# A computing system is successful when…

- It fulfills all requirements (+1)
- Compliant with regulations like GDPR
- It has to be useful
- Stakeholders are satisfied

- It it not unnecessarily complex
- It can be updated to prevent errors.
- Output is as expected.

- Being user-friendly and self-explanatory interface
- Can handle complicated task in a easy and understandable way
- It is easy enough for anyone to use.
- Could be understood, reasonable, and be well explained.

- Efficient and affordable.
- Cost effectiveness

- Perform all its tasks with high robustness

- It doesn't has any logically paradox on design.

- It has to be meaningful.

- It can be applied for future use.
- Could be compatible with different data sources.

**CLUSTER 1**

- Being user-friendly and self-explanatory interface
- Can handle complicated task in a easy and understandable way
- It is easy enough for anyone to use.
- Could be understood, reasonable, and be well explained.

*How to measure*

- User surveys
- Interview several volunteers( which used the computing system)
- Also consider first time user experience
- Usability testing
-
- Take user feedback to improve usability
- Measure time of specific tasks made by the users - try to identify which tasks might need refinement
- Count the number of user-computer (click, keyboard search, …) needed to achieve one task

**CLUSTER 2**

- It it not unnecessarily complex
- It can be updated to prevent errors.
- Output is as expected.

*How to measure*

- Test cases for code
- Full software development cycle
- Use less fixed settings as we can
- For users: UX testing for
- Could be revised easily
-
-
-

**CLUSTER 3**

- It fulfills all requirements (+1)
- Compliant with regulations like GDPR
- It has to be useful
- Stakeholders are satisfied

*How to measure*

- Requirements Engineering (Requirement Elicitation, Analysis and Validation)
- KPIs

- Stakeholder Satisfaction can be measured with surveys, interviews or depending on their function directly
- Don’t break
- Testing
- Ask product manager
-

**CLUSTER 4**

- Efficient and affordable.
- Cost effectiveness

*How to measure*

- Count time spent
- Check power/memory required (related to cost)
- Sequential vs parallelizable
- The space the system requires
- Amount of recursion happening
-
-
-
-
-

**CLUSTER 5**

- It can be applied for future use.
- Could be compatible with different data sources.

*How to measure*

- Case Studies
- Examine whether it leaves enough space for updating
-
-
-

-
-

**CLUSTER 6**

- Perform all its tasks with high robustness

*How to measure*

- Load testing
- Systematic testing
-
-
-
-
-

**CLUSTER 7**

- It doesn't has any logically paradox on design.

*How to measure*

-
-
-
-
-
-
-

**CLUSTER 8**

- It has to be meaningful.

*How to measure*

- Public survey
-
-
-
-
-
-