

EVOLUTION OF

---

**WEB ARCHITECTURE**

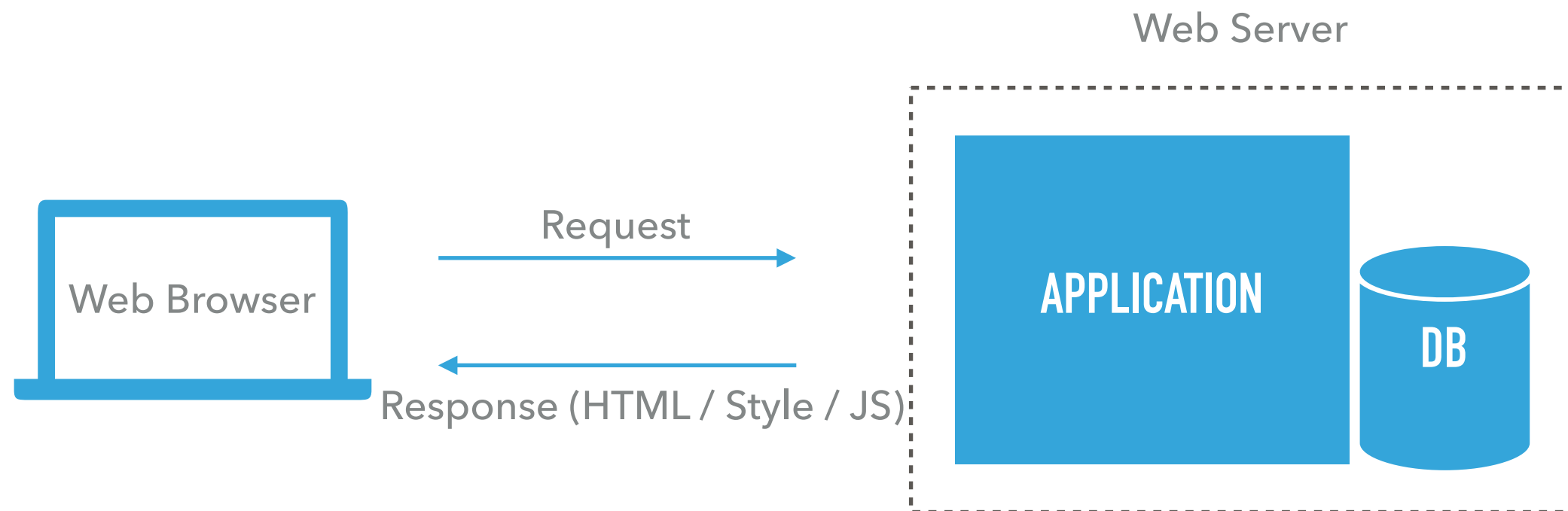
# WEB BROWSER

- ▶ Software for retrieving information resource on the World Wide Web

# WEB SERVER

- ▶ Computer program that accepts HTTP request and return HTTP response

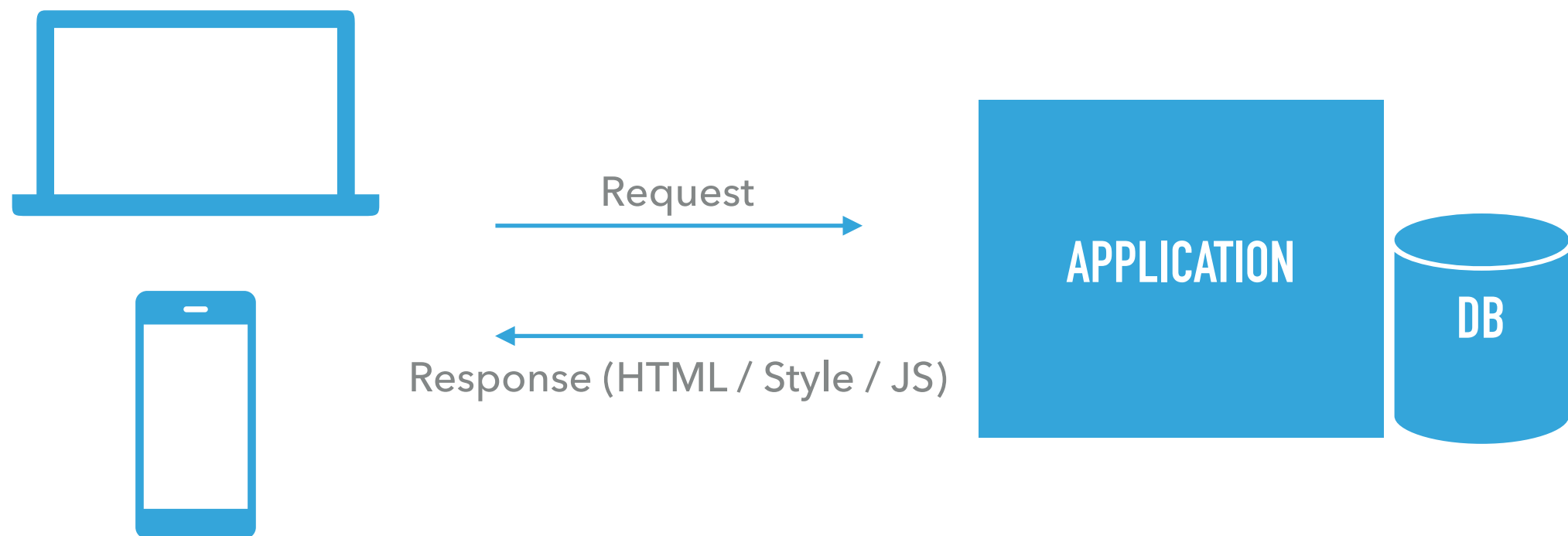
# TRADITIONAL WEB ARCHITECTURE



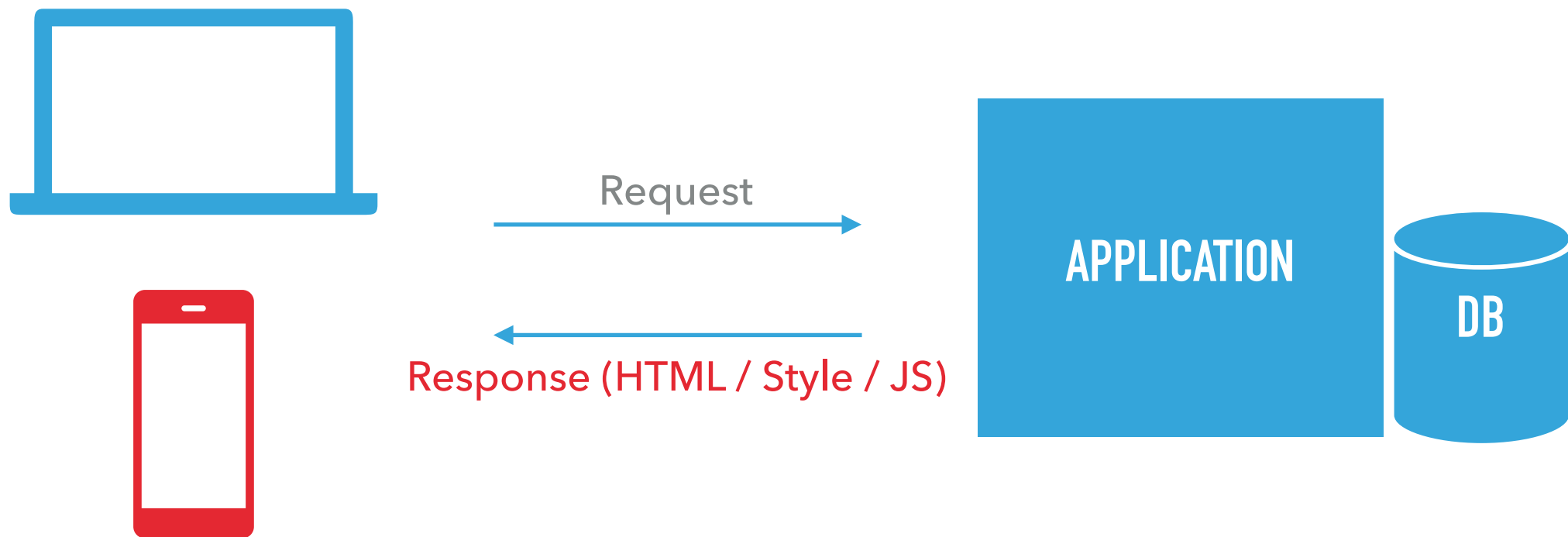
# TRADITIONAL WEB ARCHITECTURE

- ▶ One system on web server
- ▶ Common use in simple system

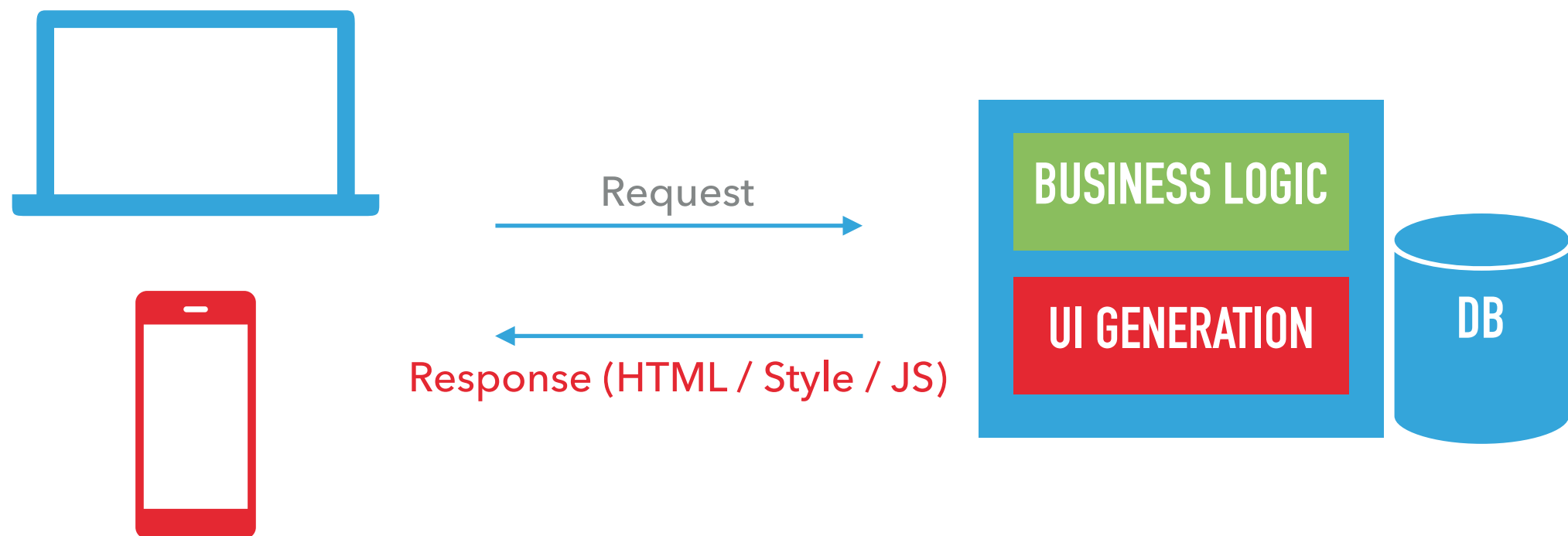
# MULTI CLIENT ARCHITECTURE



# MULTI CLIENT ARCHITECTURE



# MULTI CLIENT ARCHITECTURE

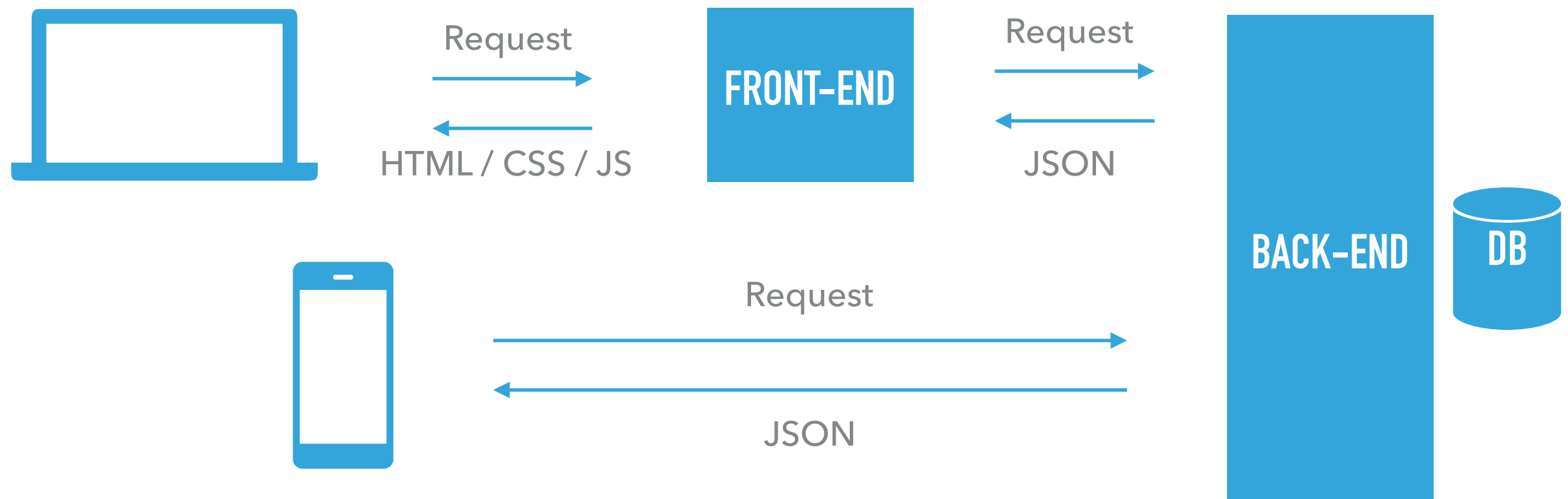




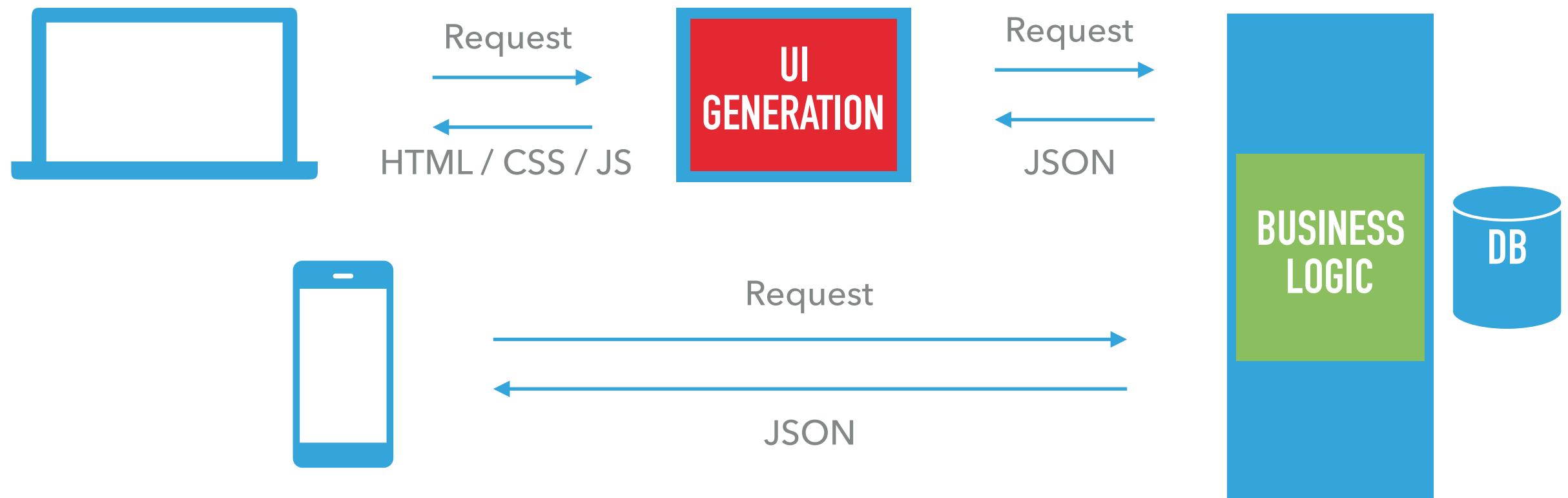
# WEB SERVICE

- ▶ Web applications that interact with other web application for the purpose of exchanging data

# MULTI CLIENT ARCHITECTURE



# MULTI CLIENT ARCHITECTURE



# MULTI CLIENT ARCHITECTURE

- ▶ Reusability business logic
- ▶ Availability (but not the best)

# WEB SERVICE

/products  
/categories  
/users  
/static  
/auth  
/search

WEB  
SERVICE

DB

A diagram illustrating a web service architecture. On the left, a list of endpoints is shown: /products, /categories, /users, /static, /auth, and /search. In the center is a large blue rectangle labeled 'WEB SERVICE'. To the right of the rectangle is a blue cylinder labeled 'DB', representing a database. The components are arranged horizontally, suggesting a flow from endpoints to the service and then to the database.

## WEB SERVICE

/products  
/categories  
/users  
/static  
/auth  
**/search**

WEB  
SERVICE

DB

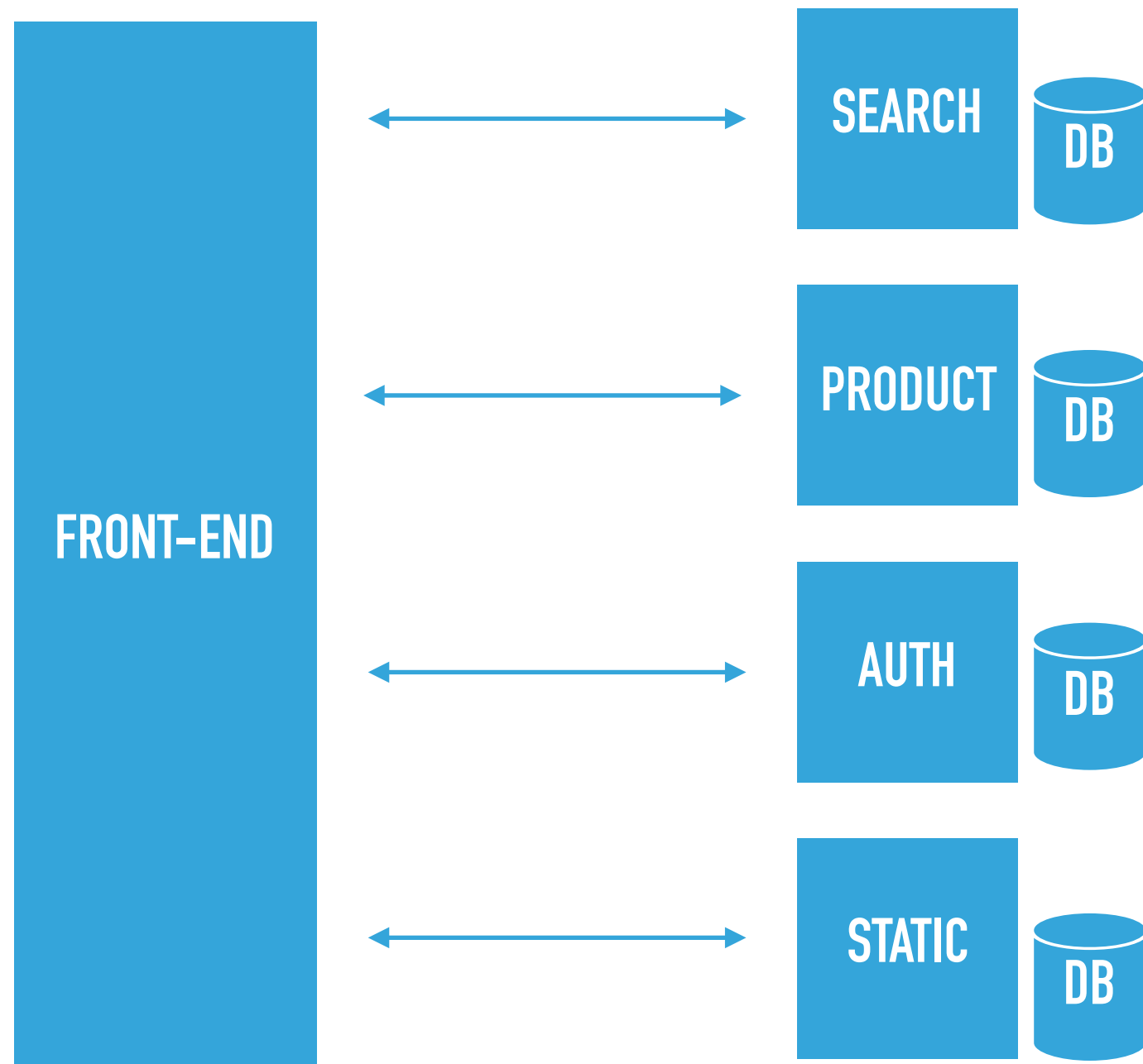
## WEB SERVICE

/products  
/categories  
/users  
/static  
/auth  
**/search**

**BACK-END**

**DB**

## MICROSERVICE





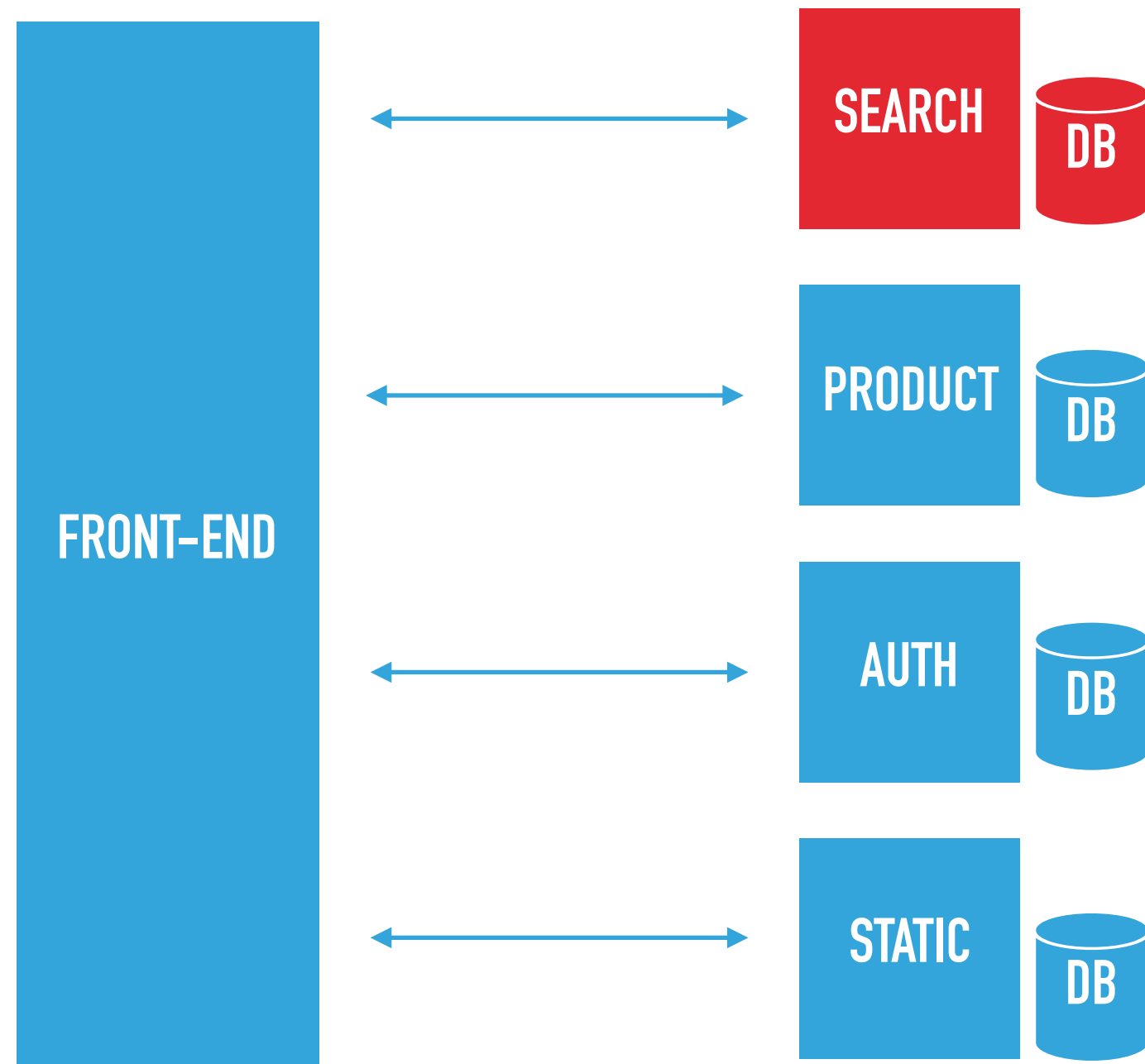
### ADVANTAGE

- ▶ Availability
- ▶ Scalability
- ▶ Technology Independent

# ADVANTAGE

- ▶ Availability
- ▶ Scalability
- ▶ Technology Independent

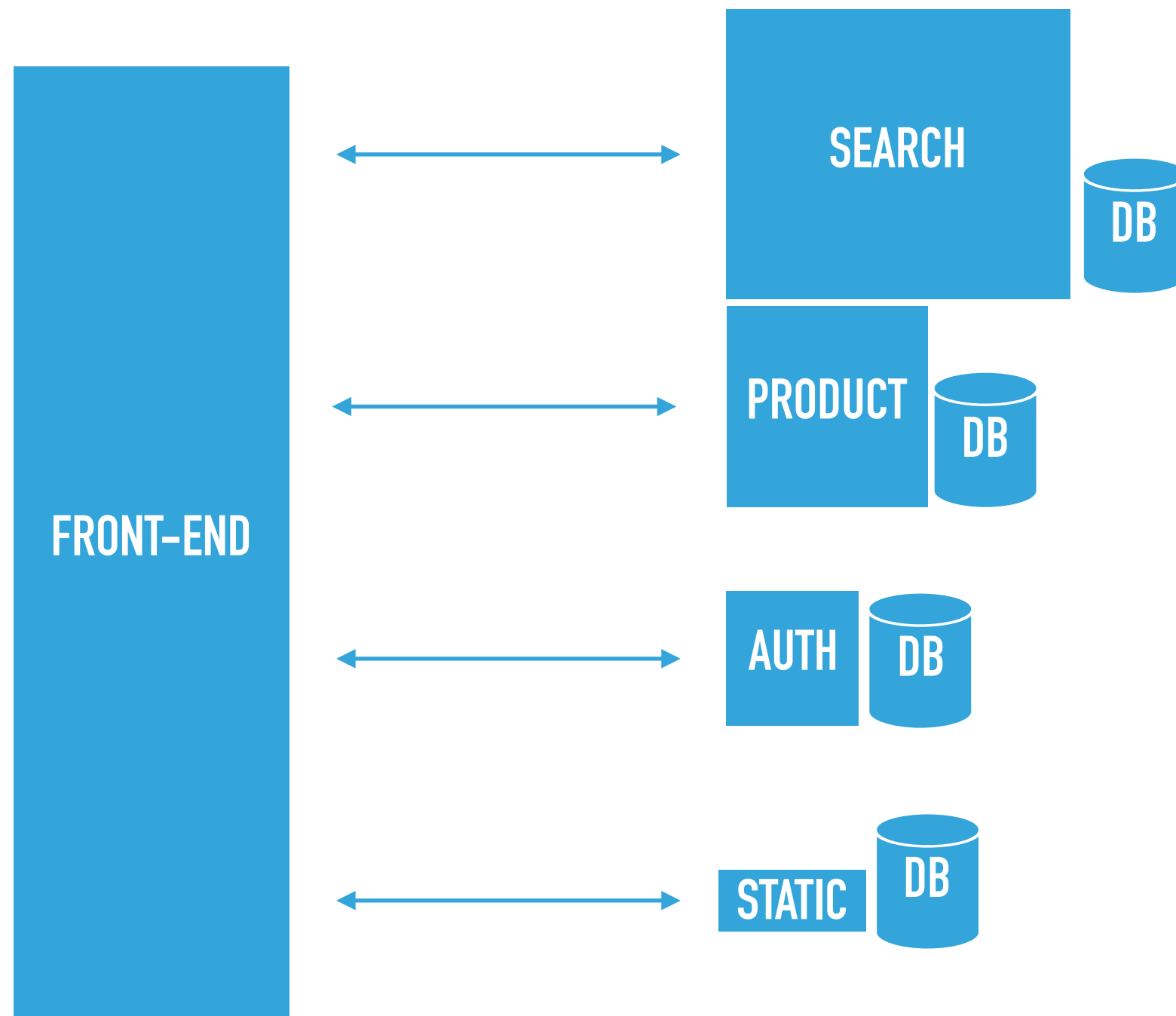
## MICROSERVICE



# ADVANTAGE

- ▶ Availability
- ▶ Scalability
- ▶ Technology Independent

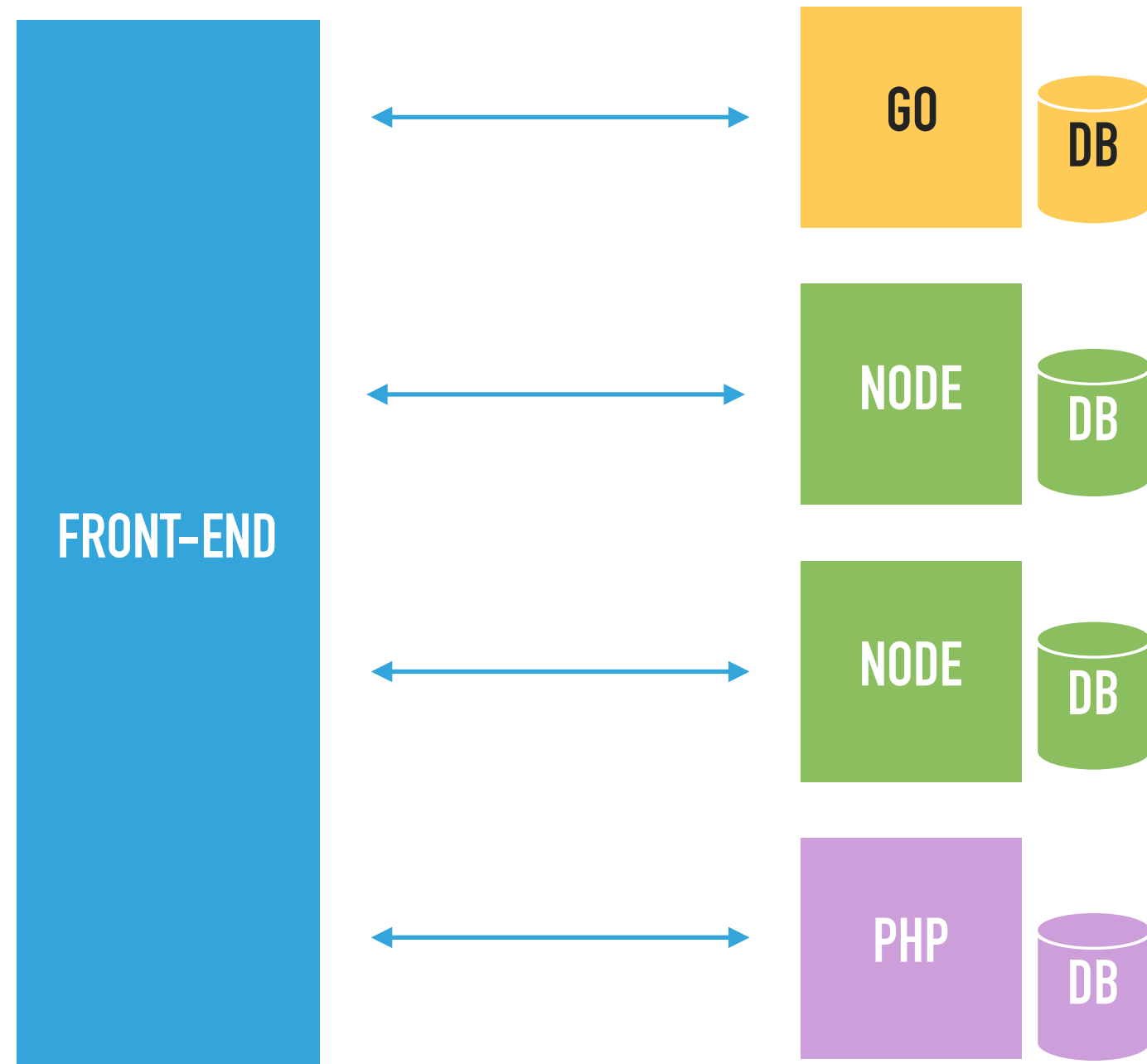
## MICROSERVICE



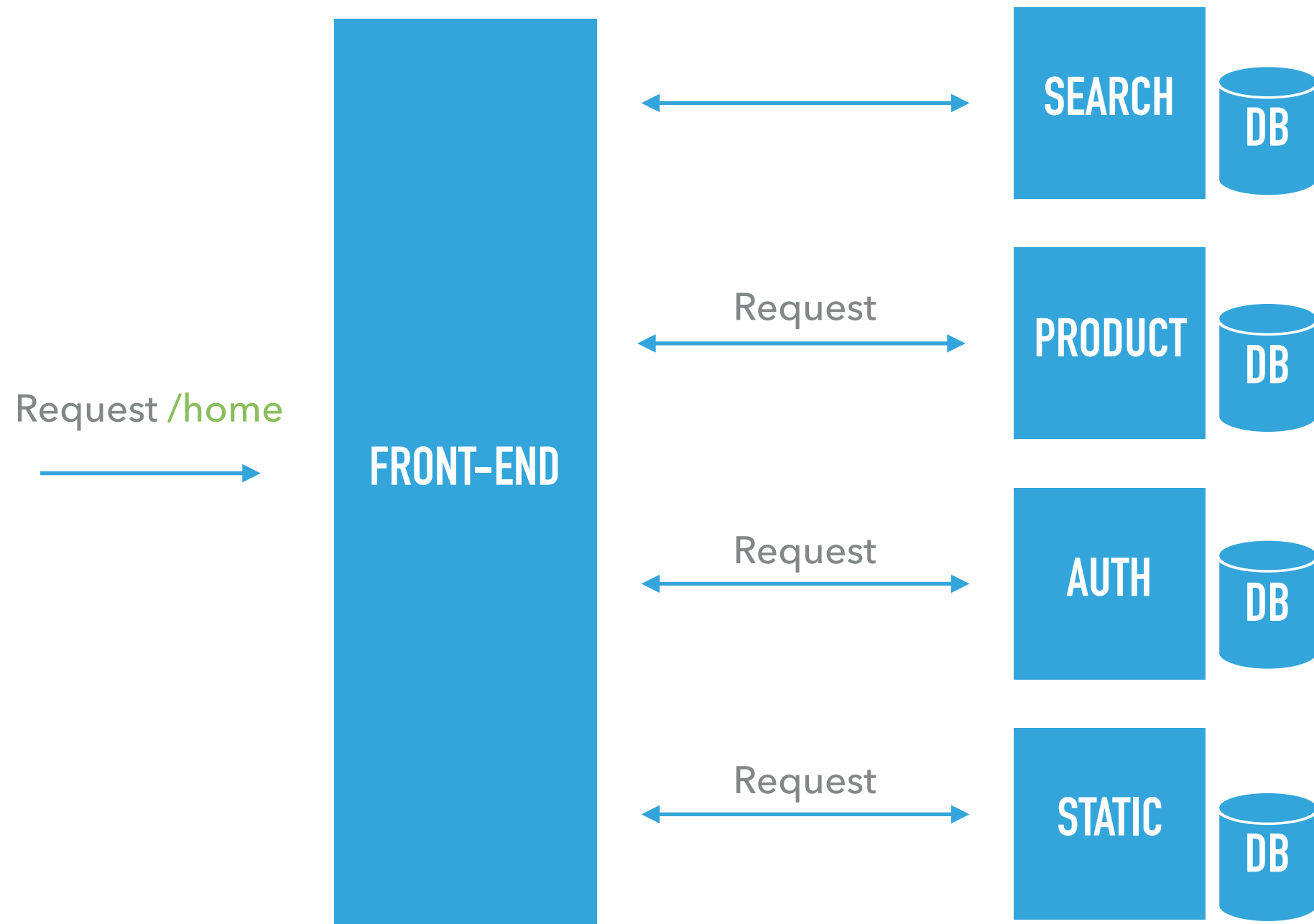
# ADVANTAGE

- ▶ Availability
- ▶ Scalability
- ▶ Technology Independent

## MICROSERVICE

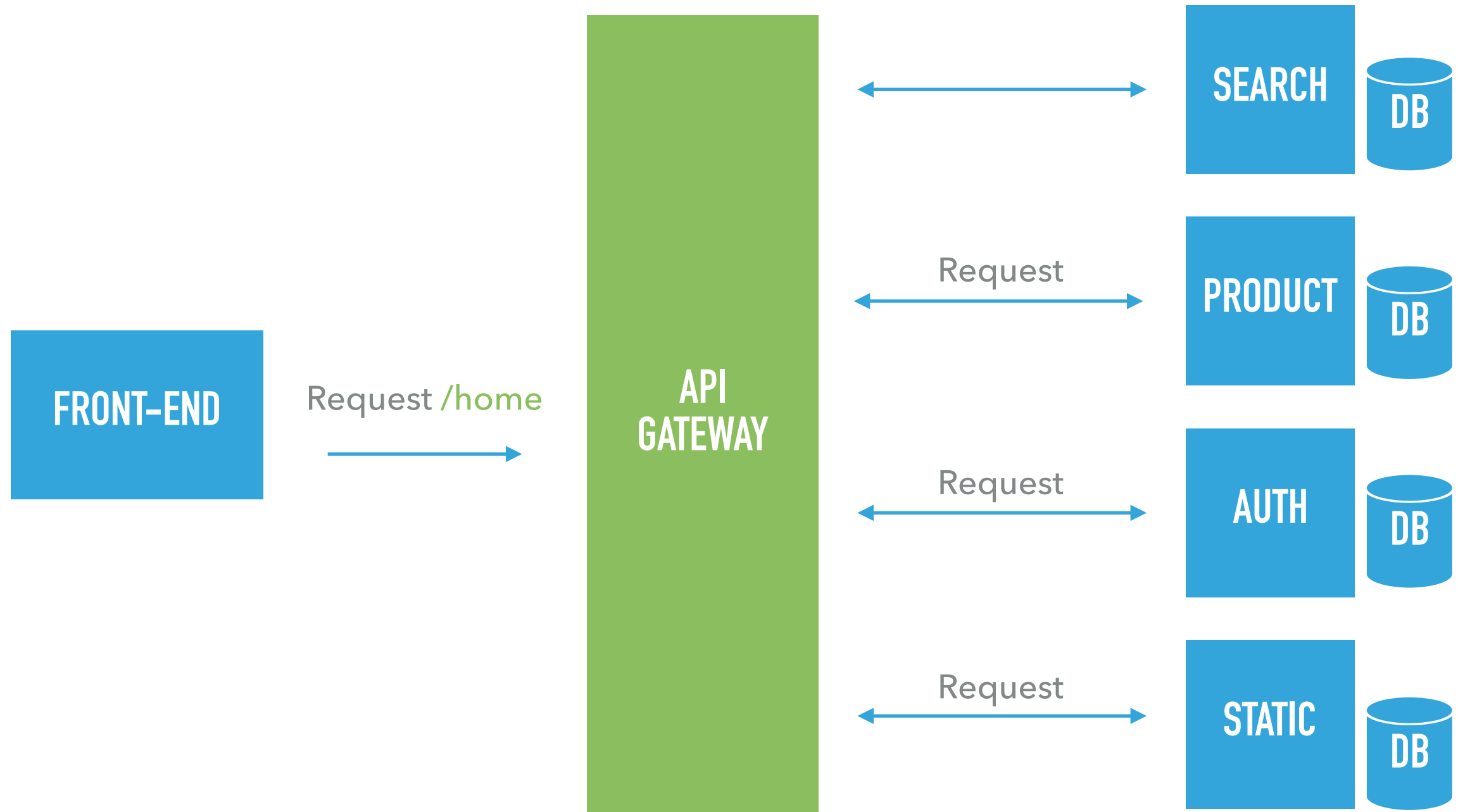


## MICROSERVICE

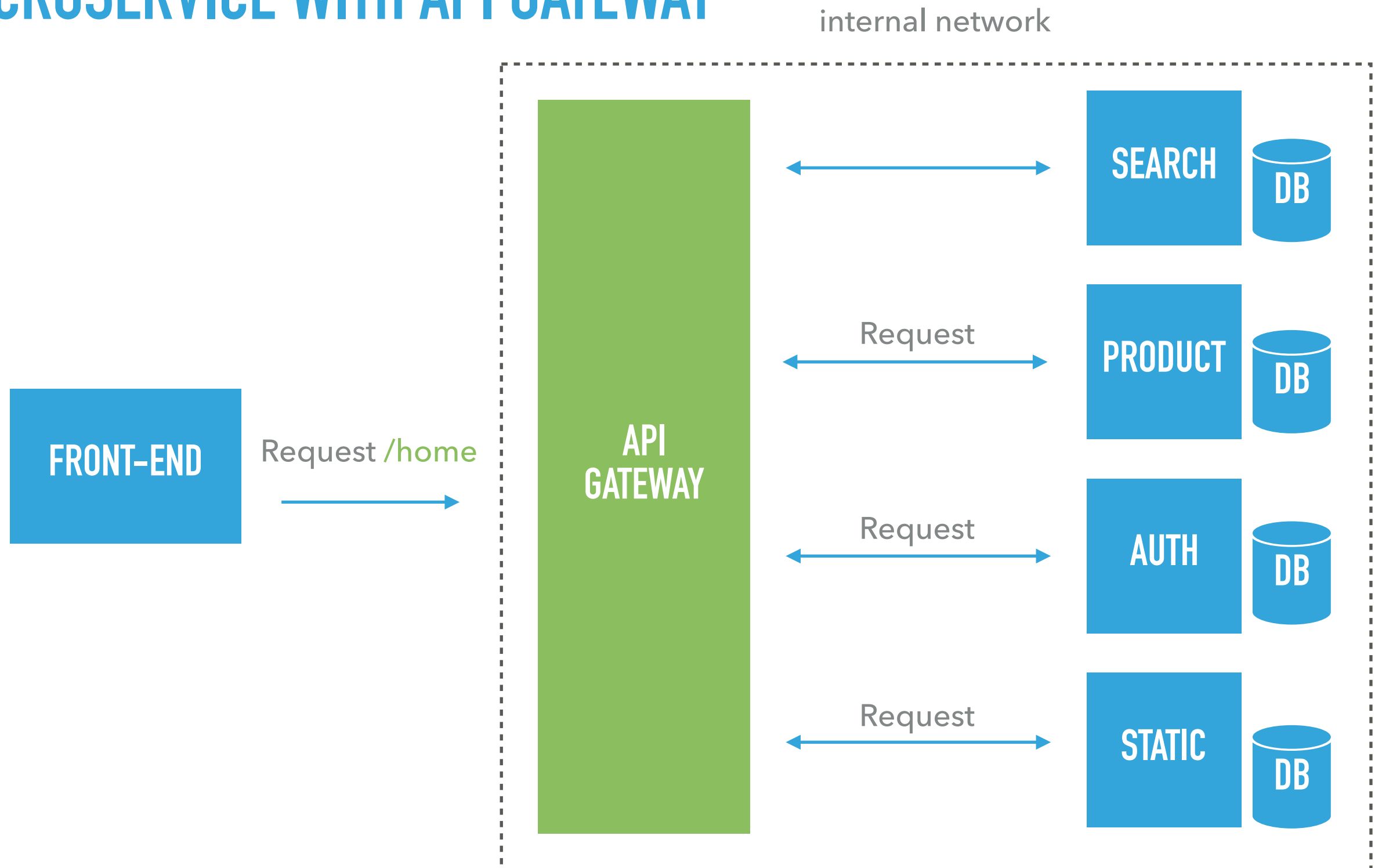




# MICROSERVICE WITH API GATEWAY



## MICROSERVICE WITH API GATEWAY



# API GATEWAY

- ▶ Single endpoint
- ▶ Web service abstraction layer
- ▶ Security
- ▶ Performance