

Análisis y Diseño II

Características Arquitectónicas

Agenda

- 1 Bienvenida.
- 2 Katas y ejercicio características.
- 3 RAP.
- 4 De características a componentes.
- 5 Pasos siguientes.



Agradezca a alguien o a algo en su clase.

Ejemplo: “**Gracias Sandra por recordarme que había que leer para la clase de hoy**”.



Students, write your response!



KATAS

Y ejercicio de características
arquitectónicas



Students, write your response!

Architecture Characteristics Worksheet

System/Project: _____ Domain: _____

Architect/Team: _____ Date: _____

Candidate Architecture Characteristics

performance	data integrity	deployability
responsiveness	data consistency	testability
availability	adaptability	abstraction
fault tolerance	extensibility	workflow
scalability	interoperability	configurability
elasticity	concurrency	recoverability

others: _____

- a _____
b _____
- a denotes characteristics that are related; some systems only need one of these, other systems may need both

Top 3 Driving Characteristics

- ☐ 1. _____
- ☐ 2. _____
- ☐ 3. _____
- ☐ 4. _____
- ☐ 5. _____
- ☐ 6. _____
- ☐ 7. _____

Instructions

- Identify no more than 7 driving characteristics.
- Pick the top 3 characteristics (in any order).
- Implicit characteristics can become driving characteristics if they are *critical* concerns.
- Add additional characteristics identified that weren't deemed as important as the list of 7 to the *Others Considered* list.

Implicit Characteristics

- feasibility (cost/time) _____
- security _____
- maintainability _____
- observability _____

Others Considered

- _____
- _____
- _____
- _____



iRAT

Clave: componentes





gRAT

Clave: dependencias





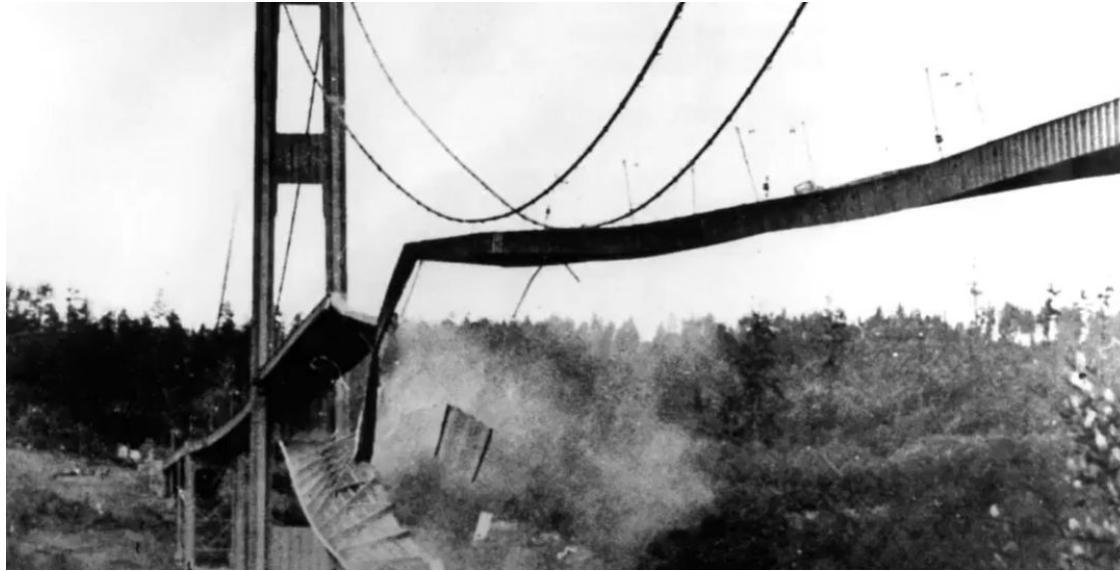
Apelaciones

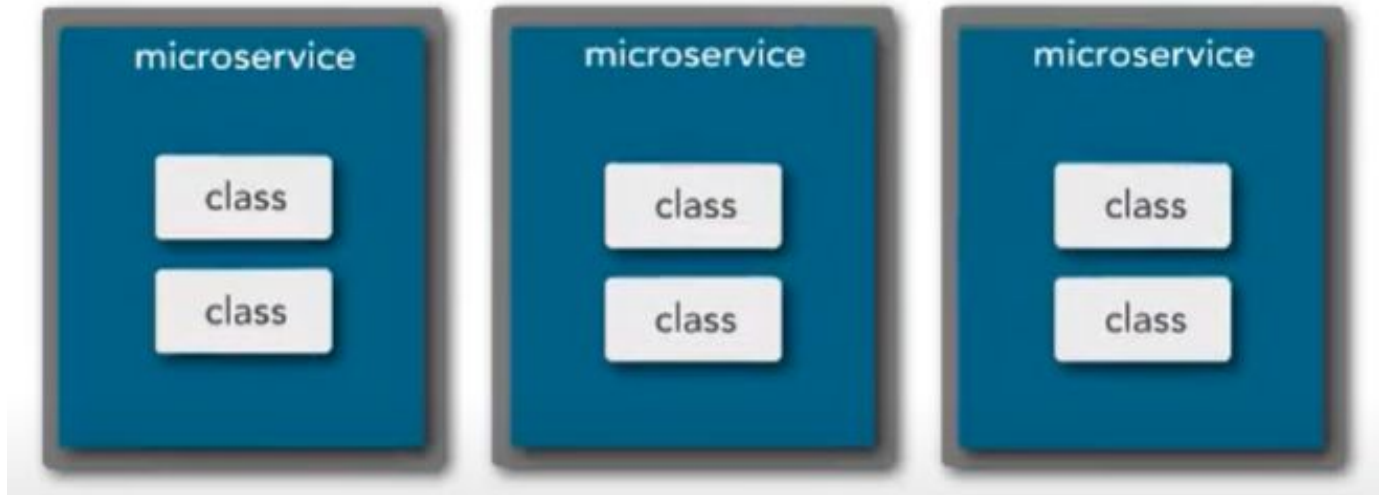


Students, write your response!

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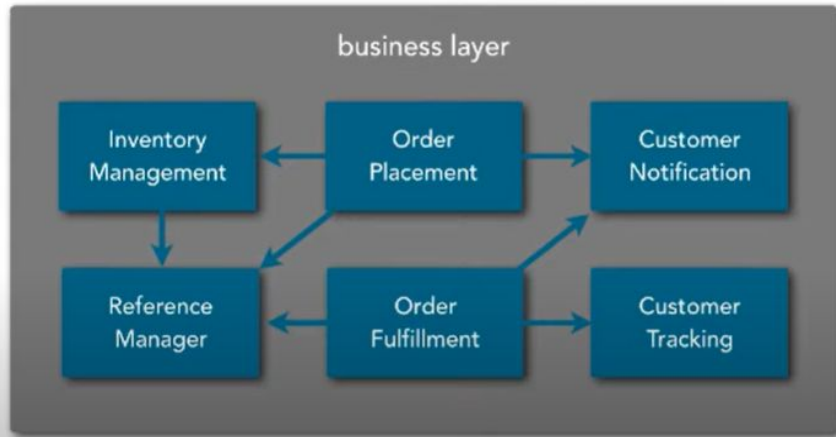




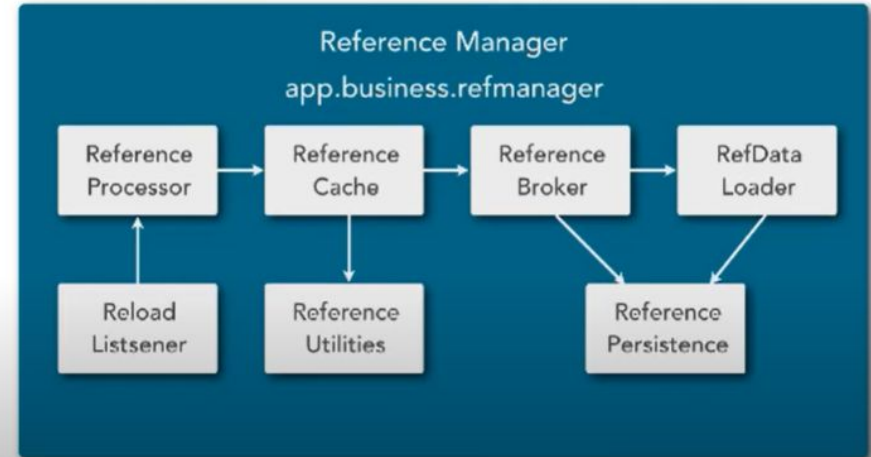


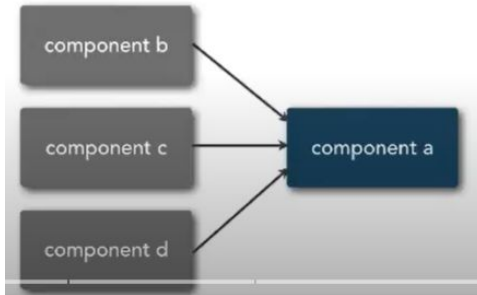


architecture components

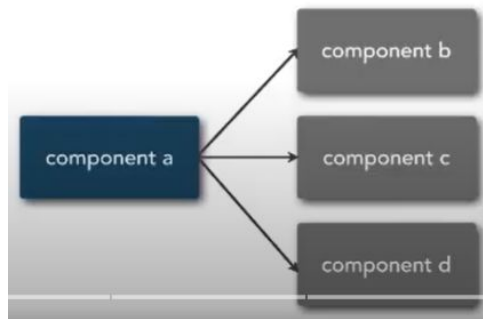


architecture components

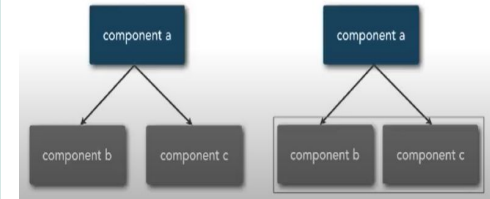




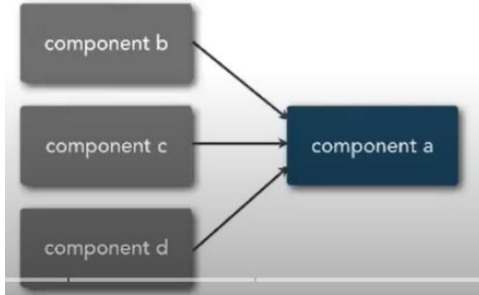
- AFERENTE



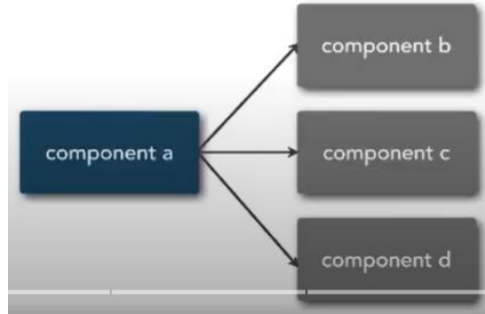
- EFERENTE



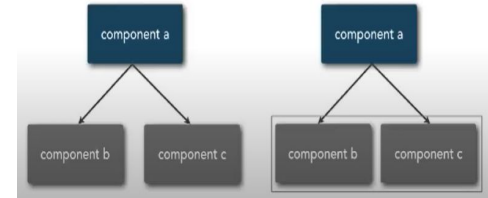
- TEMPORAL



- AFERENTE



- EFERENTE

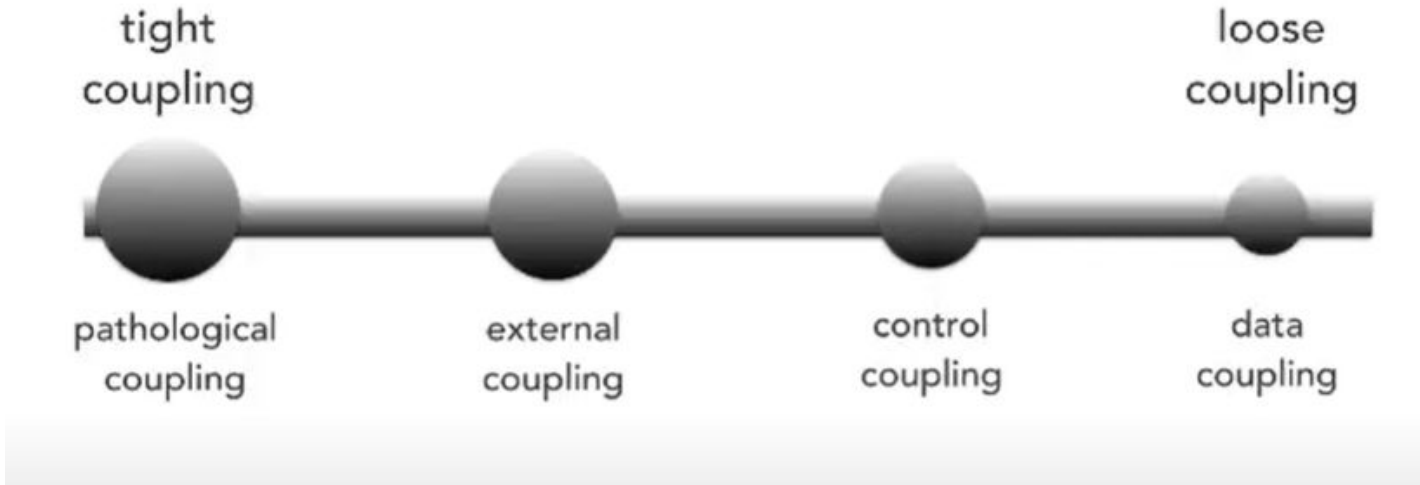


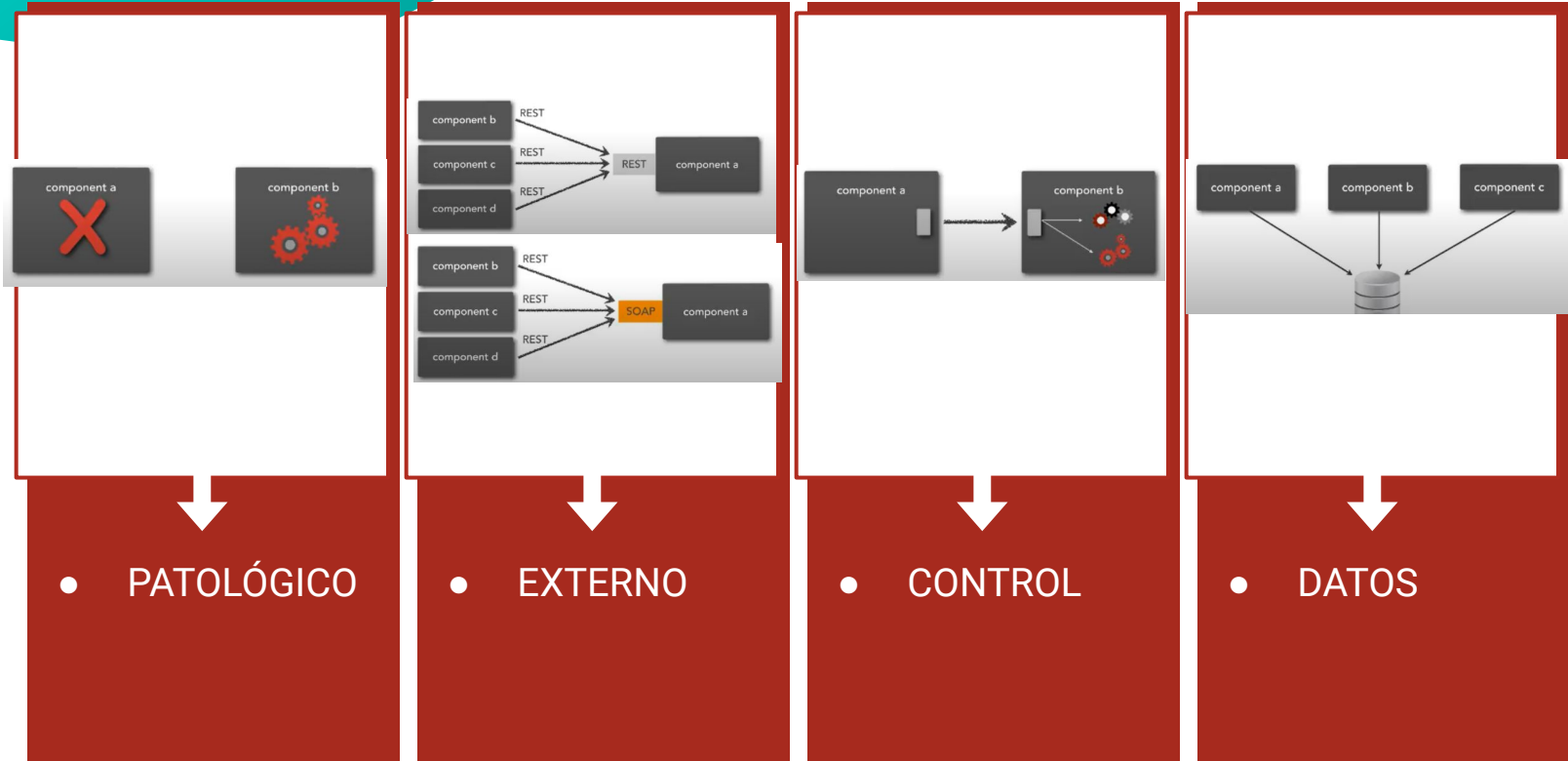
- TEMPORAL





component coupling







Ejercicio

Del negocio a los componentes



Ampliando la arquitectura

Siguiendo con el ejercicio utilizado en Katas, proponga los componentes de la arquitectura, sus relaciones y el tipo de acoplamiento (aferente, eferente y/o temporal).



Students, draw anywhere on this slide!

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Adopta un patrón

Preparación para el laboratorio

De la semana actual, en parejas.

Elegir uno de comportamiento y uno estructural, codificarlo y presentarlo en el laboratorio del viernes 2-junio-2023.



Students browse: refactoring.guru/design-patterns/catalog

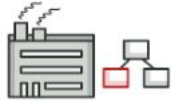
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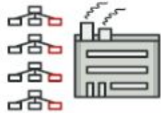
The Catalog of Design Patterns

Creational patterns

These patterns provide various object creation mechanisms, which increase flexibility and reuse of existing code.



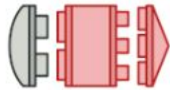
Factory Method



Abstract Factory

Structural patterns

These patterns explain how to assemble objects and classes into larger structures while keeping these structures flexible and efficient.



Adapter



Bridge

Behavioral patterns

These patterns are concerned with algorithms and the assignment of responsibilities between objects.



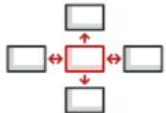
Chain of Responsibility



Command



Iterator



Mediator





Pasos siguientes

Lectura previa.

- ▼ ○ Material de lectura para el 1-junio-2023
 - Estilos arquitectonicos.pdf

Preparación para el laboratorio.
Primer examen parcial: 8-junio-2023.



Pase de salida (1 minuto):
¿Cuál fue el aspecto
más importante de
la clase de hoy?



Students, write your response!



Créditos

