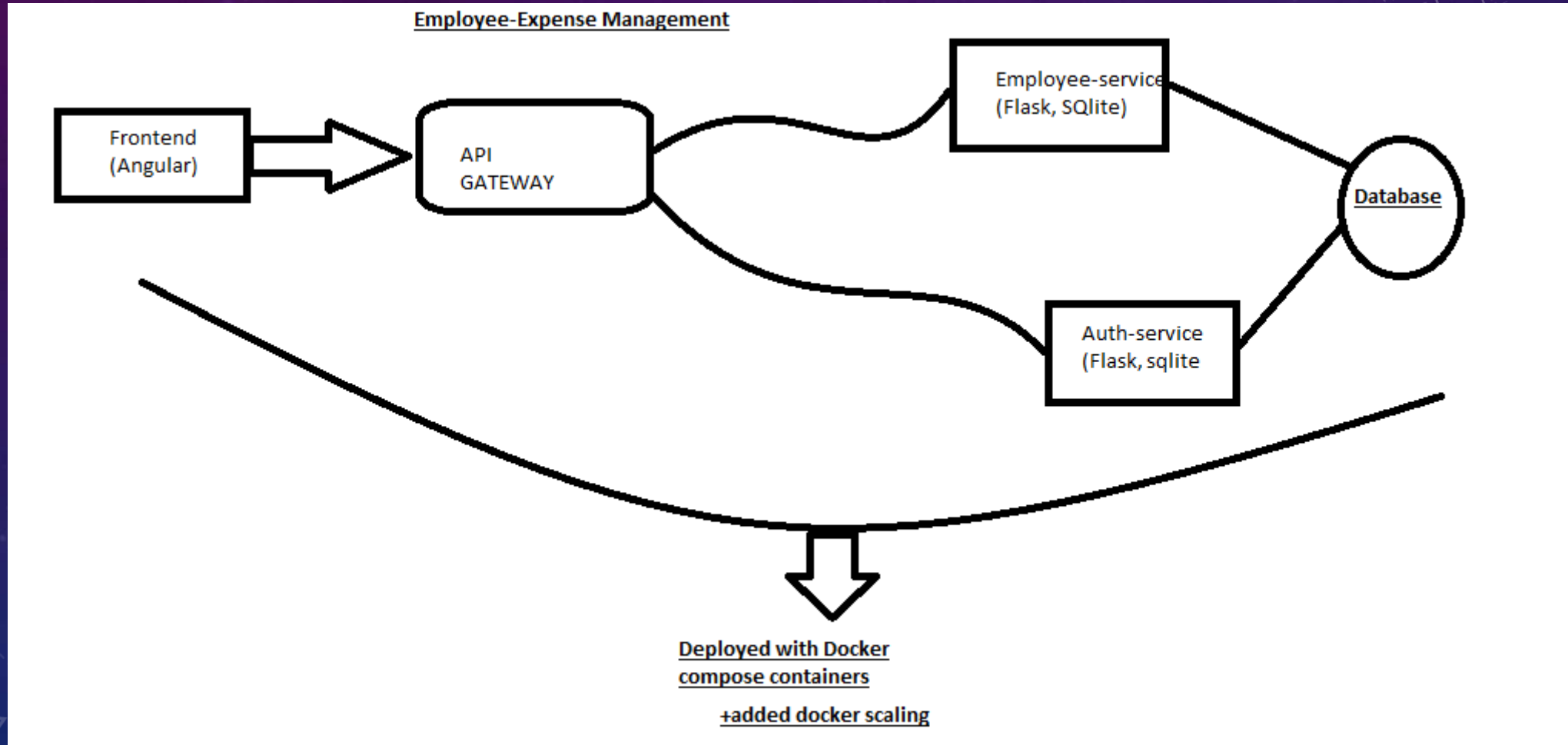# EMPLOYEE EXPENSE MANAGEMENT SYSTEM

A WEB-BASED SYSTEM THAT ALLOWS EMPLOYEES TO SUBMIT EXPENSE CLAIMS AND MANAGERS TO APPROVE/REJECT THEM. BUILT USING **MICROSERVICES ARCHITECTURE**, ANGULAR FRONTEND, FLASK BACKEND, AND CONTAINERIZED WITH DOCKER.

ARCHITECTURE USED

- **Microservices Architecture**
- Each service runs independently
- API Gateway routes requests
- Easy to scale and maintain

ARCHITECTURE DIAGRAM

SERVICES & APIS

GET /EXPENSES → LIST ALL EXPENSES

POST /EXPENSES → SUBMIT NEW EXPENSE

PUT /EXPENSES/{ID} → APPROVE/REJECT EXPENSE

(SOME QUICK EXAMPLES ONLY)

CONTAINERIZATION

- Each service packaged into **separate Docker container**

- Angular frontend containerized
- Database runs inside service containers
- Containers communicate via **Docker network**
- **Orchestration using docker**

THANK YOU