Moro Assessment – High Level System Diagram (Architecture)

Abstract Diagram

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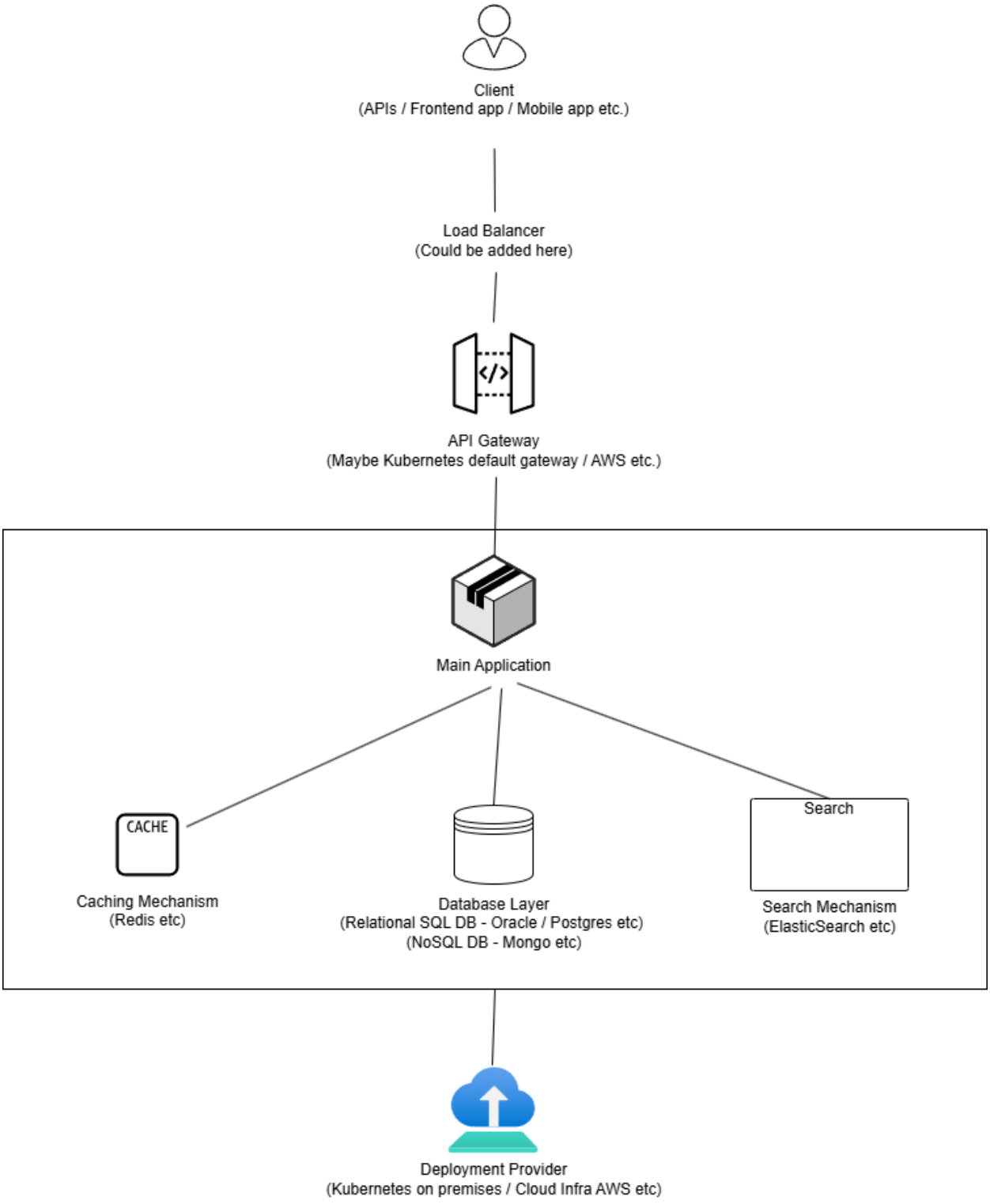
Client
(APIs / Frontend app / Mobile app etc.)
Load Balancer
(Could be added here)
API Gateway
(Maybe Kubernetes default gateway / AWS etc.)
Main Application
CACHE
Caching Mechanism
(Redis etc)
Database Layer
(Relational SQL DB - Oracle / Postgres etc)
(NoSQL DB - Mongo etc)
Search
Search Mechanism
(ElasticSearch etc)
Deployment Provider
(Kubernetes on premises / Cloud Infra AWS etc)

Some key notes for the diagram parts and for extra ones:

- Monitoring and Logging mechanism – Could be for example implemented using ElasicSearch / Kibana – For debugging and for general use
- CI/CD is always handy for smooth deployment processes – Probably using Gitlab and Jenkins
- Messaging mechanism (Kafka, Rabbit MQ) – Could also be an option when required to communicate with external systems – Useful for systems with high traffic
- Database techniques for making the application run quick and smooth – Sharding and indexing etc.