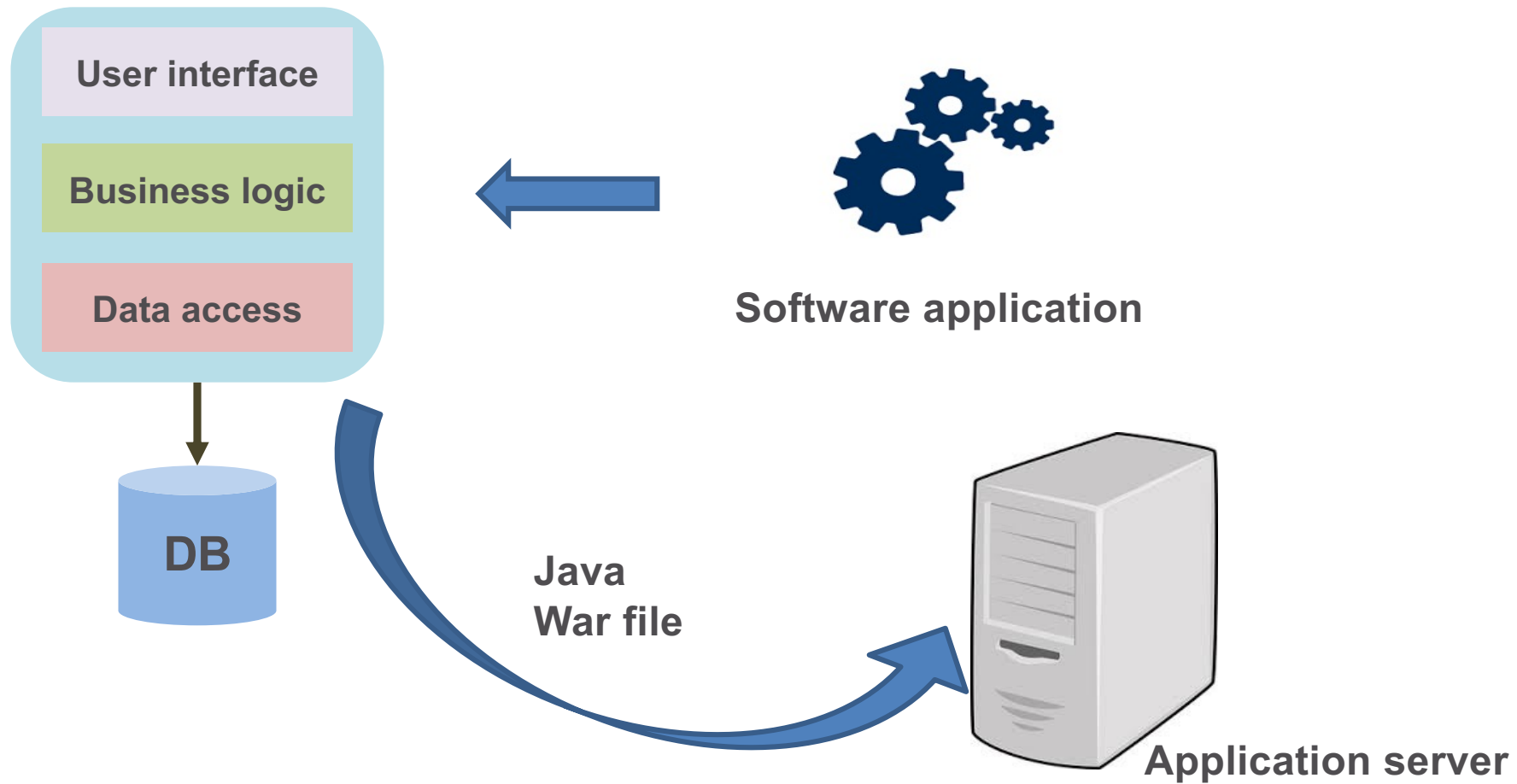
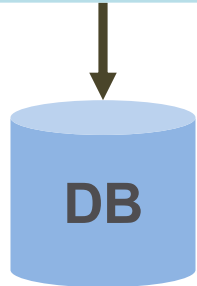
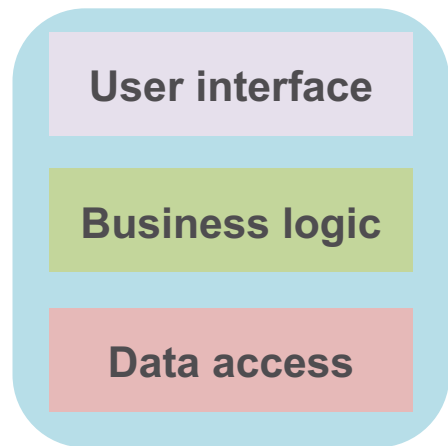


MICROSERVICES

Monolithic application



Monolithic application



Software application

Advantages:

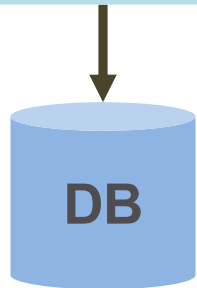
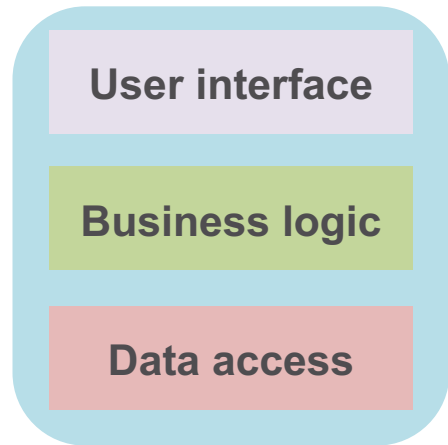
- ✓ One code base
- ✓ Simple to realize
- ✓ Database easy to handle
- ✓ Efficient for small applications

Java
War file



Application server

Monolithic application



Software application

Advantages:

- ✓ One codebase
- ✓ Simple to realize
- ✓ Database easy to handle
- ✓ Efficient for small applications

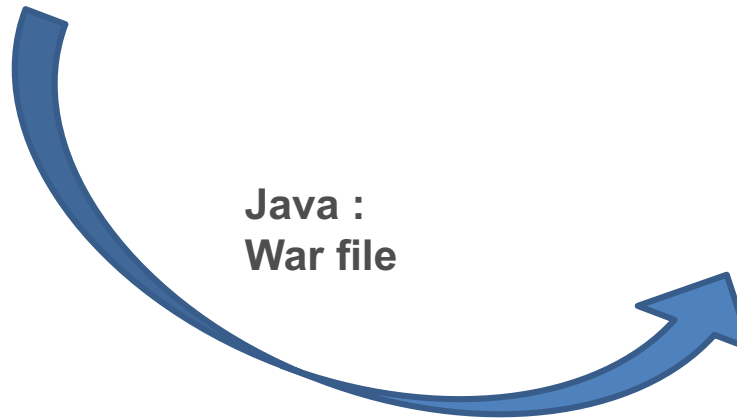
Limits:

- ✗ Strong coupling of the components
- ✗ Long build and deployment time
- ✗ Hard to scale

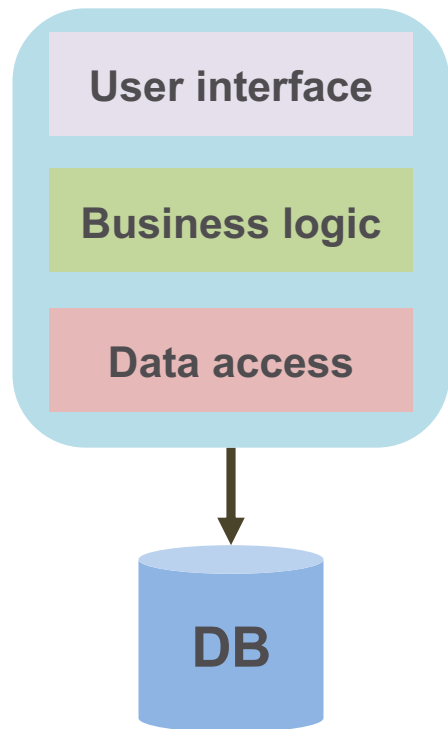
Java :
War file



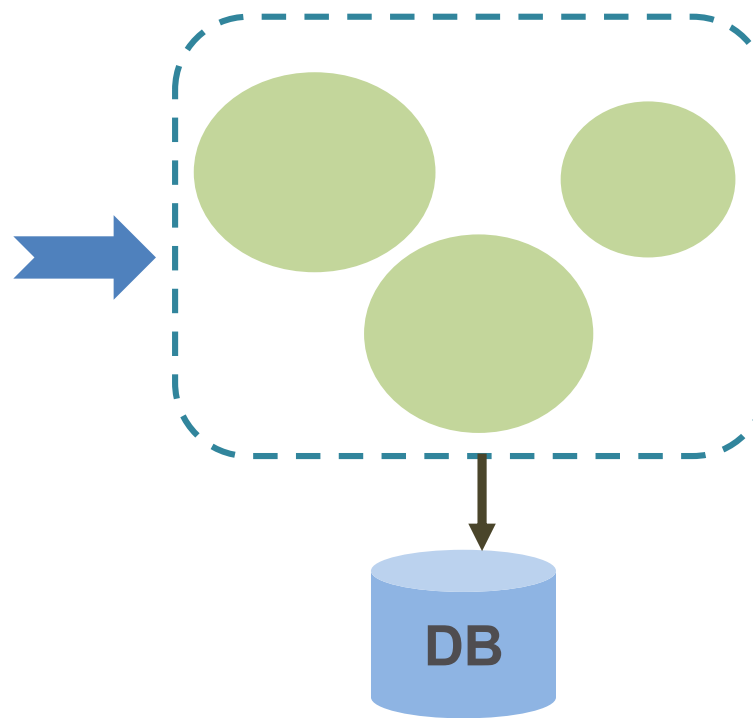
Application server



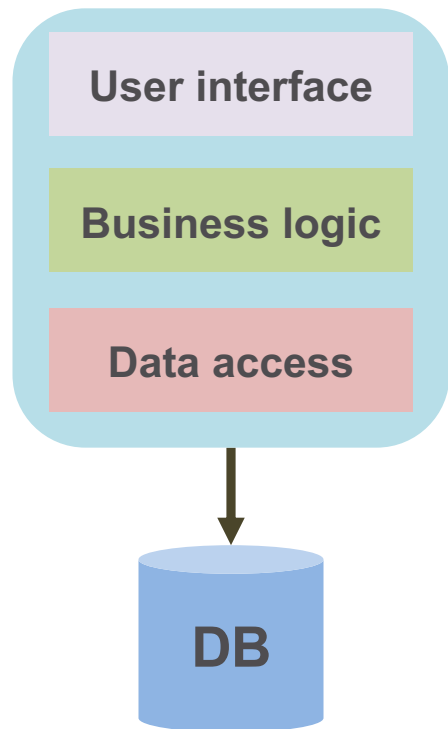
Monolithic application



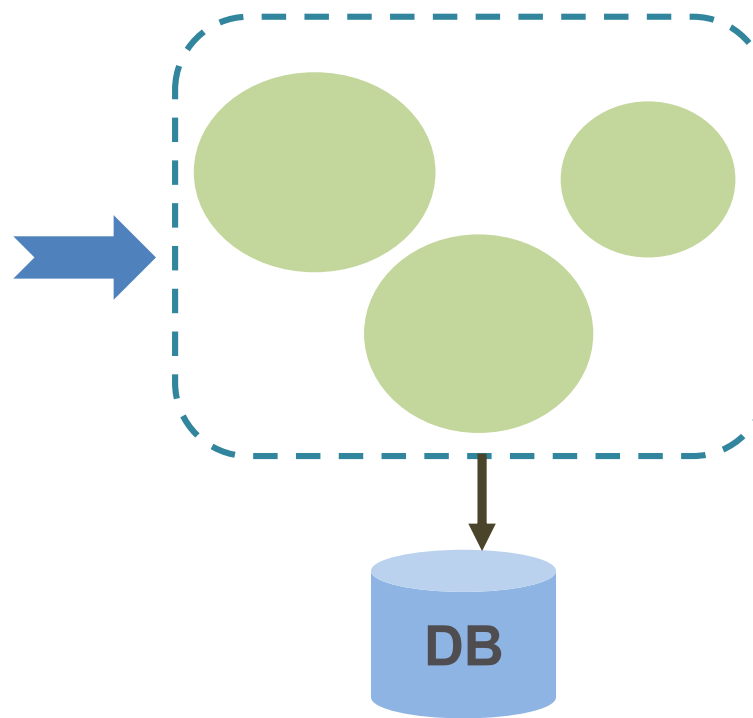
Service oriented application



Monolithic application



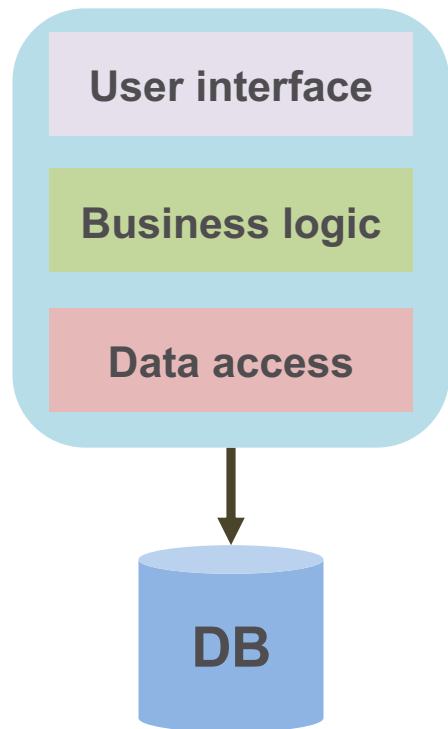
Service oriented application



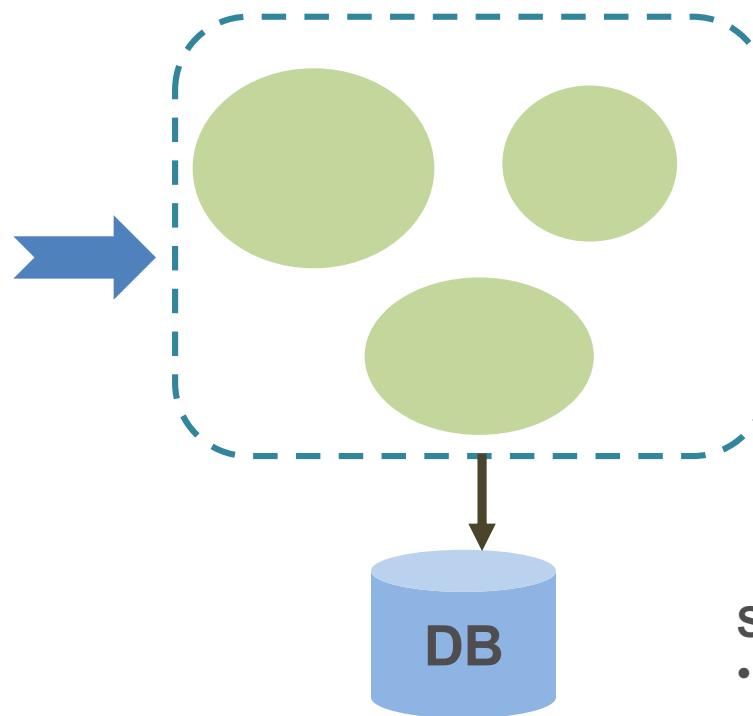
SOA advantages:

- Modularity, loosely coupling
- Technologies freeness
- Standard communication interfaces
- Interoperability

Monolithic application



Service oriented application



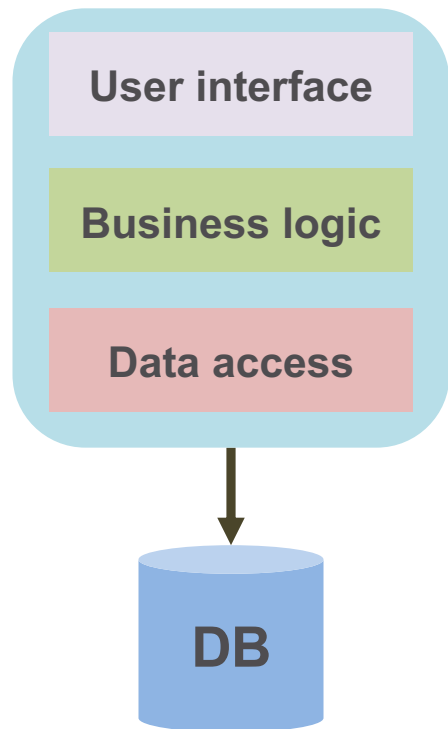
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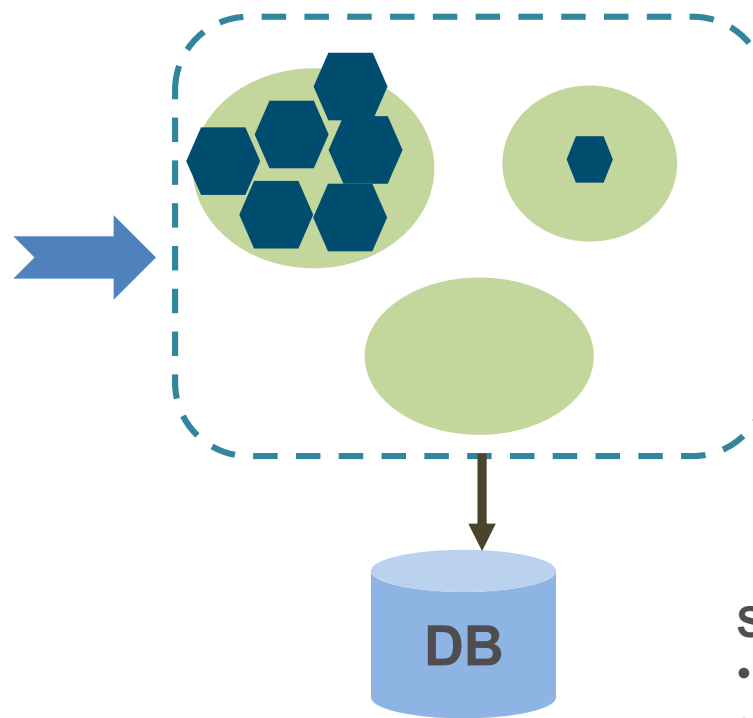
SOA limits:

- Complex to implement (WSDL, SOAP)

Monolithic application



Service oriented application



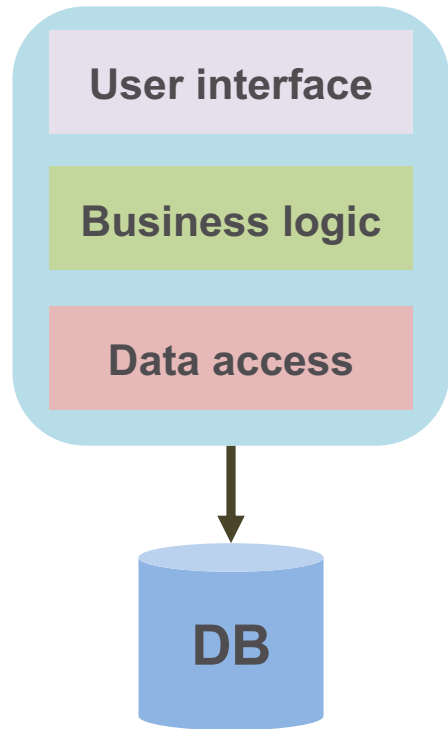
SOA advantages:

- Modularity, loosely coupling
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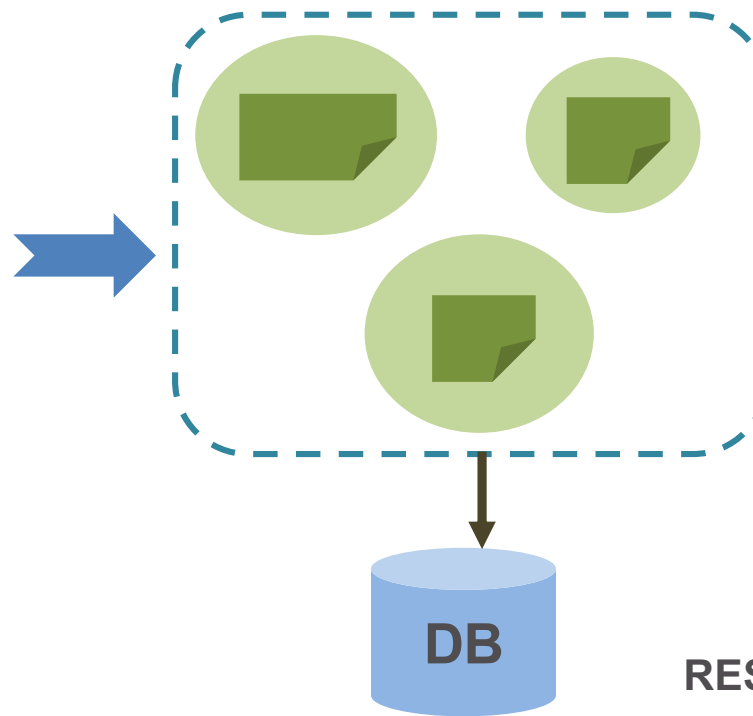
SOA limits:

- Complex to implement (WSDL, SOAP)
- Services granularity?

Monolithic application



Resource oriented application



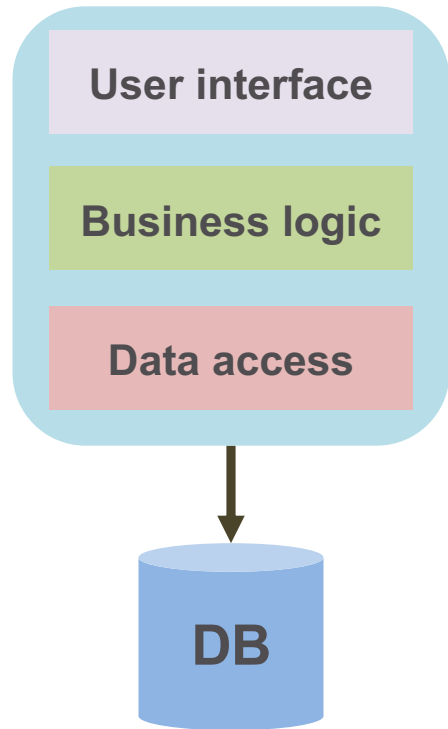
REST advantages:

- Modularity, loosely coupling
- Technologies freeness
- Standard communication interfaces
- Interoperability
- **Simple to setup**

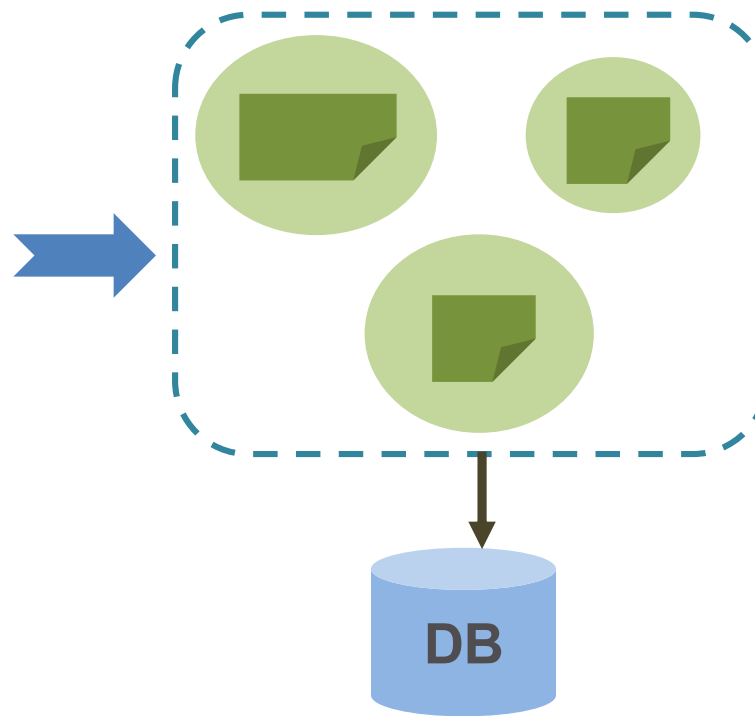
REST limits:

- Services granularity?

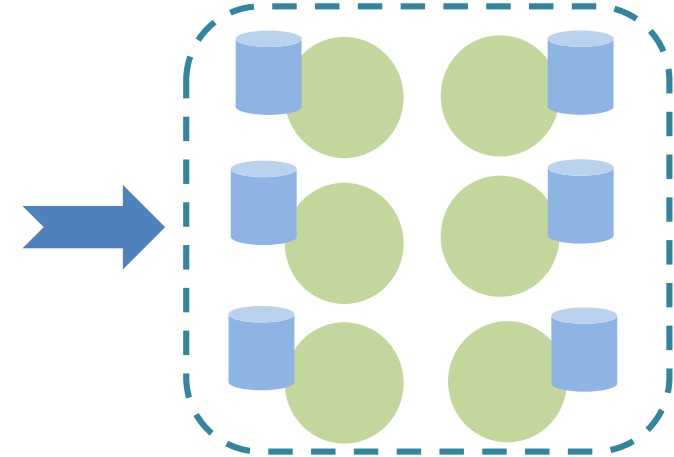
Monolithic application



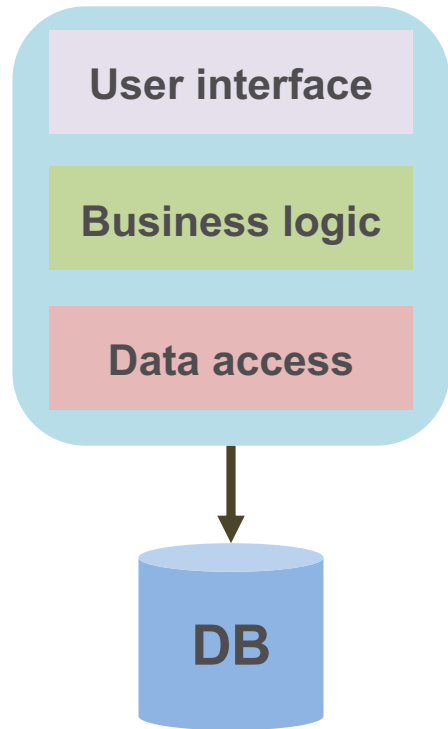
Resource oriented application



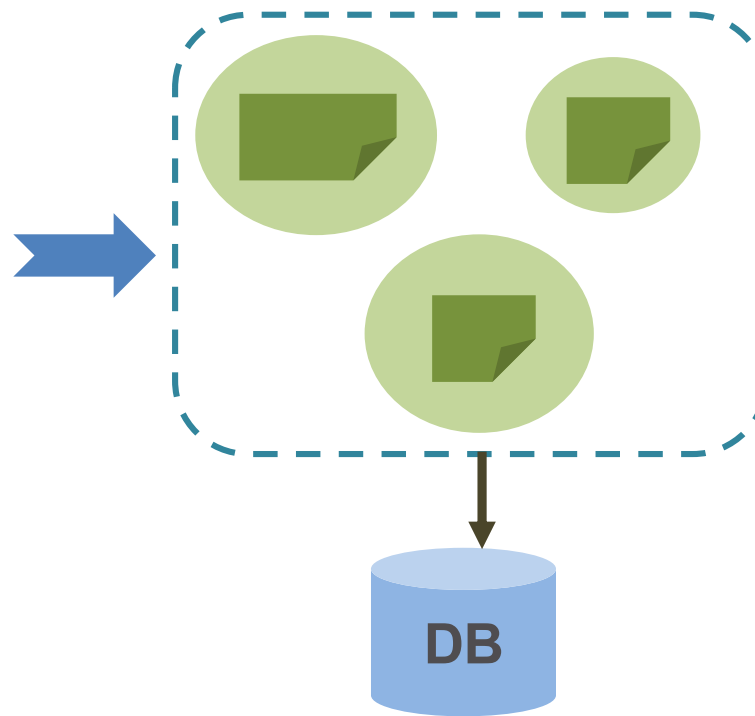
Microservices based application



Monolithic application



Resource oriented application



Microservices based application

