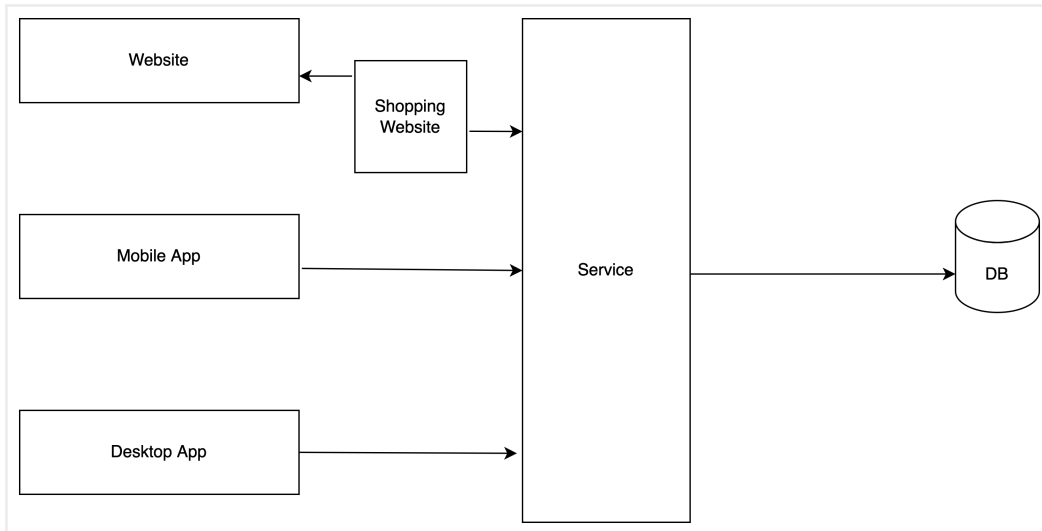


Microservices

Services

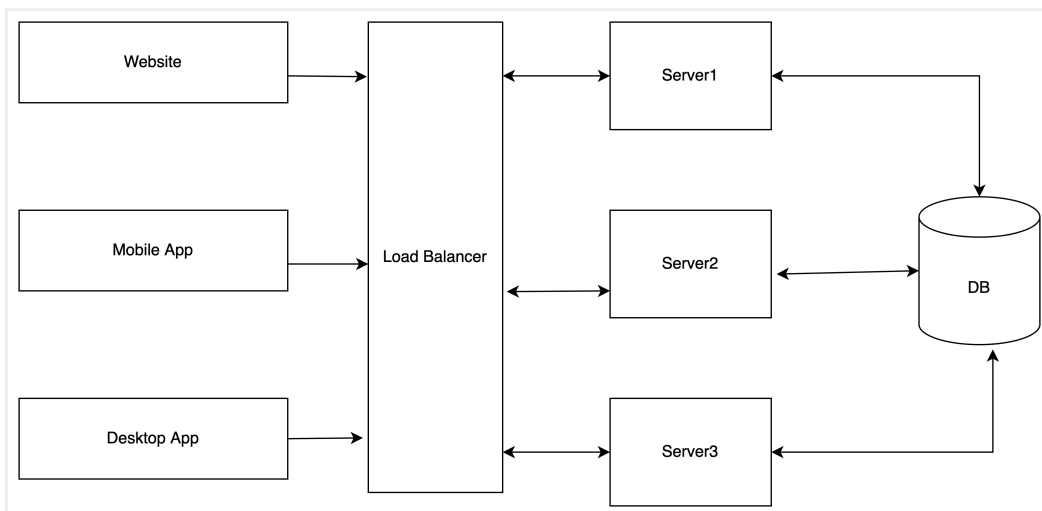
- service is a piece of s/w that provide the functionality to another piece of s/w like mobile app or desktop app



- Micro service is a service oriented architecture

Service Oriented Architecture

- Instead of using modules if we use services many apps can use the same services

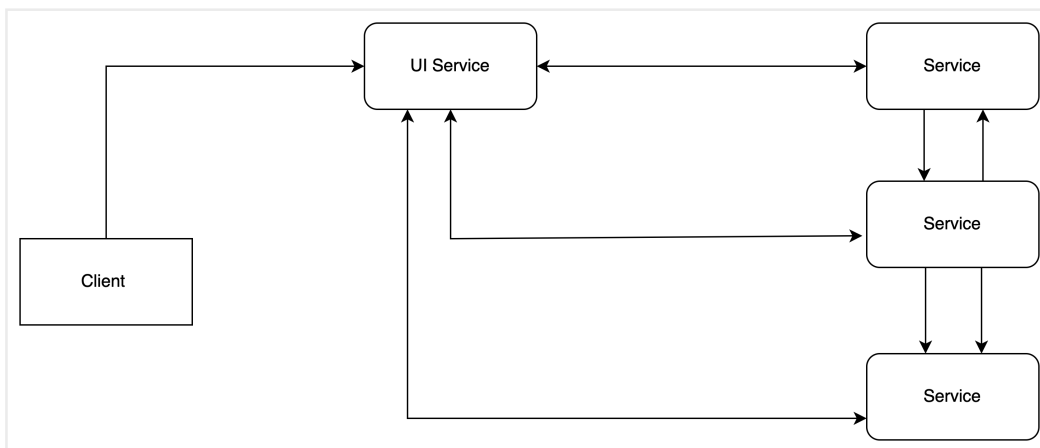


SOA Benefits

1. Scalability
2. Reusability
3. Standardize interface
4. Stateless

Micro Services

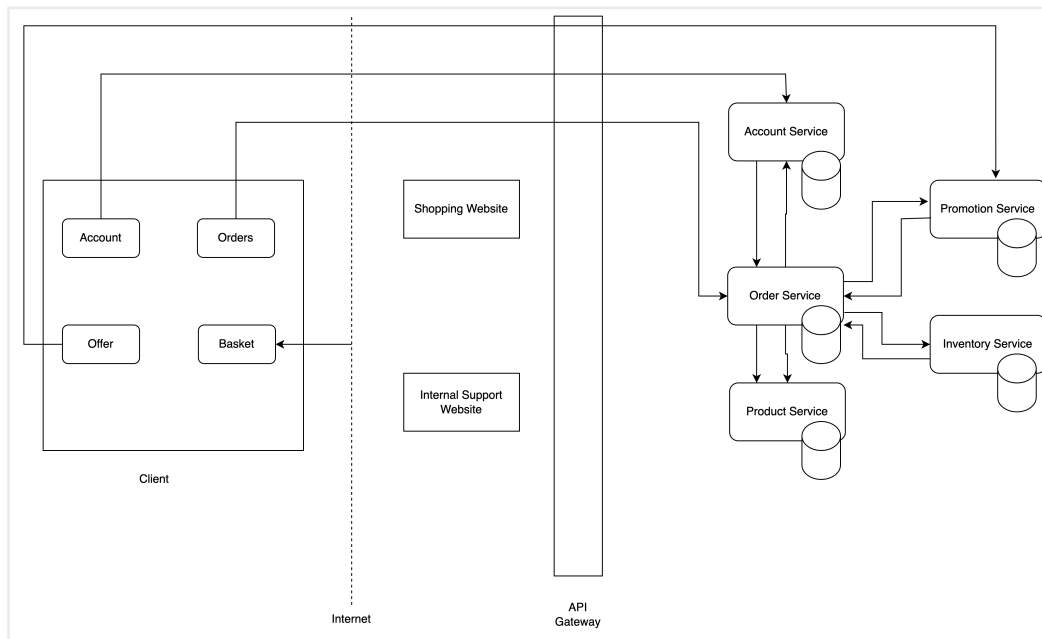
- Micro service architecture follows additional set of design principles



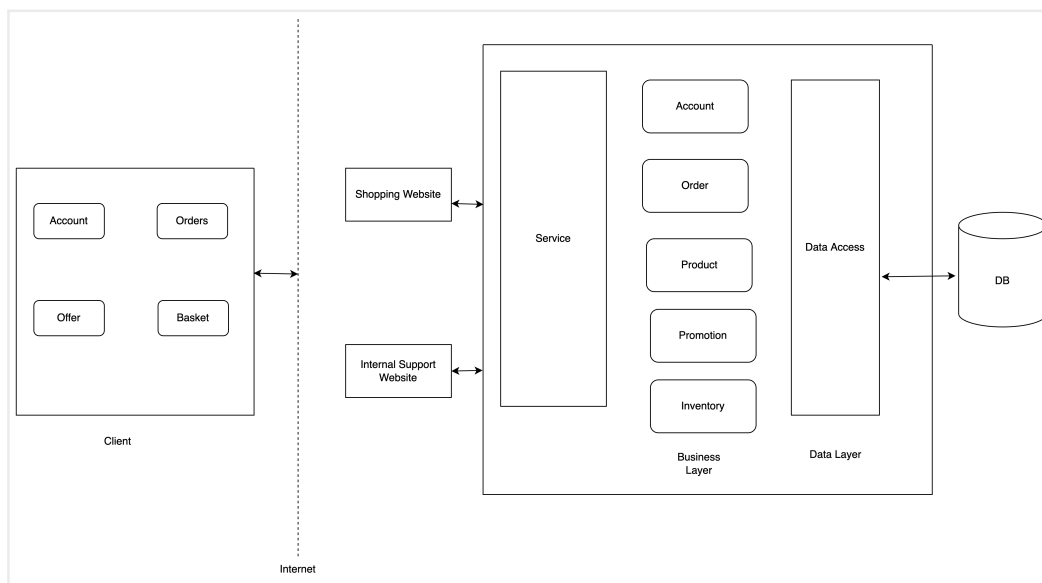
Micro Services Provides

1. Efficiently scalable applications
2. Flexible applications
3. High performance applications
4. Applications powered by multiple services
5. Small services with single focus
6. Light weight communication mechanism - Both client to service and service to service
7. Independent data storage
8. Independently changeable
9. Independently deployable
10. Distributed transaction
11. Centralised tooling for management

Micro Services: Ecommerce Application



Monolithic:



- No restriction on size
- Large codebase
- Longer development time
- Challenging deployment
- Fixed technology stack
- High levels of coupling b/w modules and services
- Failure could affect the whole system
- Scaling requires duplicate of whole application
- Single service on server
- Minor change could result in complete rebuild

Benefits of micro services

- Shorter development time
- Reliable and faster deployment
- Enable frequent update
- Decouple the changeable parts
- Security
- Increased up time
- Highly scalable and better performance
- Better ownership and knowledgeable
- Right technology

implementation 'org.springdoc:springdoc-openapi-ui:1.6.11'

Export the content into csv file in spring boot

<https://codeburst.io/returning-csv-content-from-an-api-in-spring-boot-63ea82bbcf0f>

Regulatory Report

APAC

EMEA

NA

LATAM

Front office

Middle Office - exchange

Back Office