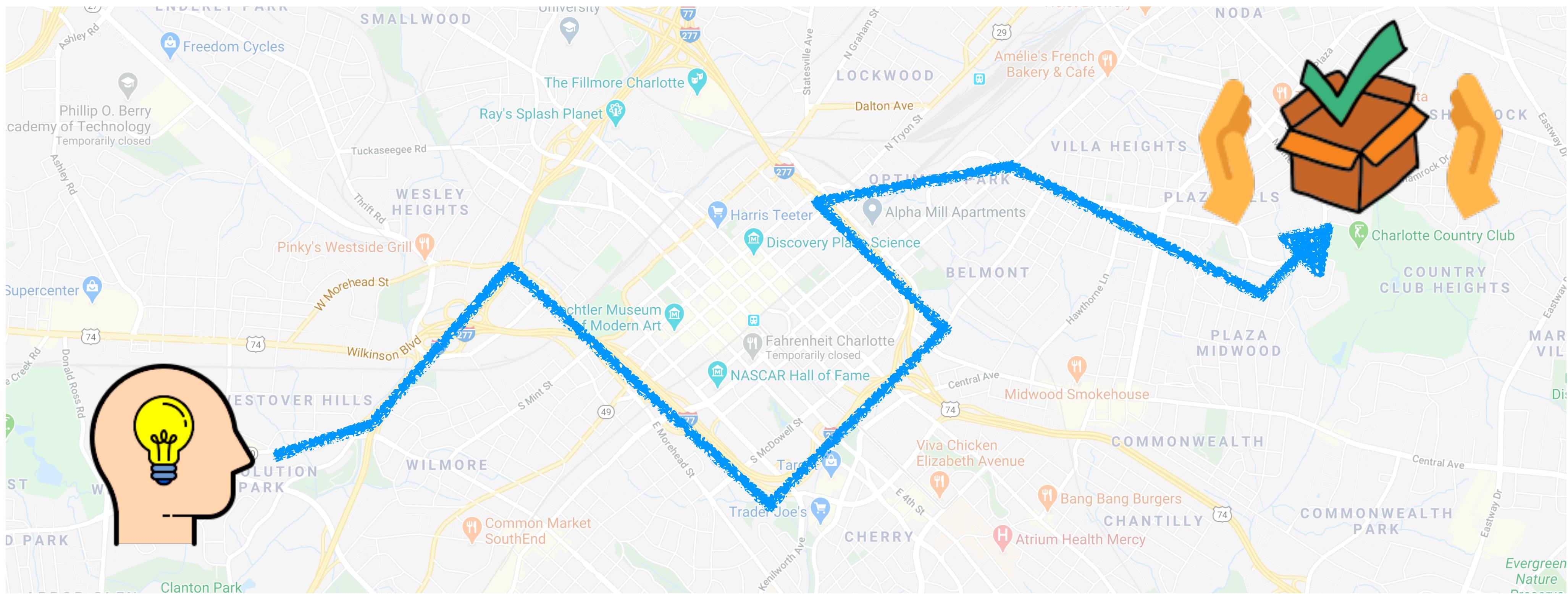


Software Architecture

A story about business value and trade-offs



About me



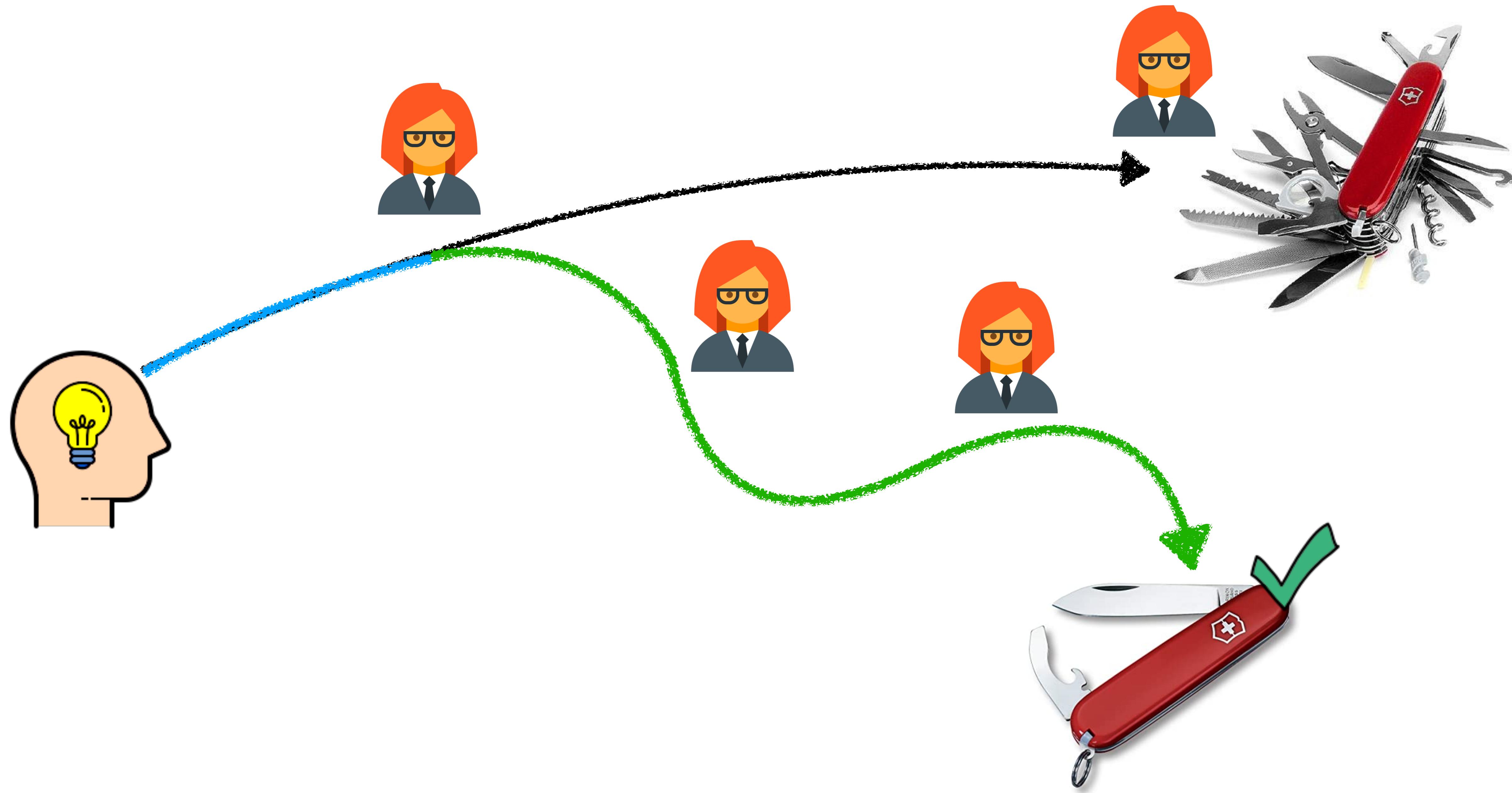
- Senior Software Engineer
- 15 years of experience building, architecting solutions and leading development teams
- Passionate about software development stuff

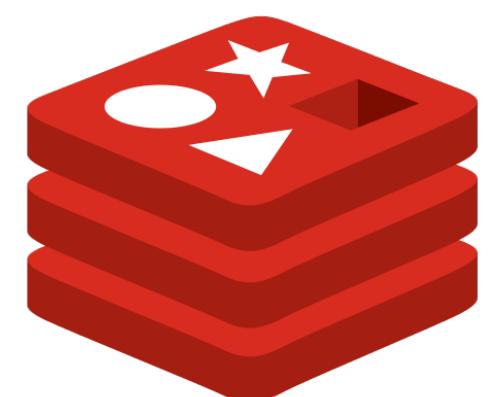


<https://cltjug.org>



Understand what business value means for
your organization





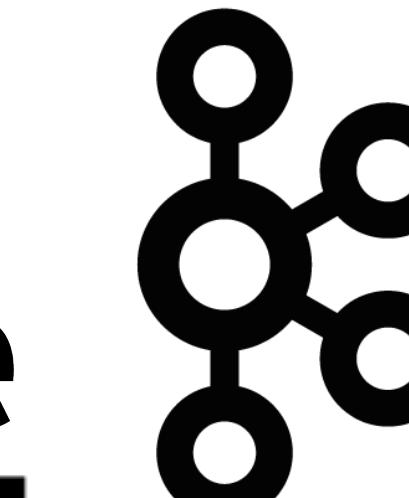
Couchbase



redis

Azure

Jenkins



neo4j

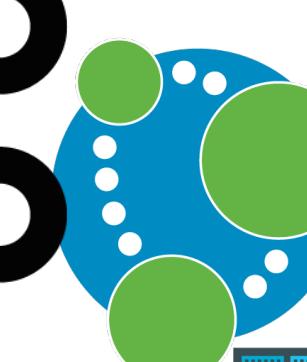


docker

okta



dynatrace

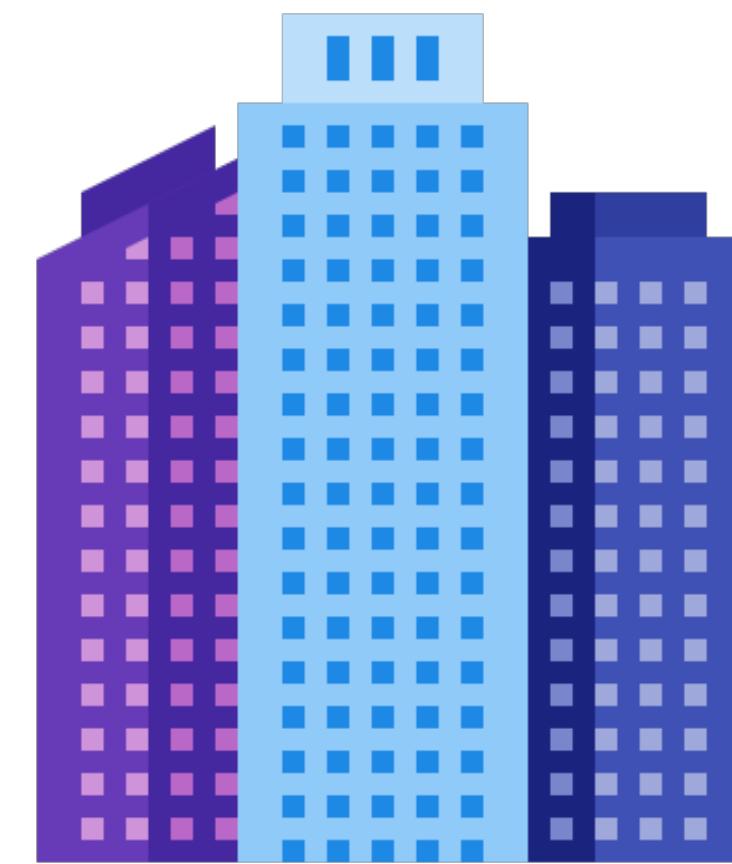


mongoDB

What and Why



Architecture



What and Why

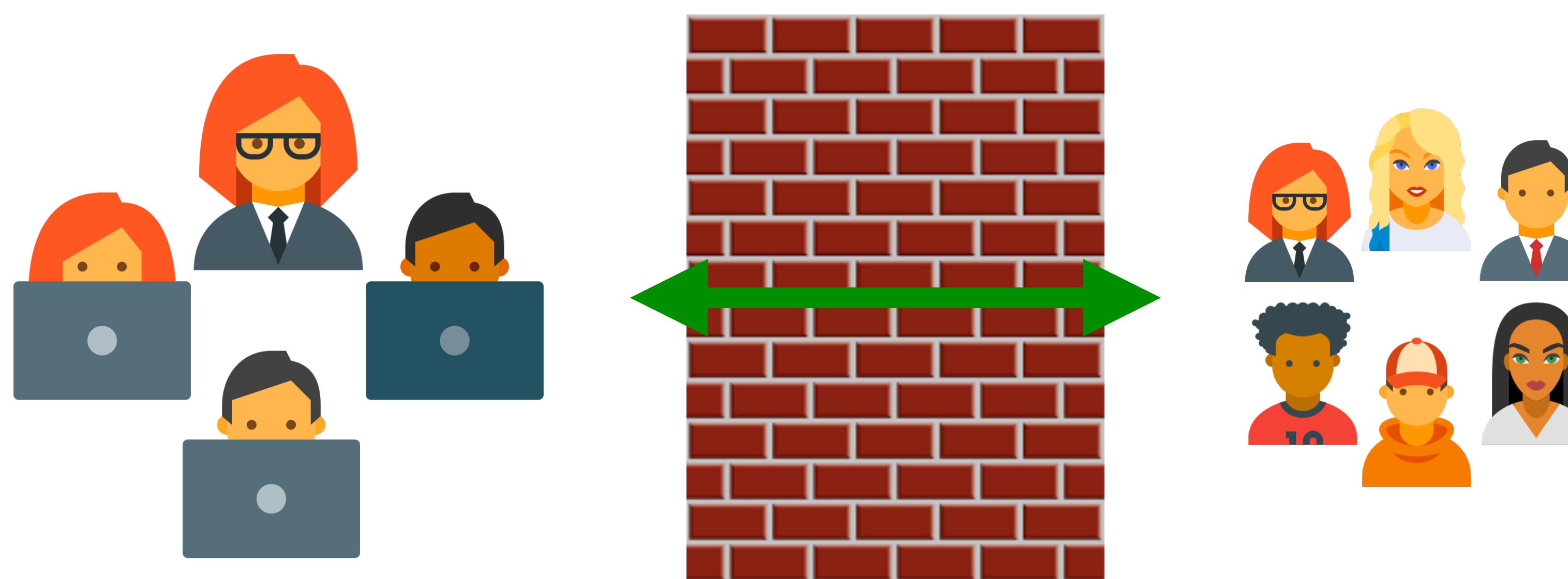


One of the biggest tragedies in the software world is the divorce between business users and technical team.

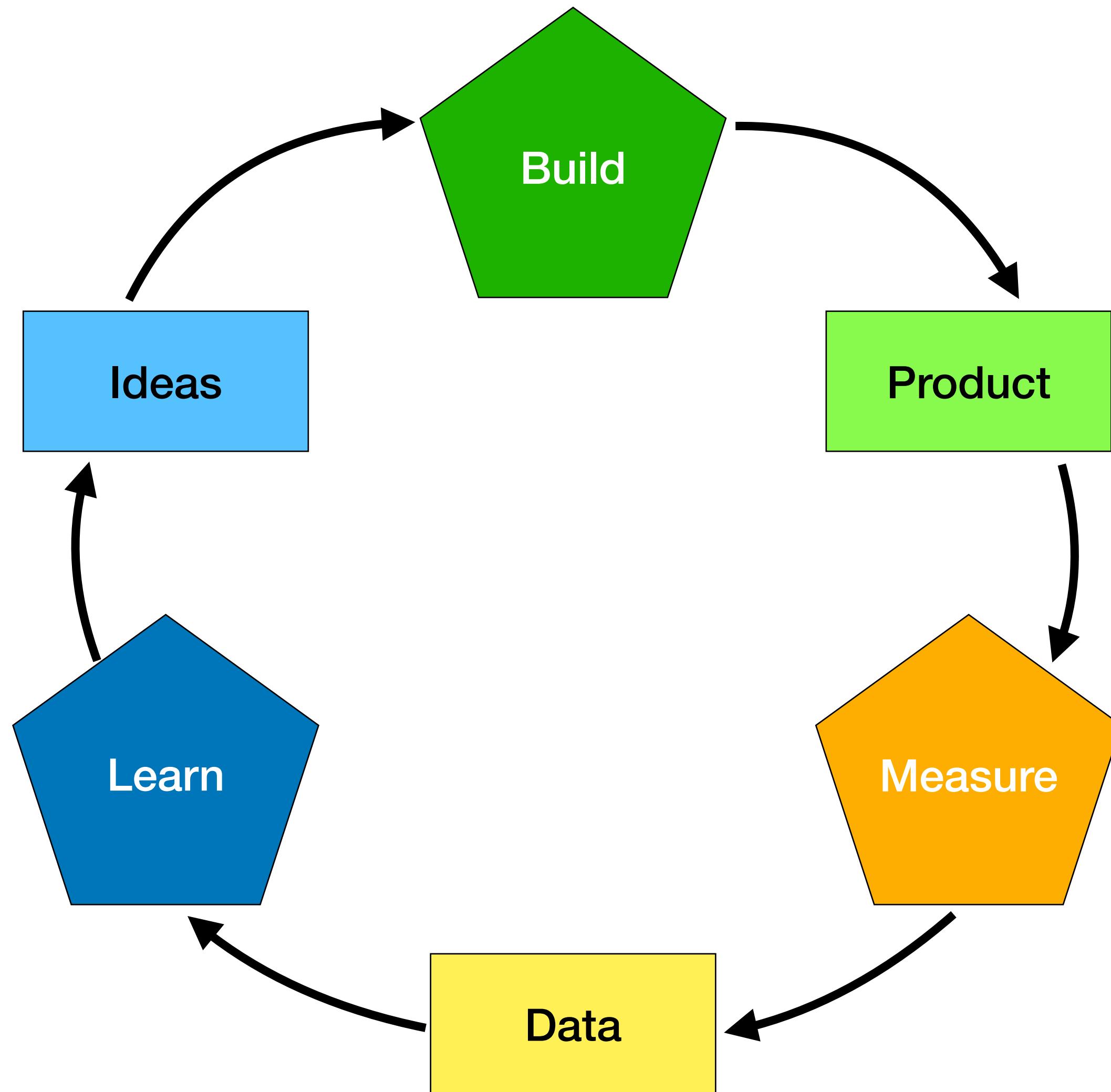
- *Martin Fowler*

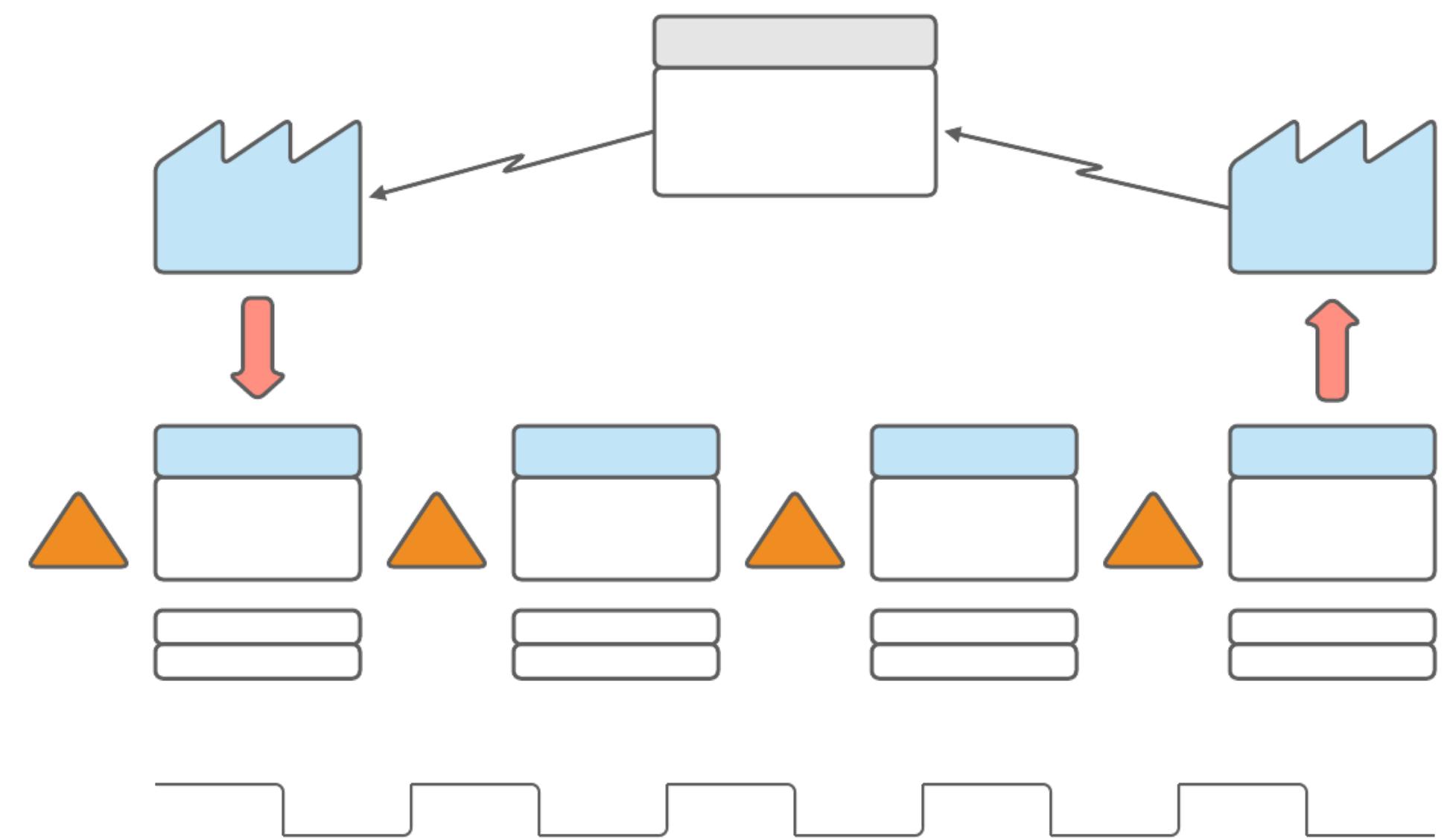


Know your customer

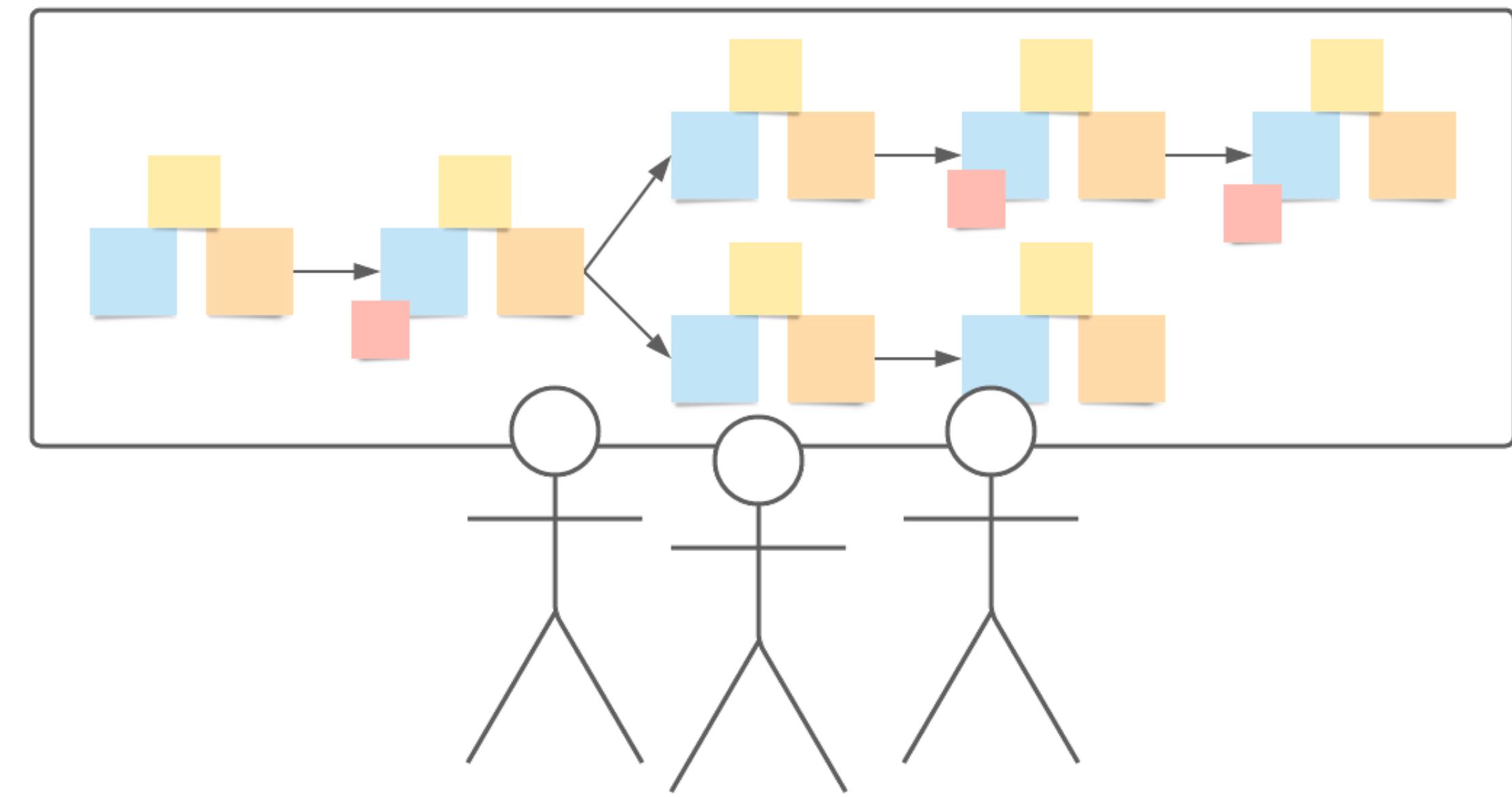


Lean Cycle





Value Stream Mapping

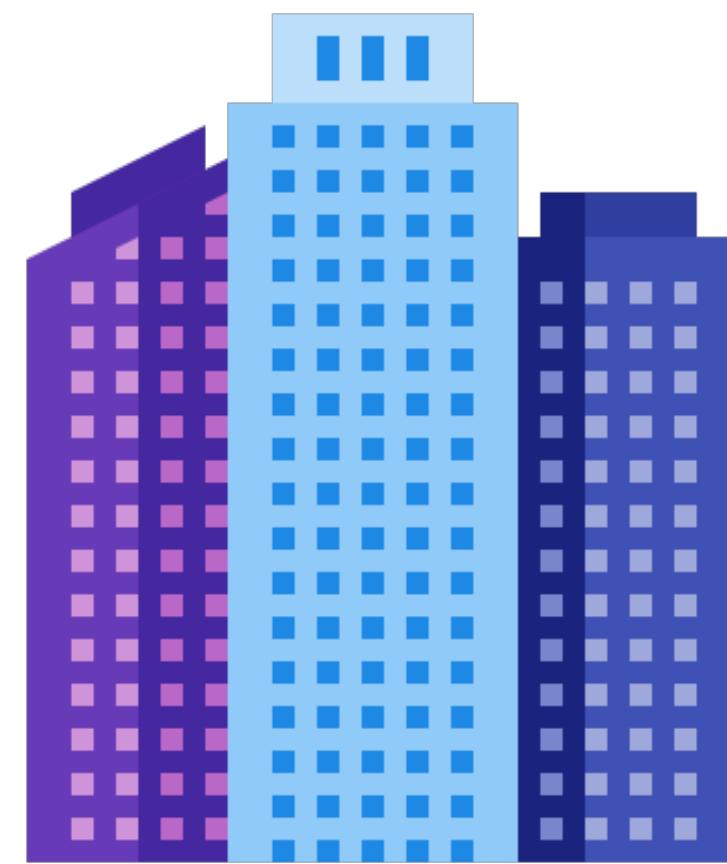


Event Storming

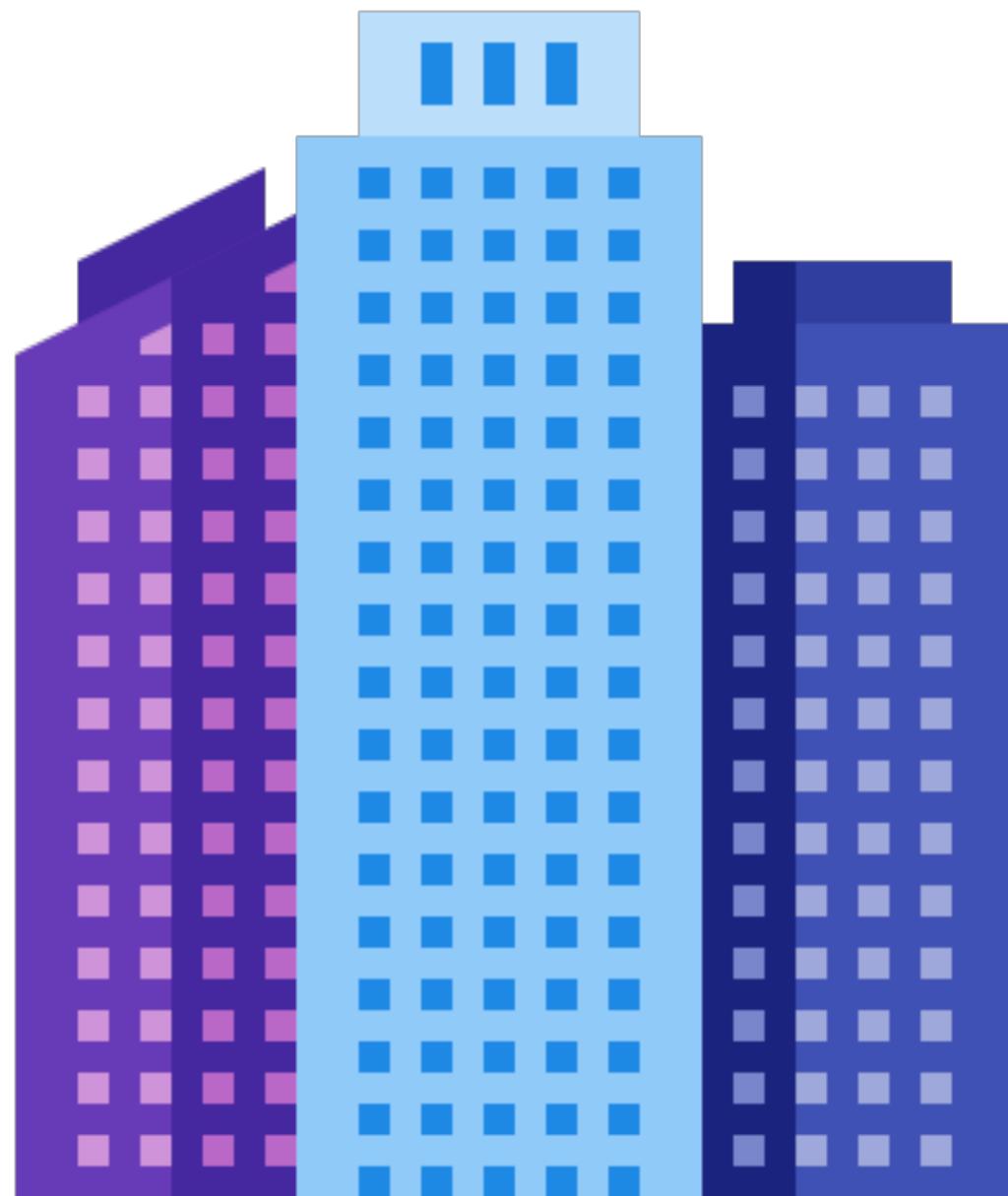
What and Why



Architecture

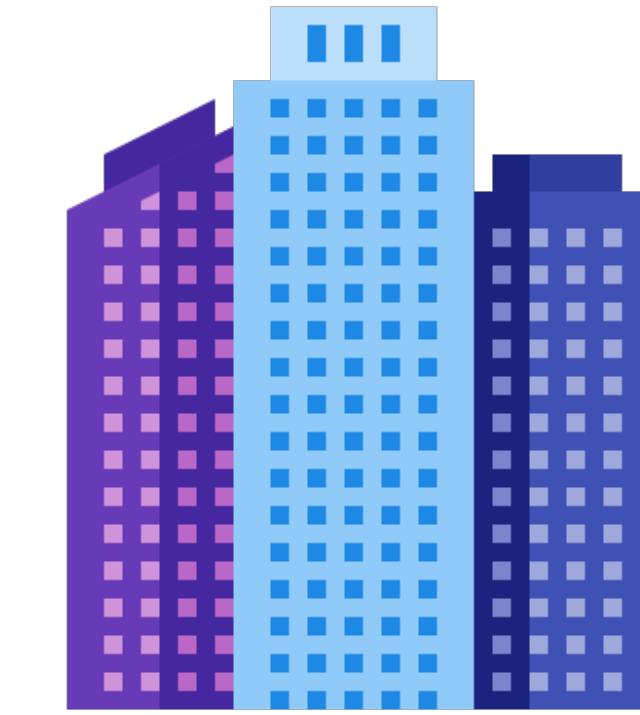


Architecture



Choose an architecture style

- Architecture characteristics
- Domain considerations
- Strategic Goals



Fundamentals of Software Architecture
Neal Ford / Mark Richards

Step 1

Choose Architectural Characteristics



We want to help
bring the joy of
learning to business

Architectural Characteristics

Scalability

Usability

Reliability

Agility

Portability

Durability

Resilience

Traceability

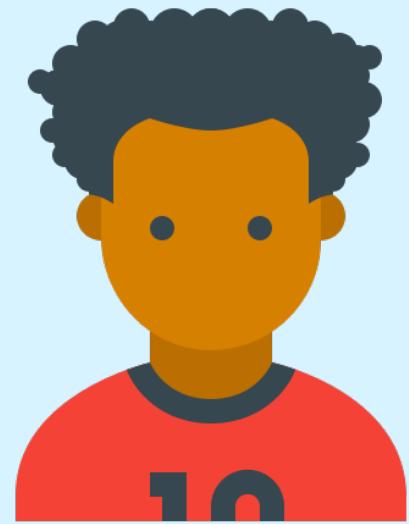
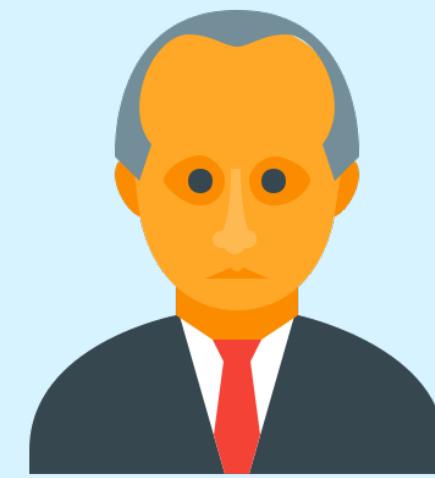
Security

Evolvability

Step 2

Monolithic vs Distributed

Catalog



Monolithic vs Distributed

Catalog

Availability

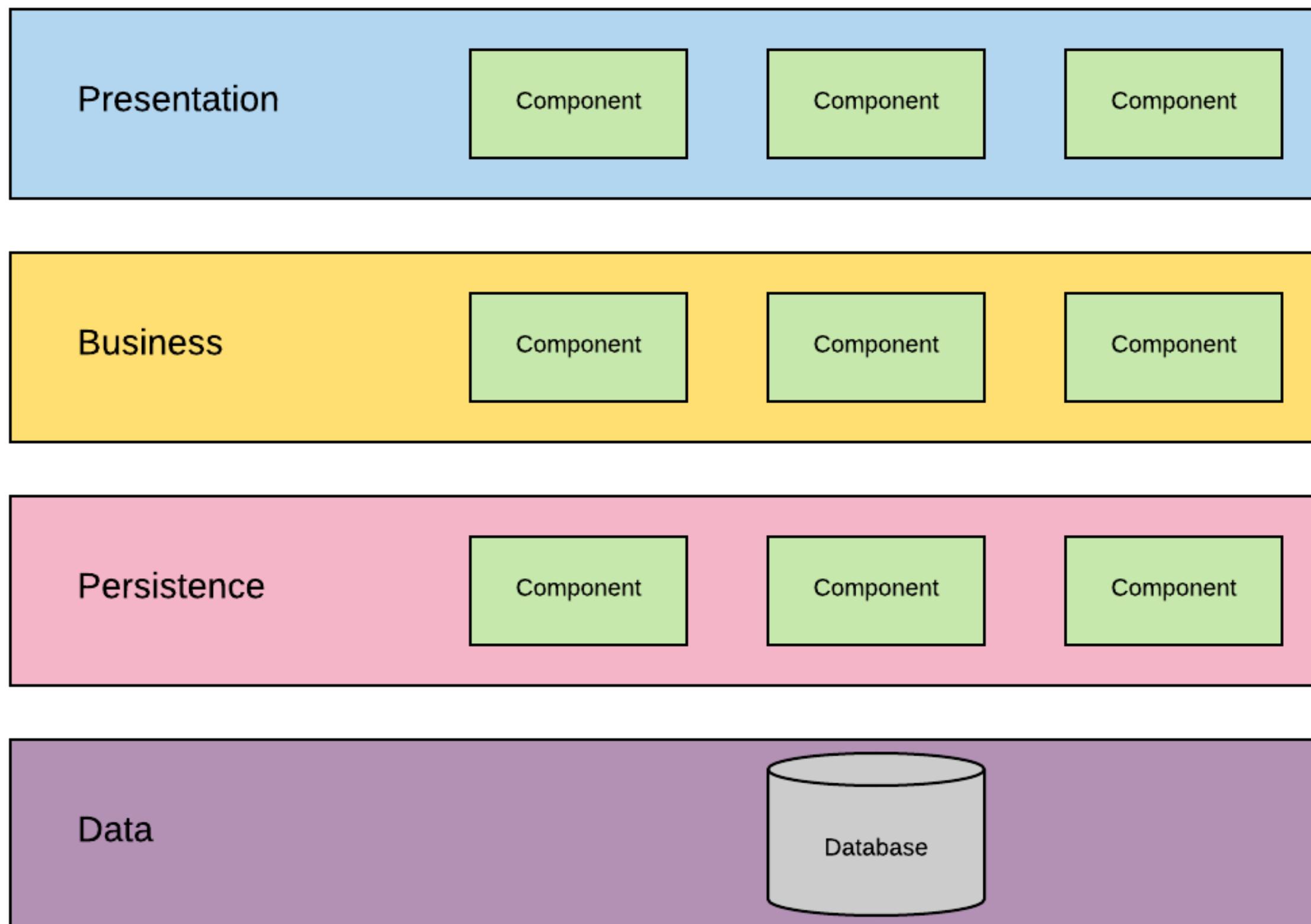
Correctness

Durability

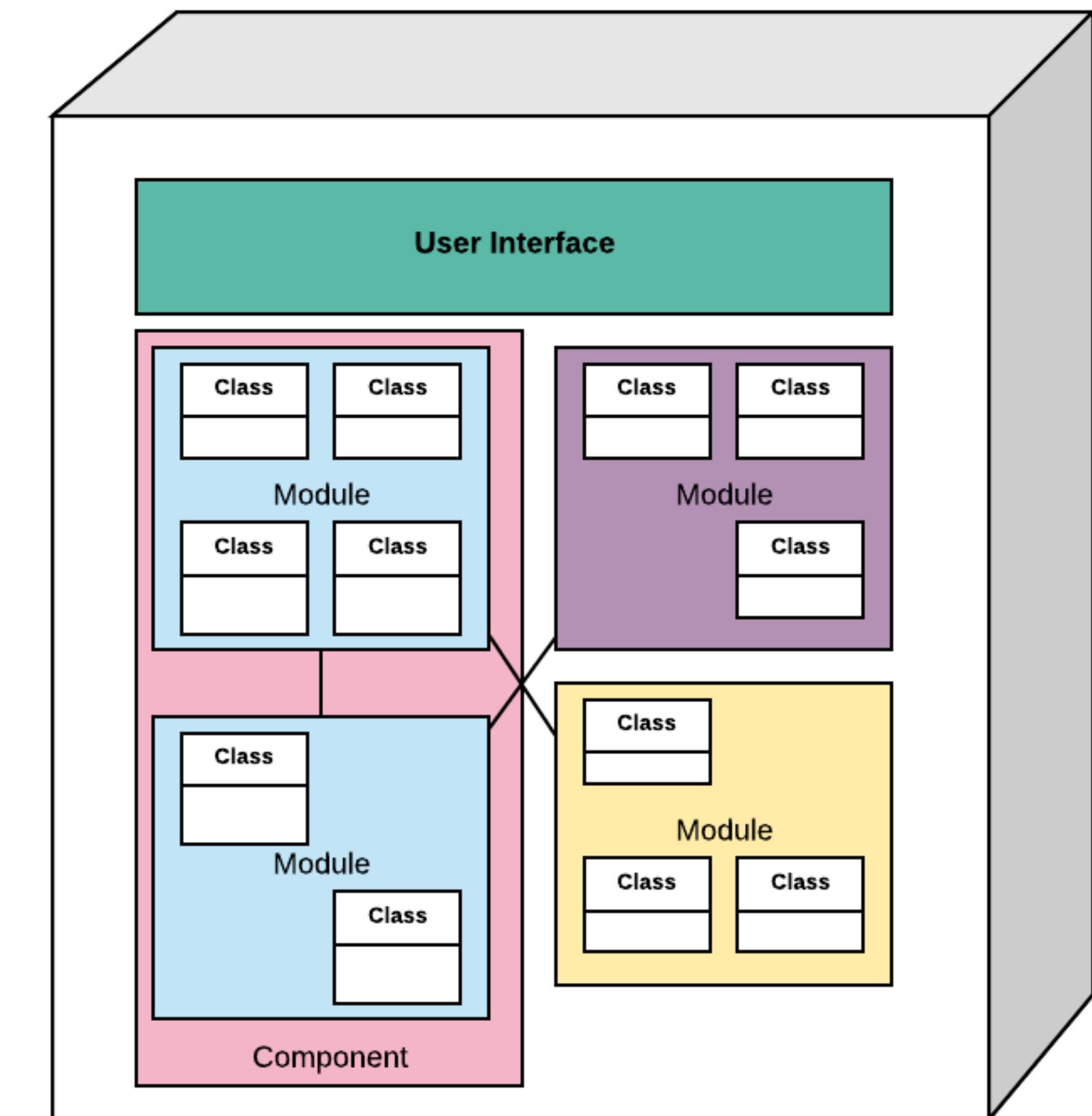


Monolithic Architecture Styles

Layered Architecture



Modular Monolith



Monolithic Architecture Styles

Catalog

Availability

Correctness

Durability

Catalog

User Interface

Accessibility

Simplicity

Usability

Reporting

Accuracy

Integrity

Reliability

Product Catalog

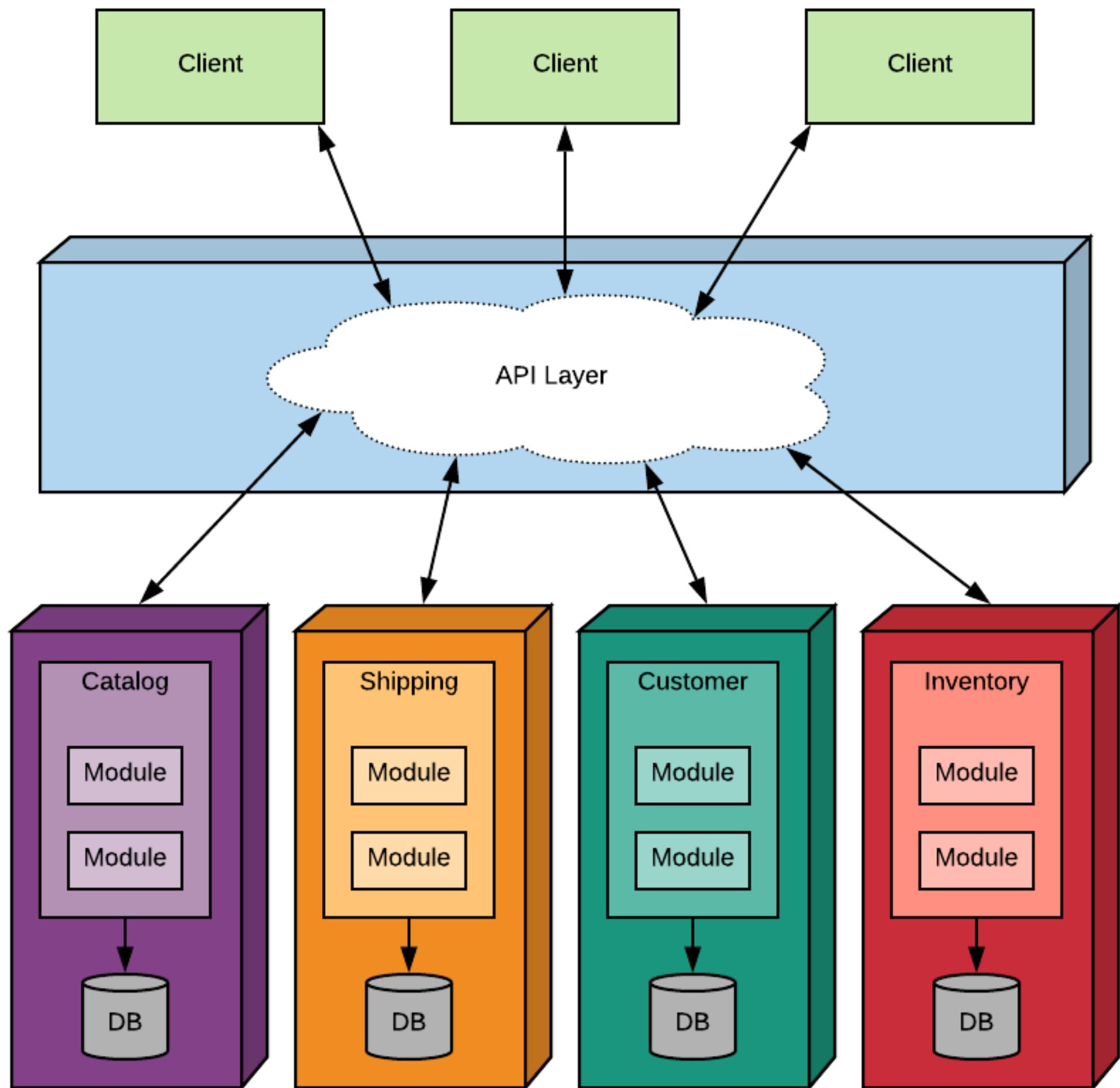
Availability

Correctness

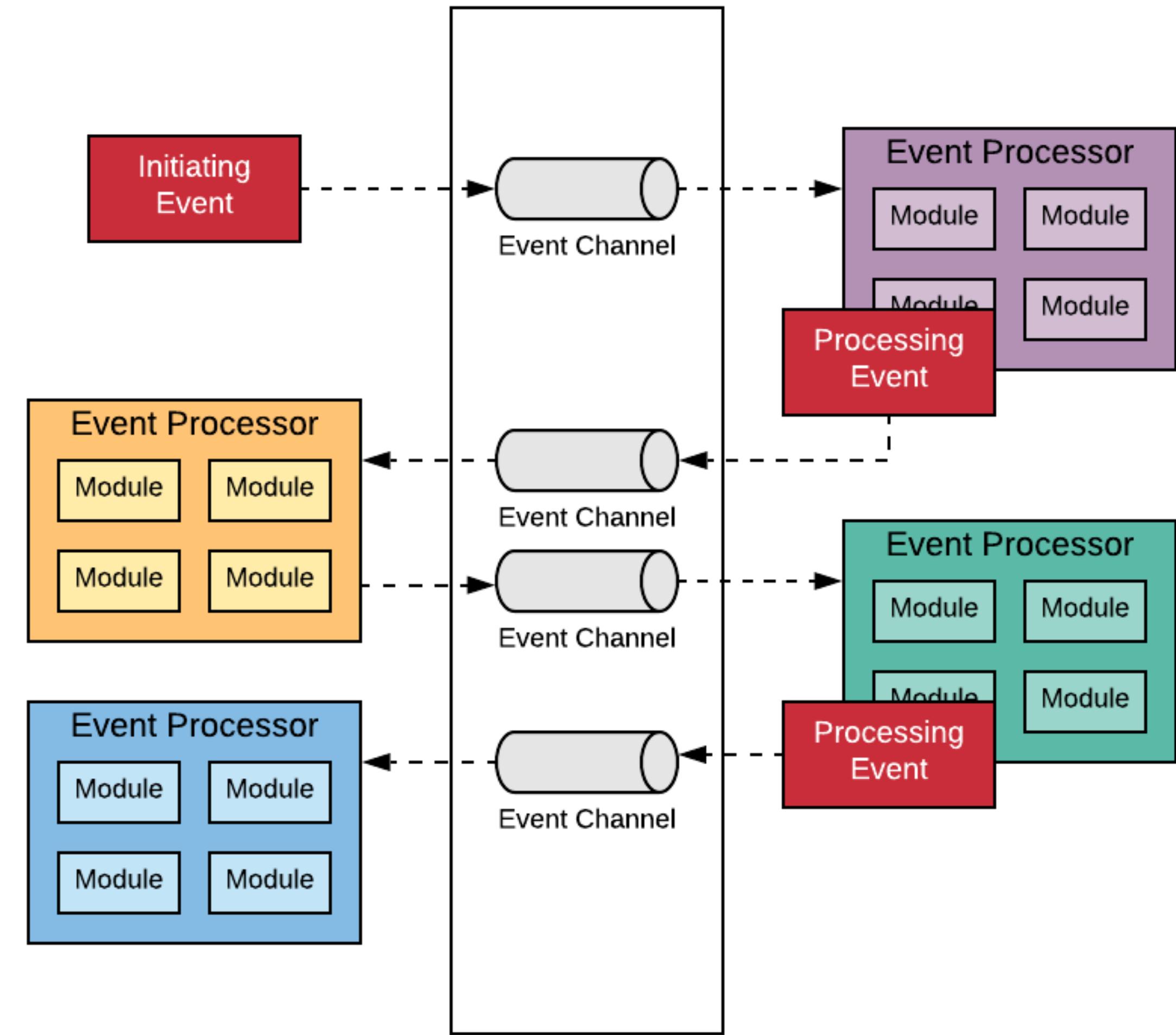
Durability

Distributed Architecture Styles

Microservices Architecture



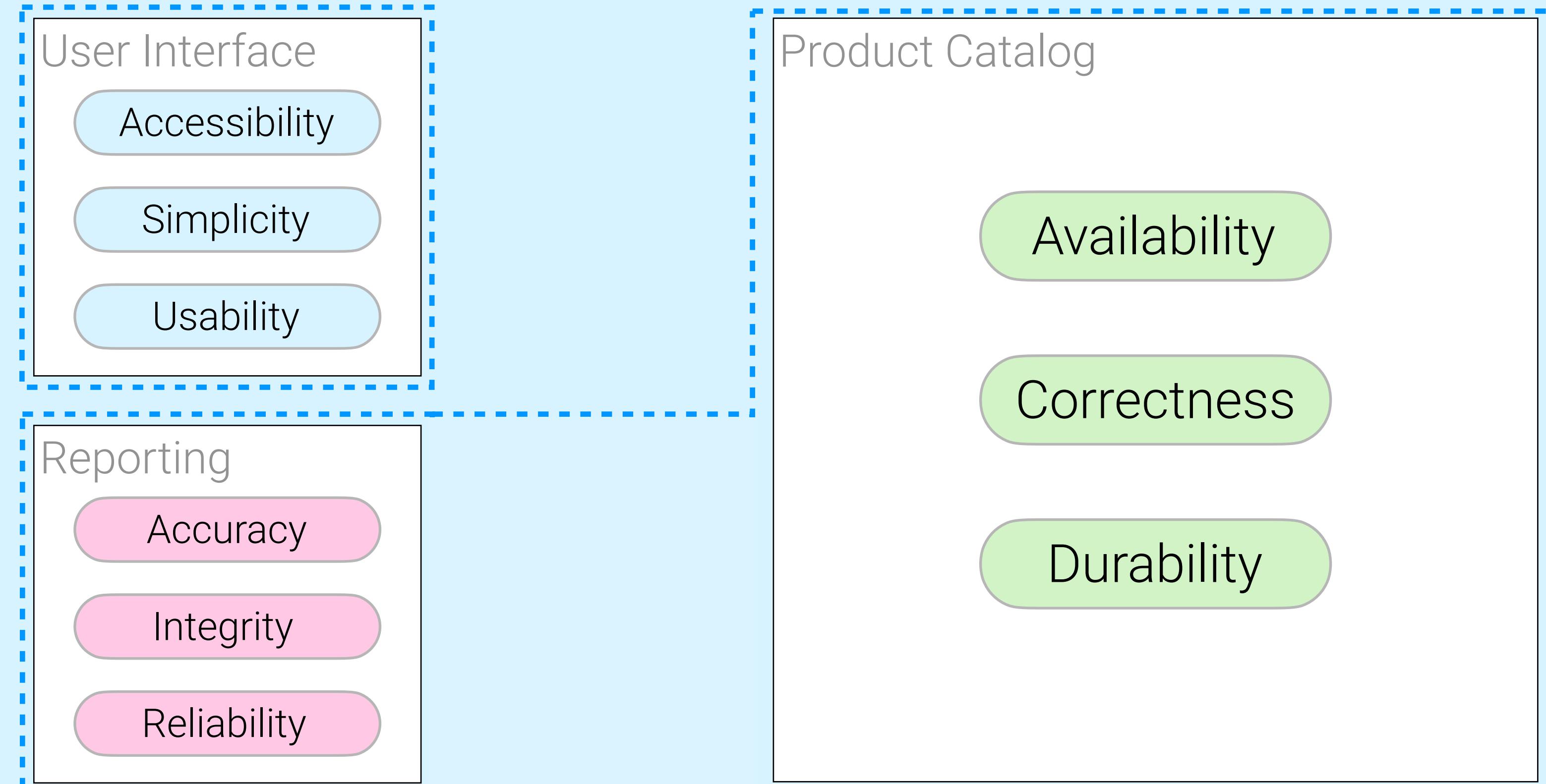
Event-Driven Architecture



Step 3

Determine Architecture Quantum

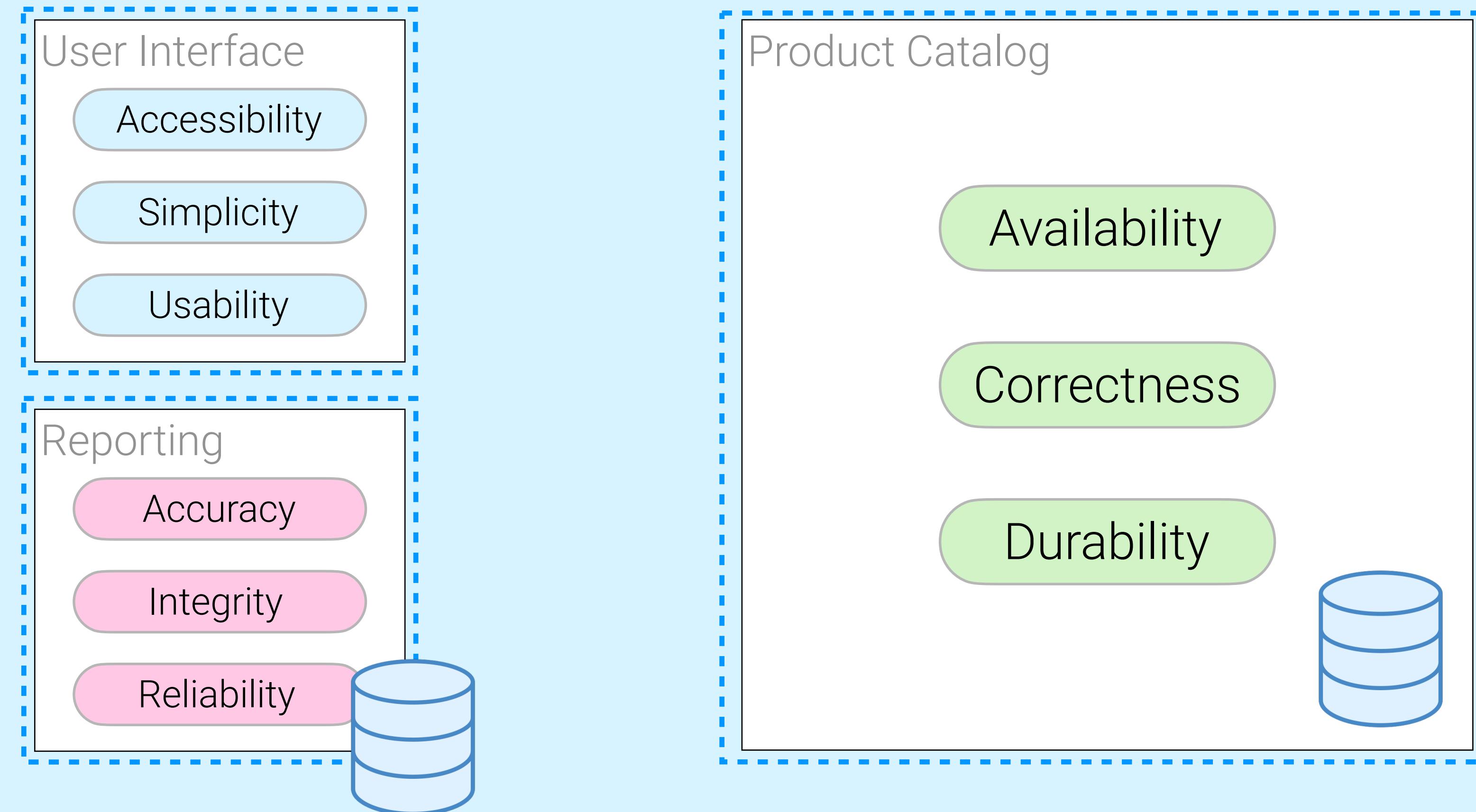
Catalog



Step 4

Determine Persistence

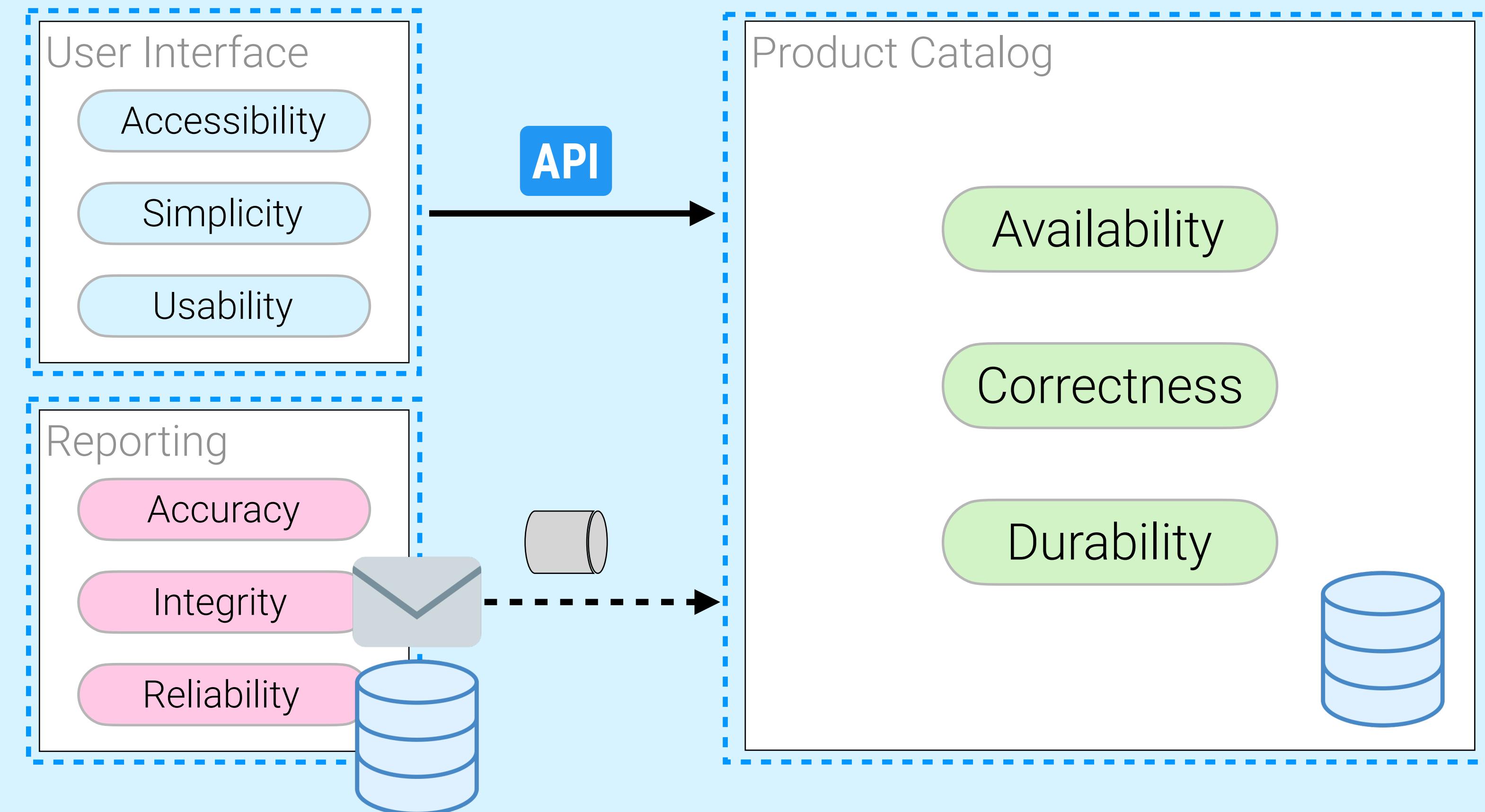
Catalog



Step 5

Determine Communication Style

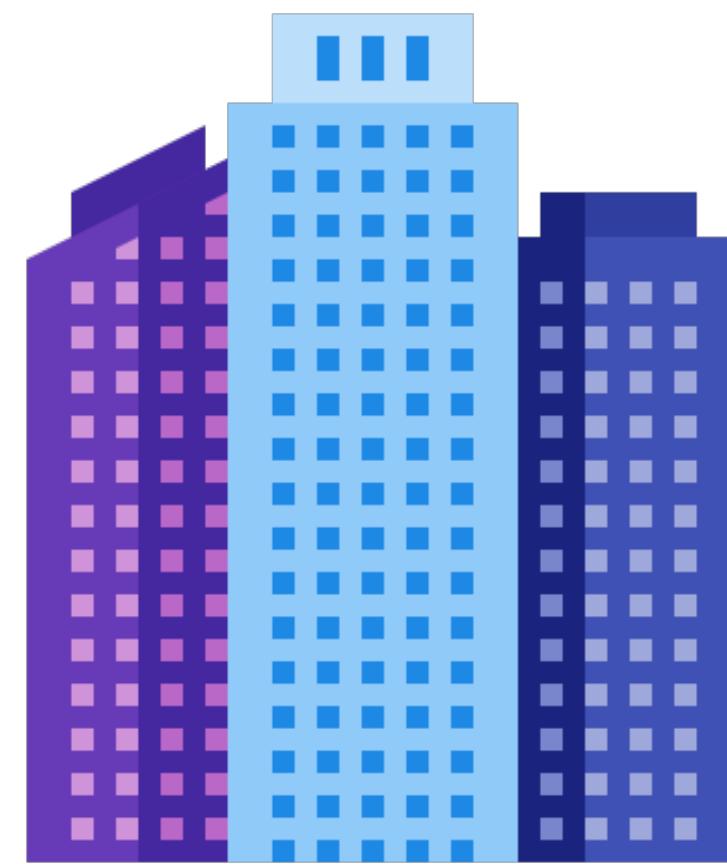
Catalog



What and Why



Architecture



Focus on the problem!

The most important tool is you... figure out what tools makes sense and leverage them to solve the problem

- Kelsey Hightower



References

<https://martinfowler.com/articles/value-architectural-attribute.html>

<https://leanpm.org>

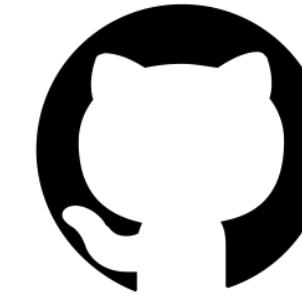
<https://www.eventstorming.com>

<http://fundamentalsofsoftwarearchitecture.com>

Q & A



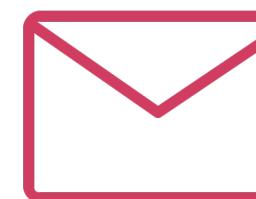
<https://abel.dev>



<https://github.com/abel-fresnillo>



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