

```
<xs:complexType name="CategoryType">
   <xs:element name="description" type="xs:string" />
```

Software System Architectures (NSWI130)

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Usability is concerned with how easy it is for the user to accomplish a desired task and the kind of user support the system provides.



Learning system features





- Learning system features
- Using a system efficiently





- Learning system features
- Using a system efficiently
- Minimizing the impact of errors





- Learning system features
- Using a system efficiently
- Minimizing the impact of errors
- Adapting the system to user needs



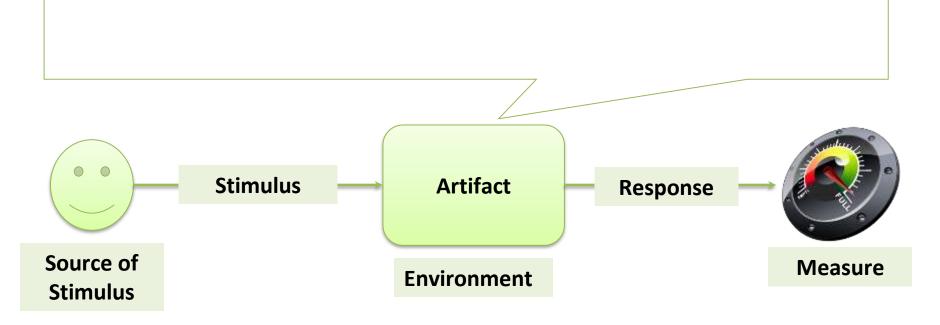


- Learning system features
- Using a system efficiently
- Minimizing the impact of errors
- Adapting the system to user needs
- Increasing confidence and satisfaction

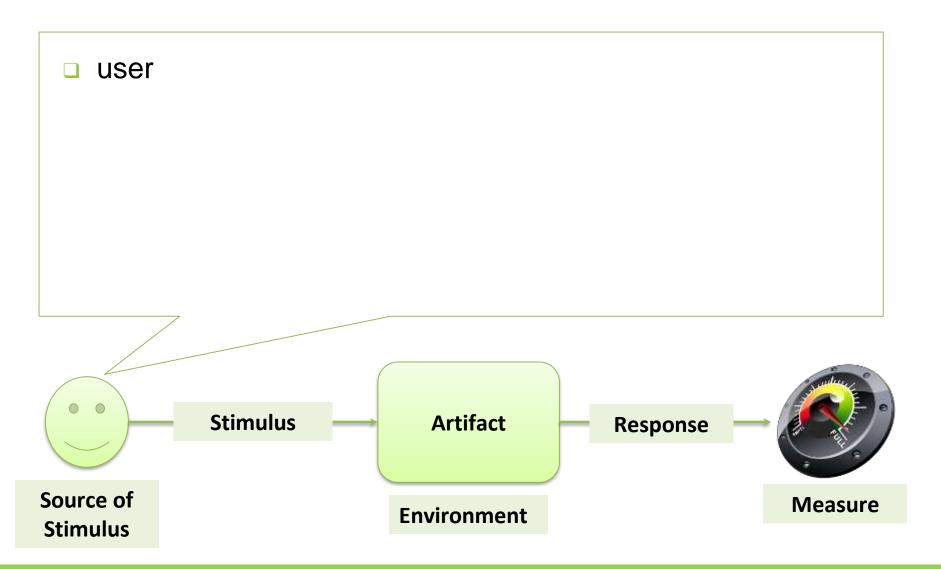




system, its component or feature the user is interacting with









Measure

Modifiability Requirement Scenario

the user uses or learns to use the system **Stimulus Artifact** Response

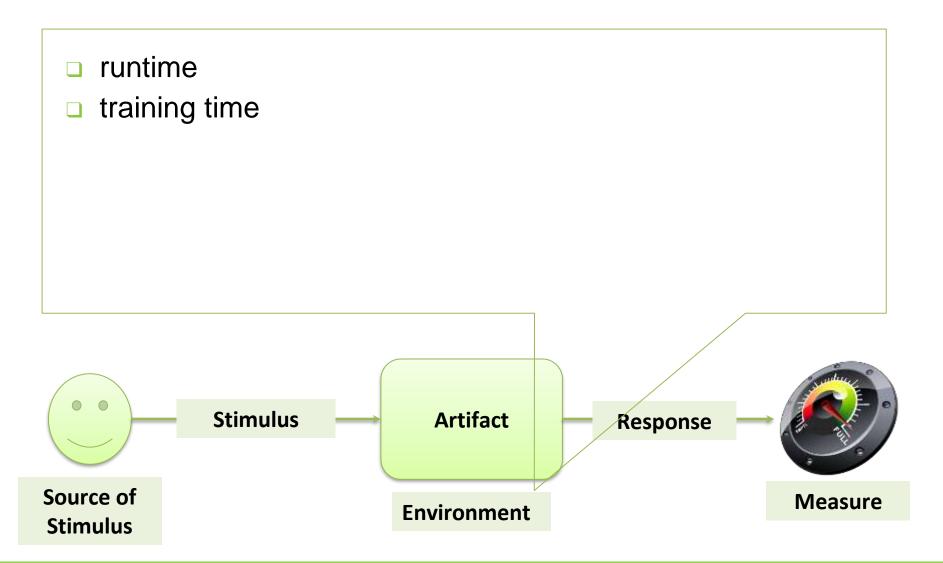


Source of

Stimulus

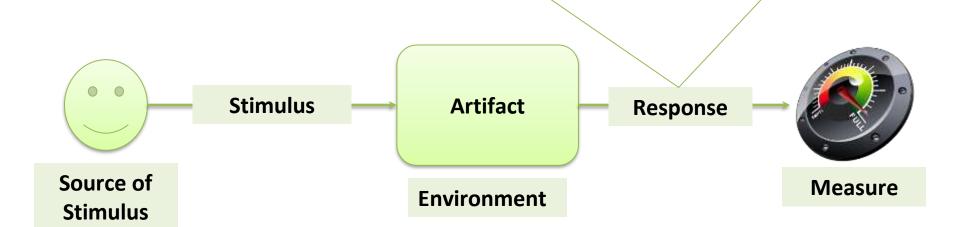
Environment





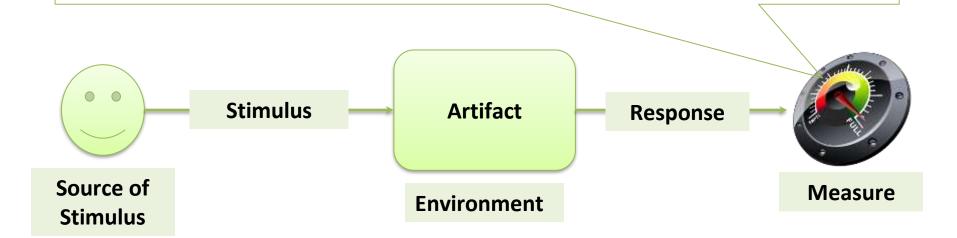


system provides features or anticipates or supports learning





- task time
- number of errors
- user satisfaction
- gain of user knowledge
- ratio of successful operations to total operations
- or amount of time or data lost when an error occurs







Source:

User

Stimulus:

Search for related datasets

Artifact:

Related dataset search

Environment:

Runtime

Response:

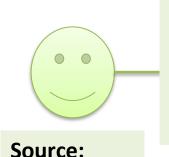
The system
explains
relationships
between
datasets
(confidentiality)



Measure:

user gains the knowledge of the semantic relationships between datasets





User

Stimulus:

Delete registrations of datasets

Artifact:

Dataset registration

Environment:

Runtime

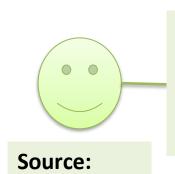
Response:

The system
enables the
user to delete
datasets
corresponding
to entered
search criteria



Measure: within 30 seconds





Doctor

Stimulus:

New security certificate

Artifact:

Electronic prescription system

Environment:

Runtime

Response:

The system enables the doctor to get a new certificate



Measure:

up to 3 clicks without studying any user documentation



Goals of Usability Tactics

- support the user's initiative
- support the system's initiative





Support User Initiative

- Cancel
- Pause/Resume
- Undo
- Aggregate





Support System Initiative

- task model
- user model
- system model

