Main purposes

- what is the architecture?
- The role of the architect and software lifecycle

Artifacts

- Problem
- Functional requirements
- Non-functional requirements
- Constraints

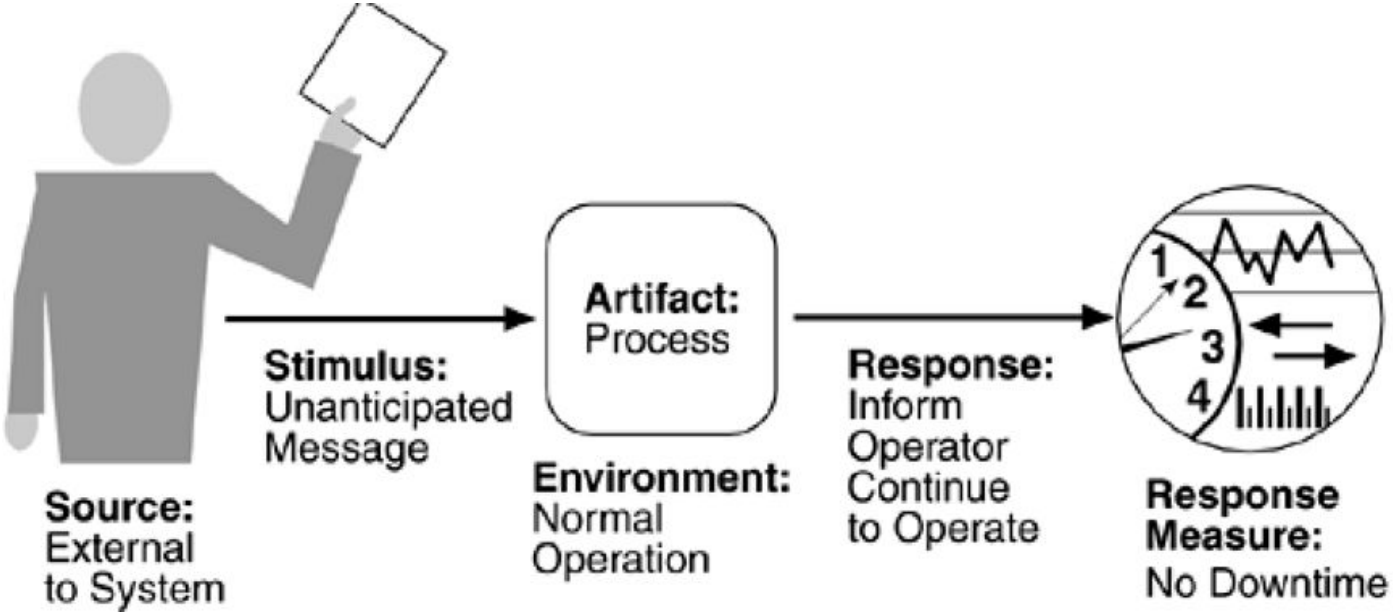
Functional requirements

- User story
- Required is the ability to start, update and complete a transaction in as many different touch points as the consumer wants. The transaction might be paid for at the initial point of creation or paid for only upon completion in the store. A transaction can be touched multiple times in multiple touch points. Even after they have been completed, they can be adjusted and returned. System alerts upstream consumers that a new document is available
- Upstream consumer retrieves document using repository keys without reference to information internal to the document

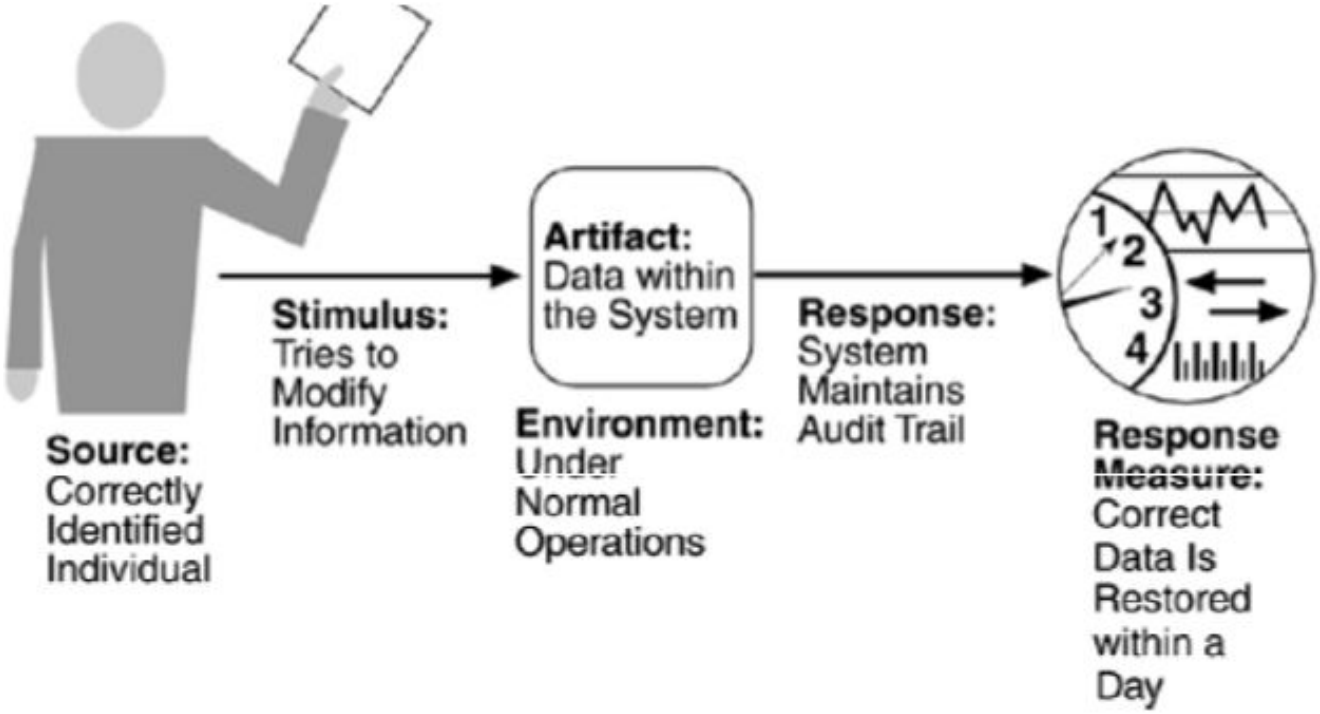
Non-functional requirements

Describes how the system or software should work and what properties or characteristics they should have

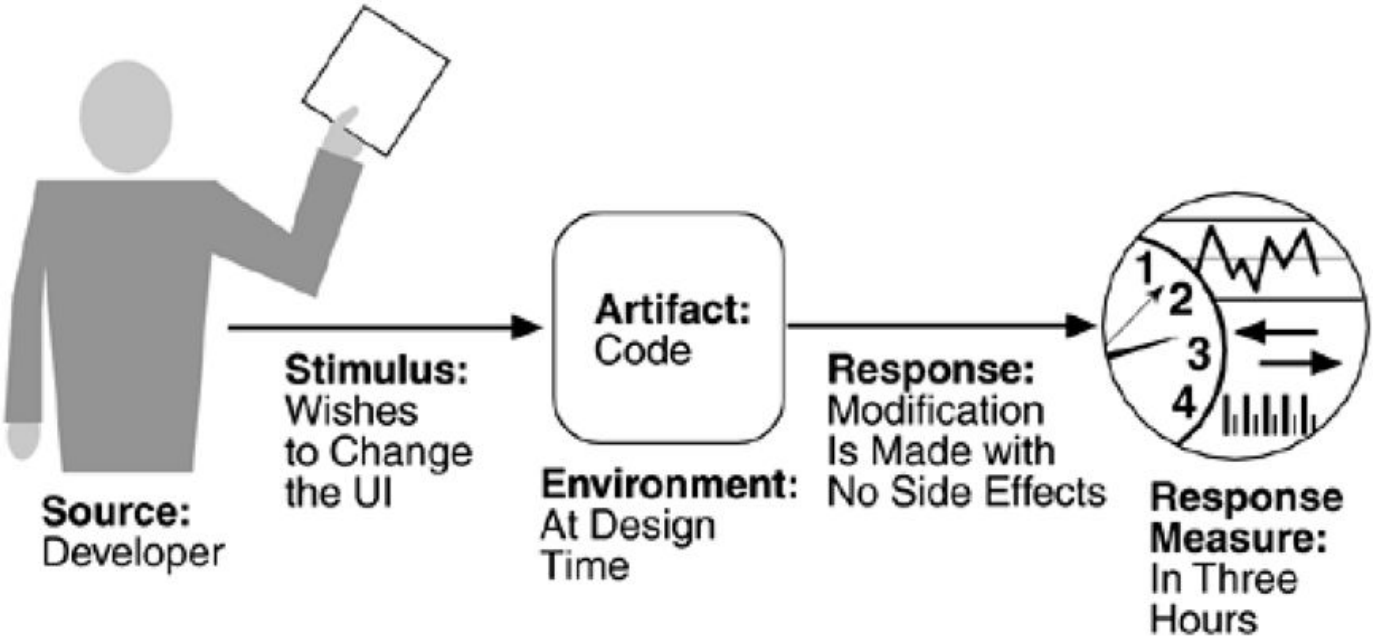
Availability



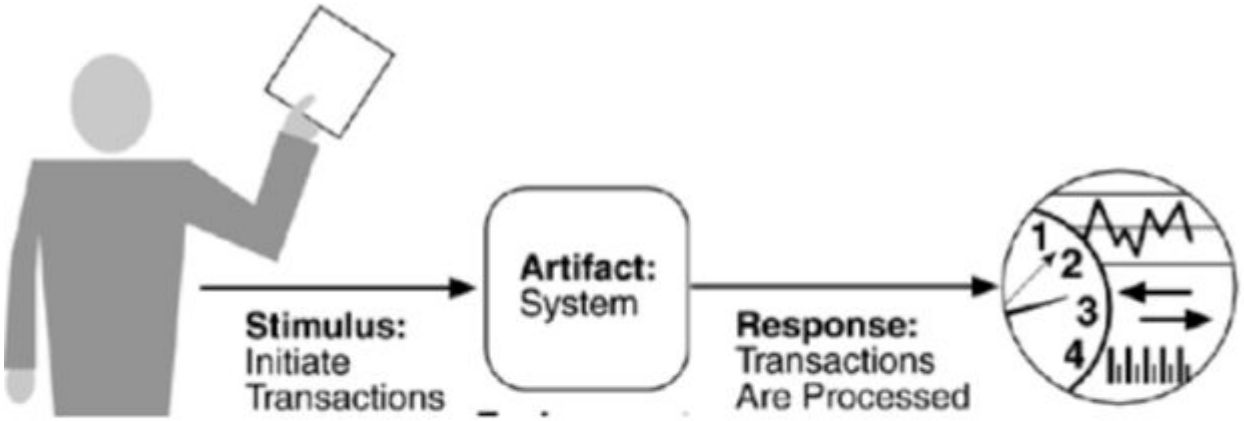
SECURITY


Source:
Correctly
Identified
Individual
Stimulus:
Tries to
Modify
Information
Artifact:
Data within
the System
Environment:
Under
Normal
Operations
Response:
System
Maintains
Audit Trail
1
2
3
4
Response
Measure:
Correct
Data Is
Restored
within a
Day

Modifiability



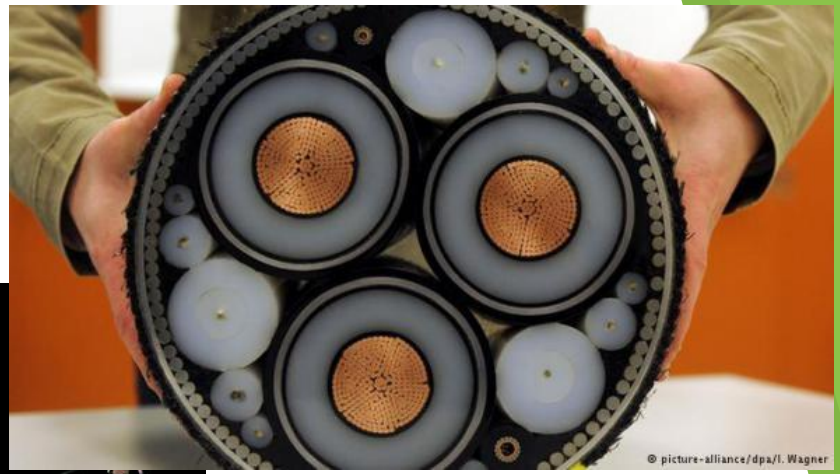
Performance

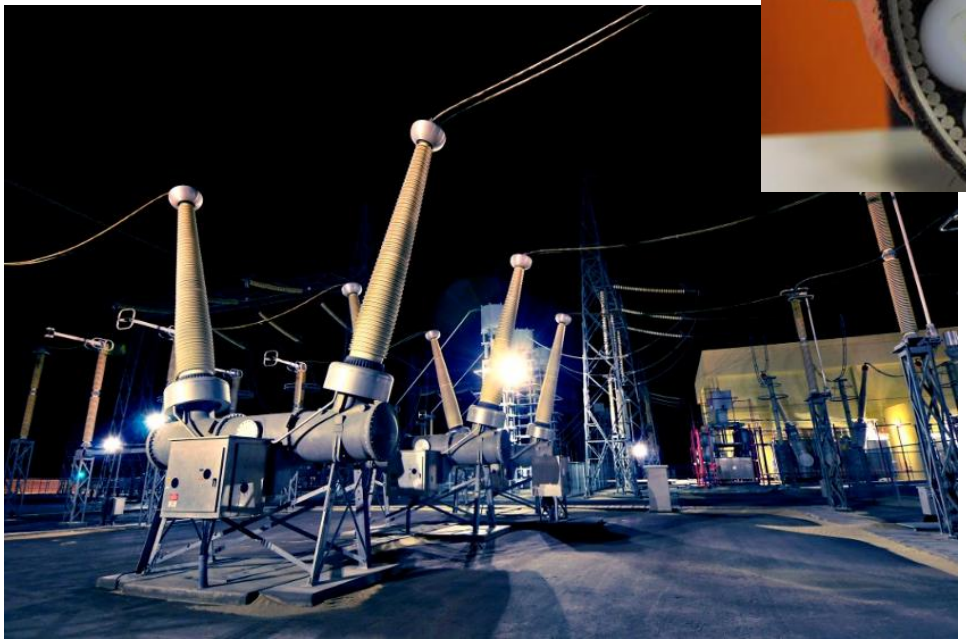


Source:
Users

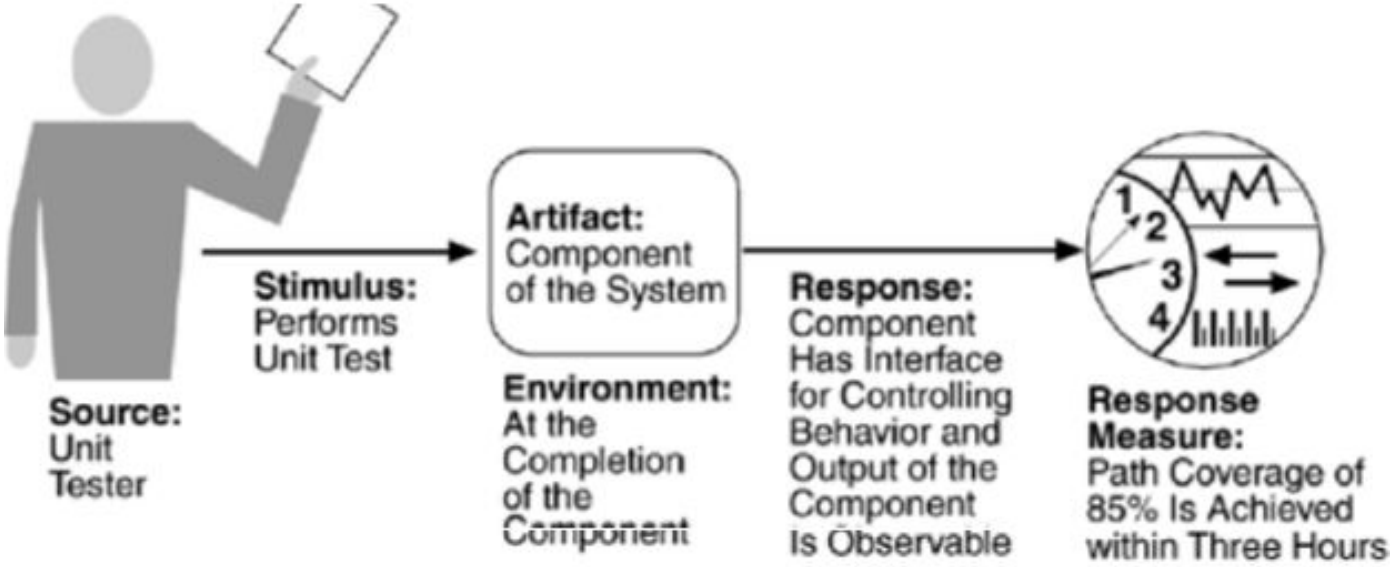
Environment:
Under
Normal
Operations

Response
Measure:
With Average
Latency
of Two
Seconds

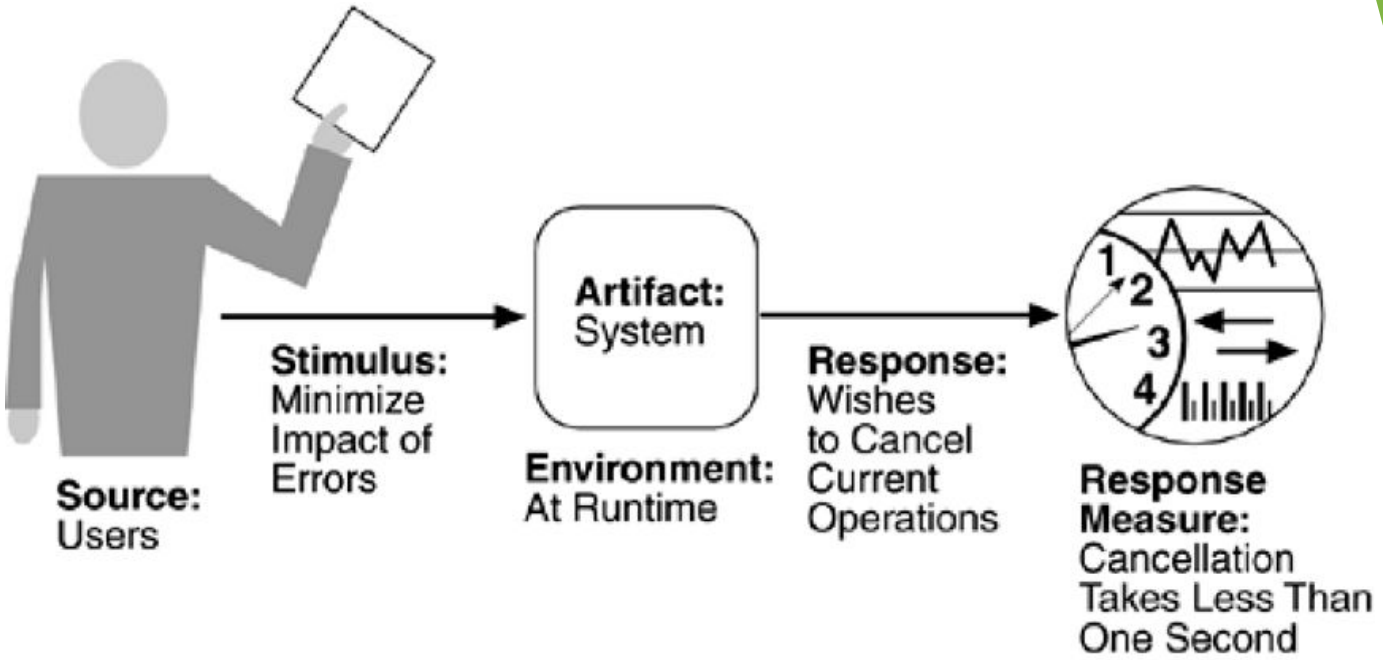

© picture-alliance/dpa/I. Wagner



Testability



Usability


Source:
Users
Stimulus:
Minimize
Impact of
Errors
Artifact:
System
Environment:
At Runtime
Response:
Wishes
to Cancel
Current
Operations
1
2
3
4
Response
Measure:
Cancellation
Takes Less Than
One Second

And

- *Scalability*
- *Portability*
- *Interoperability*
- *Maintainability*

Science Times

NE D1

TUESDAY, DECEMBER 15, 1998

The New York Times

When Nature Discovers The Same Design Over and Over

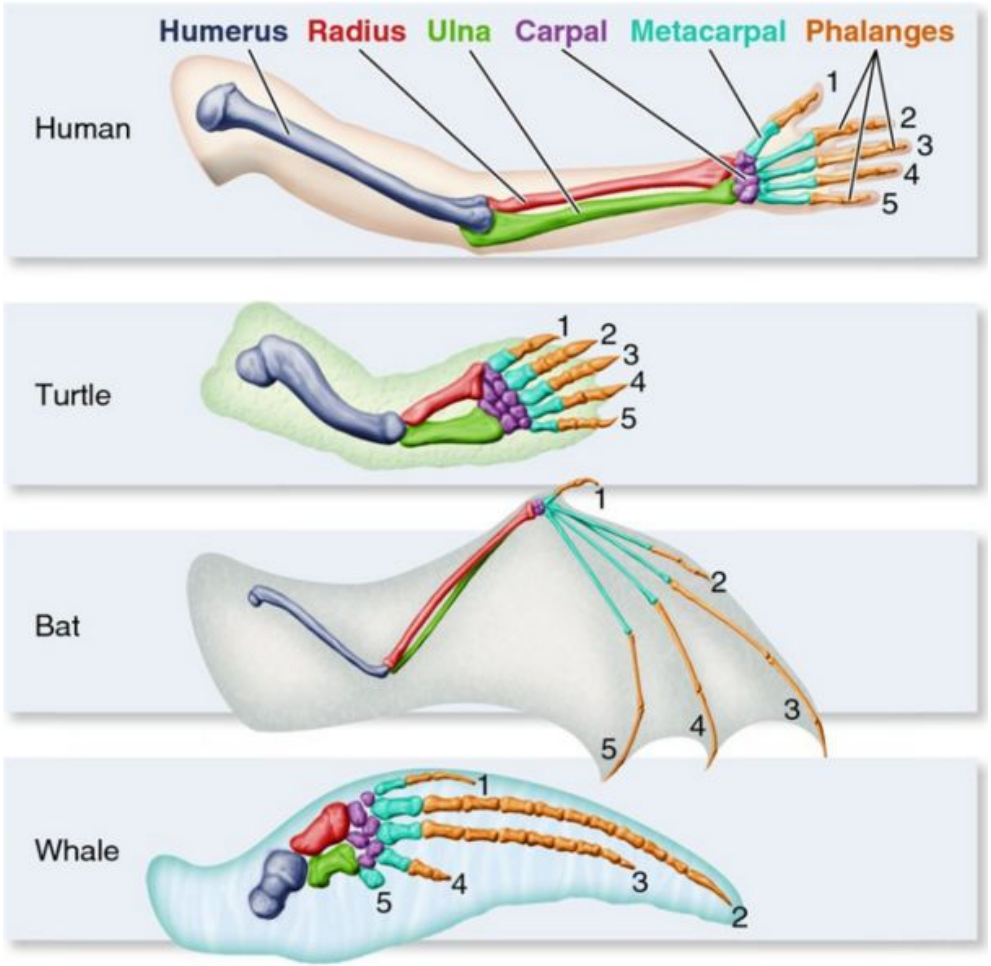
Lookalike Creatures Spark Evolutionary Debate

Nature's Many Paths To One Goal

Even in the animal kingdom form follows function, causing members of different species to adapt in similar fashions in order to prosper in similar environments. This concept, referred to as convergent evolution, can be seen in the following examples.

Taking Flight

To take to the air, three very different species lightened bones and transformed hands into wings.


Humerus
Radius
Ulna
Carpal
Metacarpal
Phalanges
Human
1
2
3
4
5
Turtle
1
2
3
4
5
Bat
1
2
3
4
5
Whale
1
2
3
4
5

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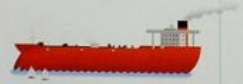
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Constraints

- *Technology*
- *Environment*
- *Cost*
- *Time*
- *People*
- *Processes*

Thanks