

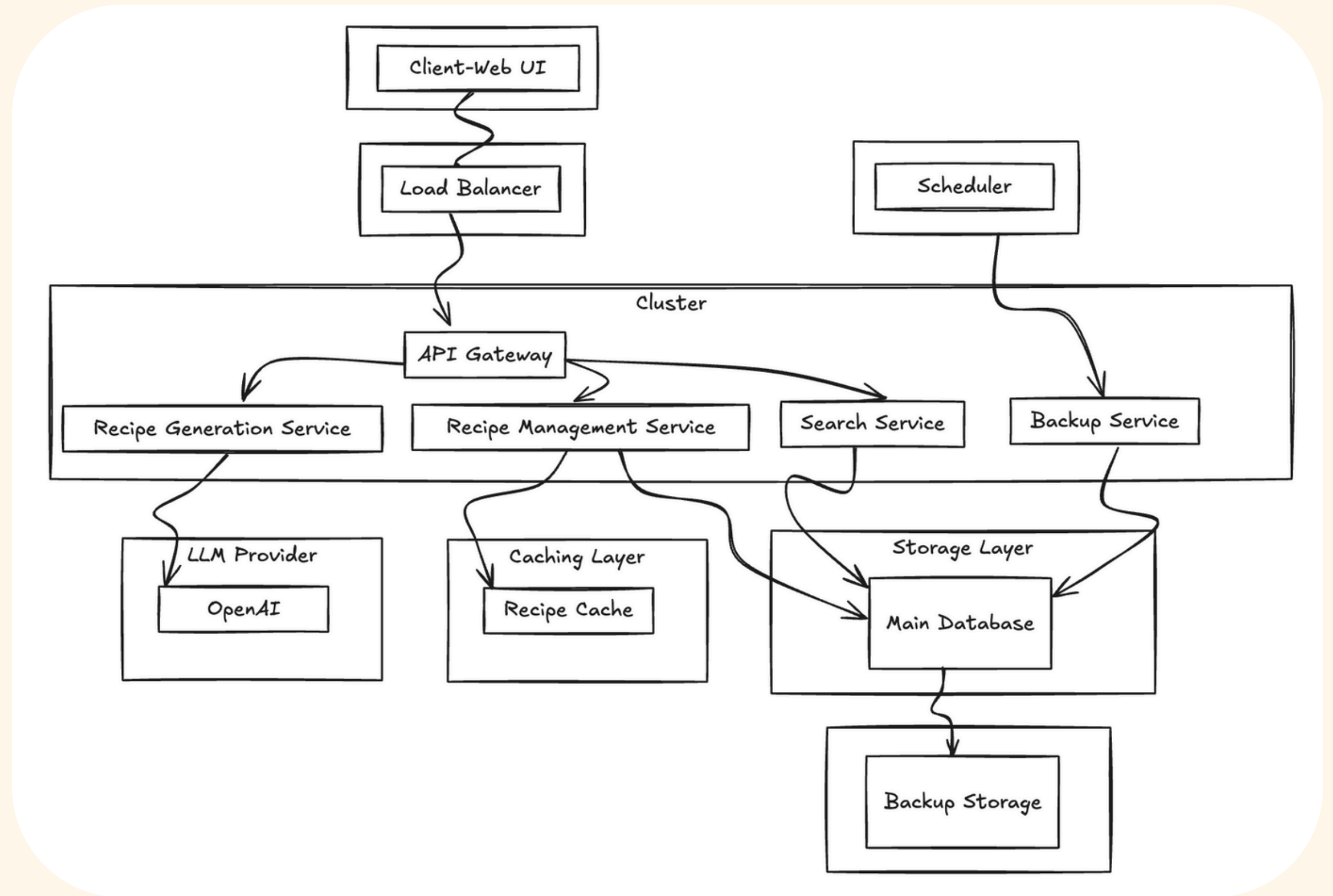


# **Food Recipe Platform**

# System Design



File storage could be added to the storage layer to store recipe pictures.



# Component Analysis



## Compute Engines

Hosts services  
Priced at \$0.10 per  
cluster per hour

## Database

Stores recipe data  
Firestore, CloudSQL?  
\$0.204 per GB/month

## Backup Storage

Stores backups periodically  
QStash or Cloud scheduler  
500 commands/day: free  
Cloud storage, 5GB: free

## Load Balancing

Distribute traffic  
Use LBaaS?

## Caching

Cache frequently accessed data  
RaaS: Upstash Redis?  
\$0.2/100k commands

## LLM Provider

Generate recipes  
OpenAI's GPT-4-turbo  
Token based pricing: ~\$15

Numbers approx. for 10.000 users for LLM provider.