

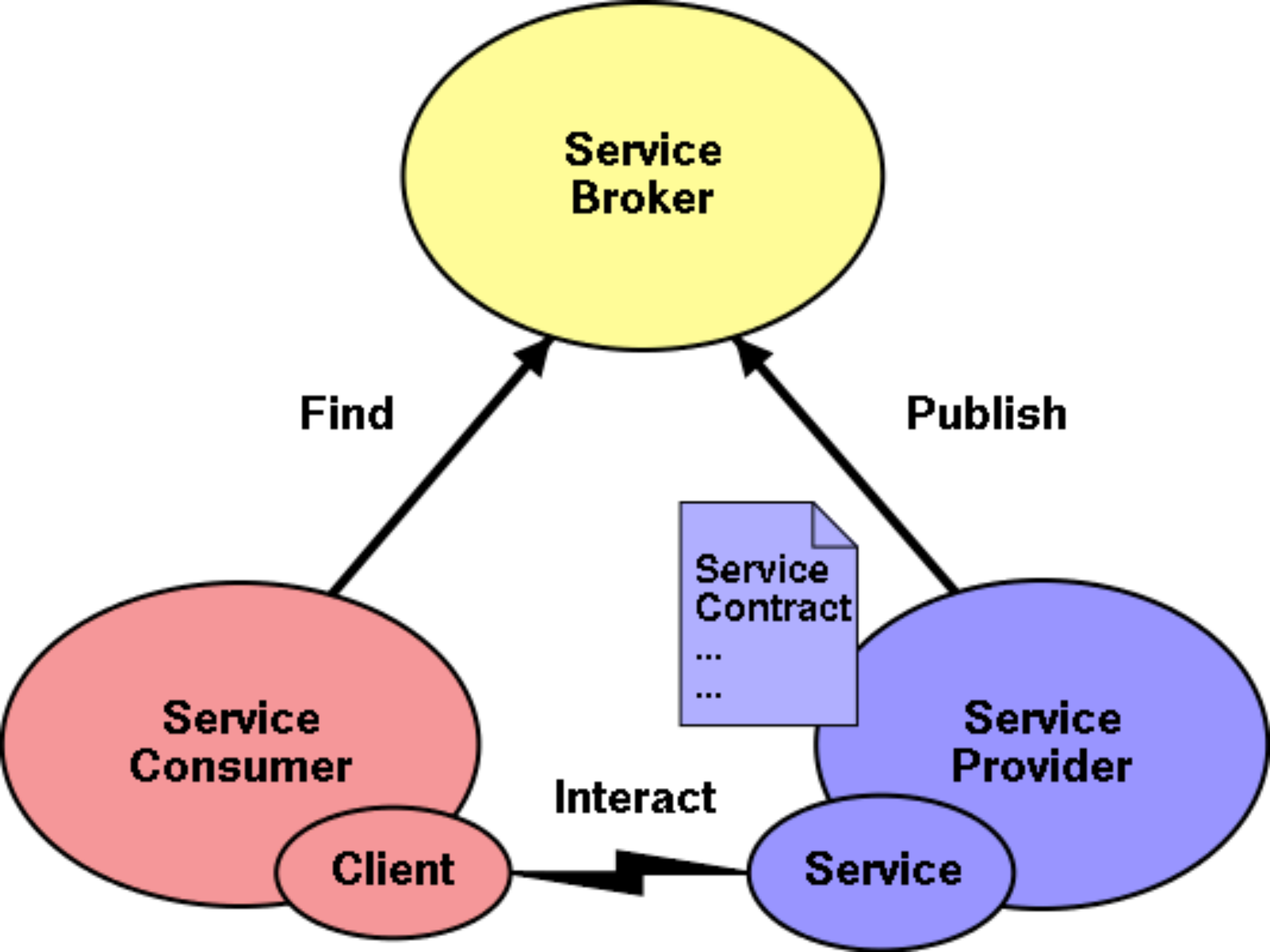
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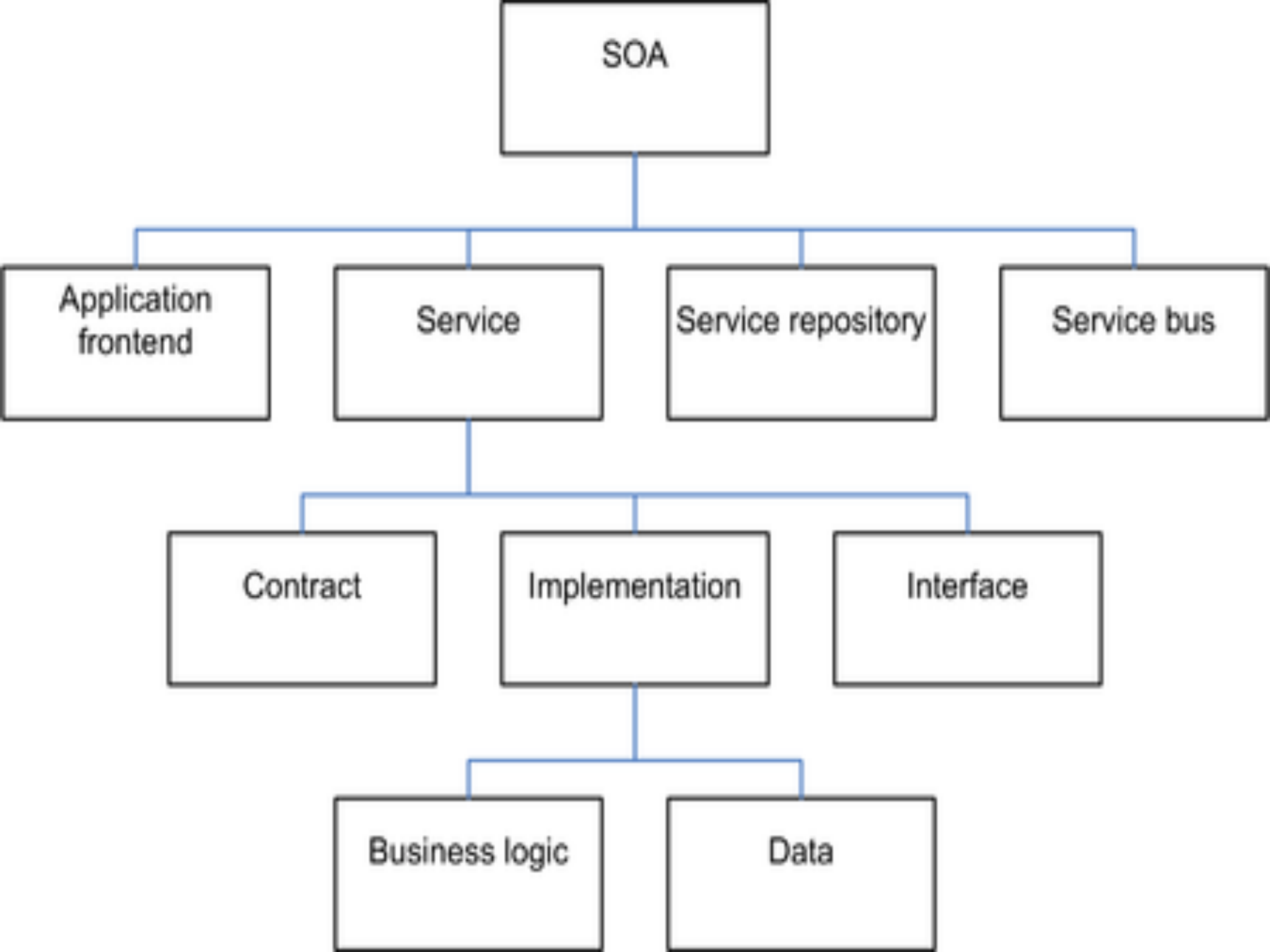


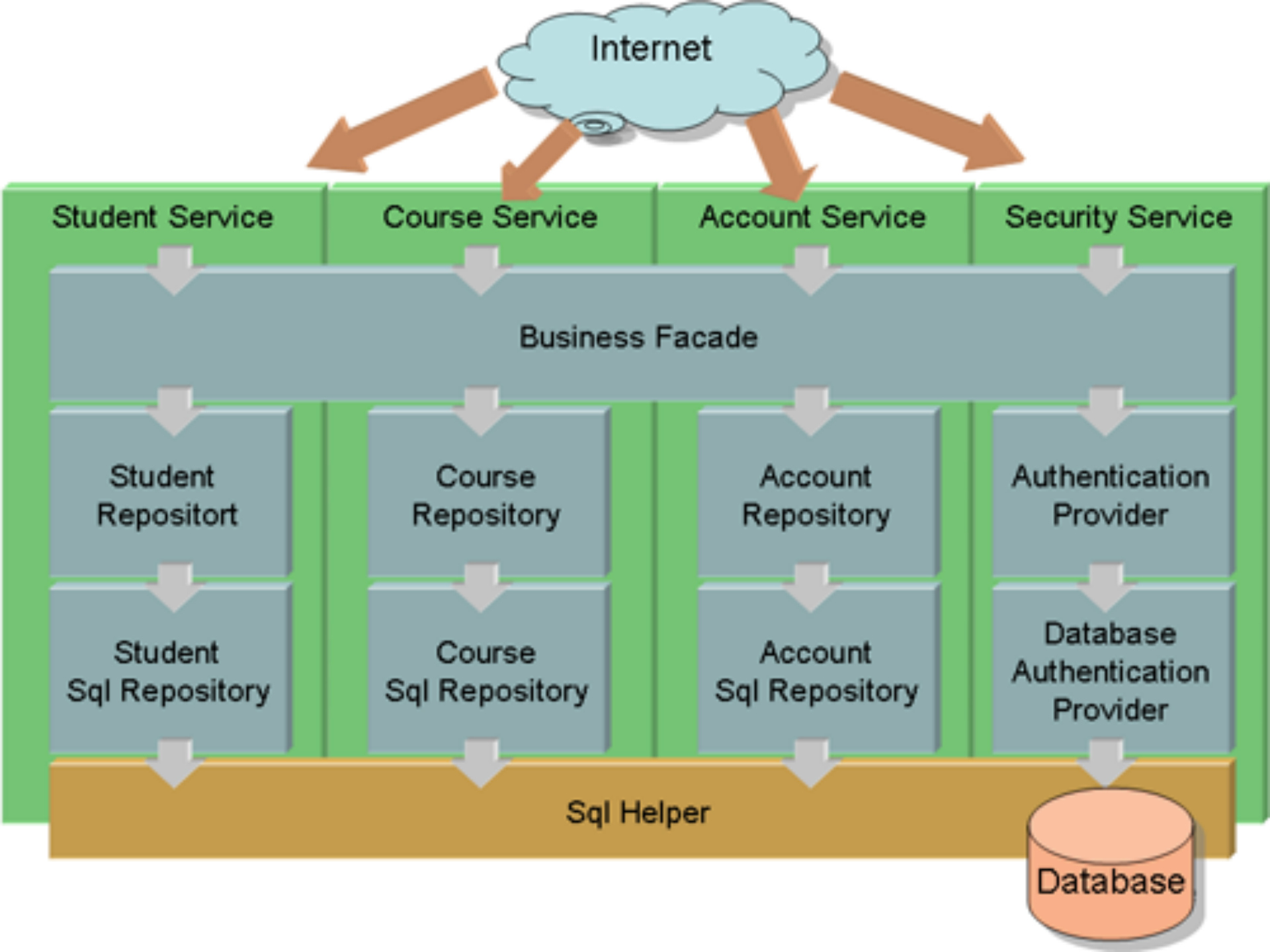
Service-oriented architecture (SOA) - Software design and software architecture design pattern based on discrete pieces of software providing application functionality as services to other applications. This is known as Service-orientation.

A service is a self-contained unit of functionality, such as retrieving an online bank statement.

The main benefit of SOA is to allow simultaneous use and easy mutual data exchange between programs of different vendors without additional programming or making changes to the services.







Internet

Student Service

Course Service

Account Service

Security Service

Business Facade

Student
Repositort

Course
Repository

Account
Repository

Authentication
Provider

Student
Sql Repository

Course
Sql Repository

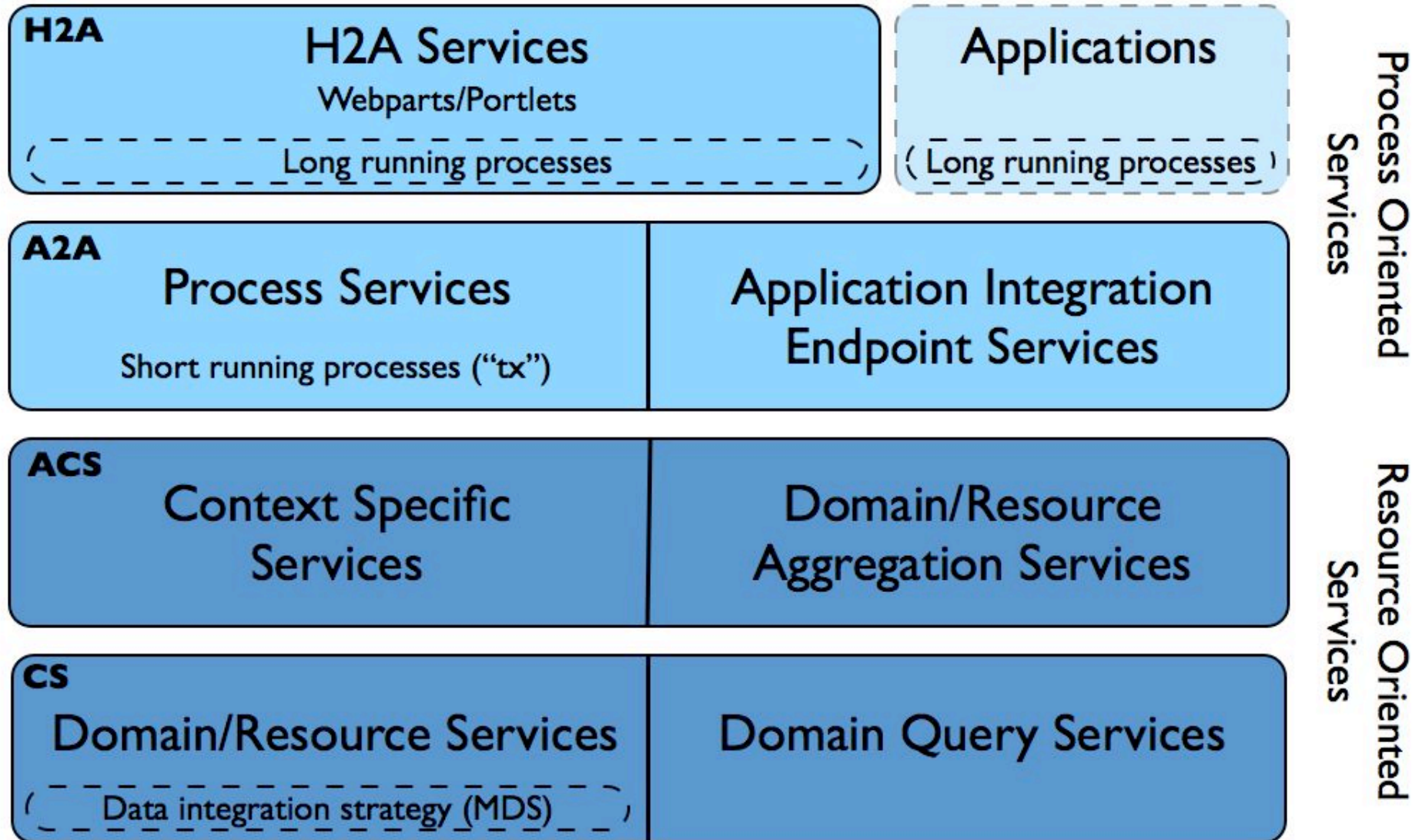
Account
Sql Repository

Database
Authentication
Provider

Sql Helper

Database

SOA - Service categorization



H2A

Design rules

P1. A service shall have one named owner

P2. A service shall provide documented business value

P21. A service shall be categorized (OW SOA category)

P3. A service shall do one only thing, and one thing well

P4. A H2A service (webpart or portlet) shall be an independent component

P41. A service shall provide heartbeat and traffic monitoring

P5. A H2A Service (webpart or portlet) shall be a part of a bigger whole, not trying to dictate other H2A

P6. A H2A service shall not have internal workflow

P7. Too generic webparts or portlets shall be avoided

P90. A service shall have a documented coupling to the contractual and requirement for service usage

A2A

Design rules

P1. A service shall have one named owner

P2. A service shall provide documented business value

P20. All services shall be in the service universe

P21. A service shall be categorized (OW SOA category)

P22. A service shall have an "authentication, authorisation, endpoint strategy"

P23. A service shall document its Service Level Agreement SLA (response time, availability++)

P3. A service shall do one only thing, and one thing well

P30. A service shall have a versioning strategy (ACS, CS)

P31. A service shall provide for audit and monitoring of service usage

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ACS

Design rules (often called design-time governance)

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P40. A service shall provide at least one Evolving Service Endpoint

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CS

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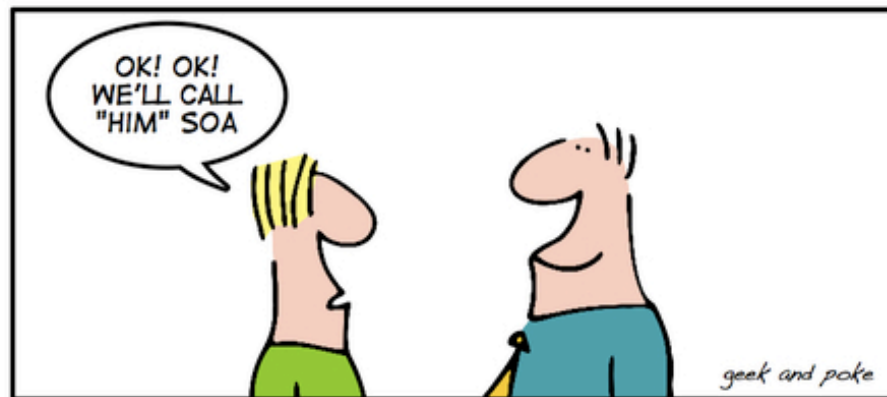
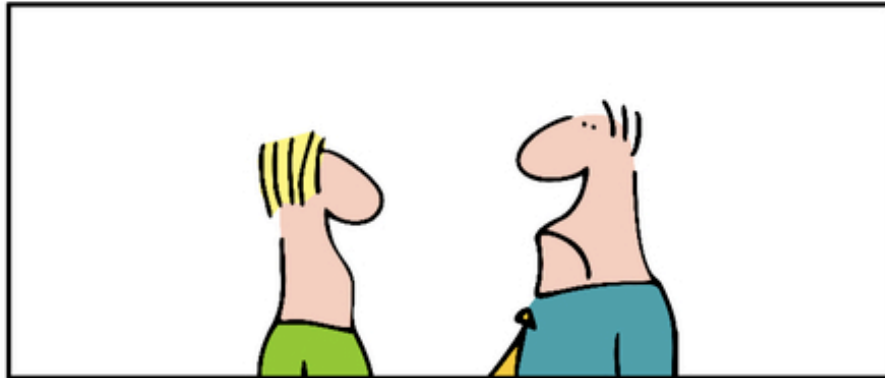
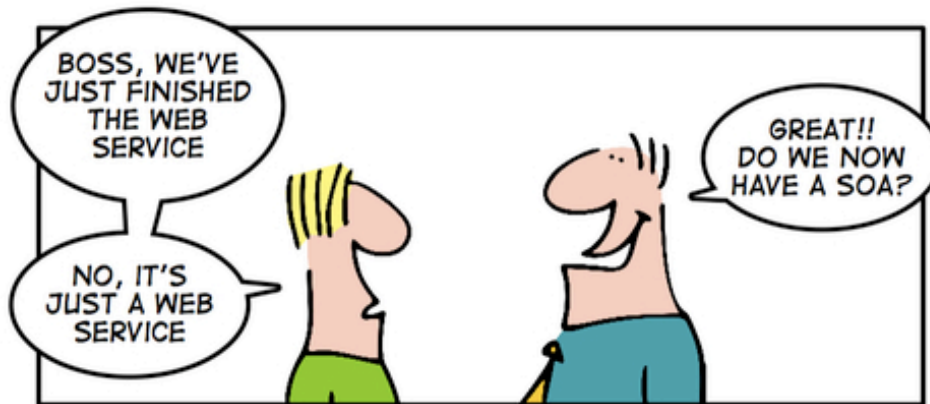
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HOW TO GET A SOA