Decision Framework Report

by engine@n3st.art

at 12/15/2024

Problem Statement

What is the problem?

ISO 25010
Quality control for production of electric airplane

Description - Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Rationale - https://iso25000.com/index.php/en/iso-25000-standards/iso-25010

Stakeholders

Identified stakeholders for domain ISO 25010, see [Stakeholders identification](#)

ACME corp
100

https://en.wikipedia.org/wiki/Acme_Corporation

Nightmare - Bad Electric Airplane

Dream - Great Electric Airplane

Address - Acme street 123

Contact Person - Firstname Lastname

Phone - 12345678

Email - firstname@acme.com

Values

Identified quality creterias for domain ISO 25010, see

Name	Scale Of Measure	Direction	Min	Max
Functionality	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10
Performance	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10
Compatibility	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10
Usability	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10
Reliability	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and	HIGH	0	10

Name	Scale Of Measure	Direction	Min	Max
	more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.			
Security	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10
Maintainability	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10
Portability	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.	HIGH	0	10

Quality creteria for domain ISO 25010

Quantifications

Quantified values for domain ISO 25010 to reflect stakeholders requirements and periorities, see Value quantification

Value	Weight	Tolerable	Goal	Wish
Functionality	14	4	6	8
Performance	14	4	6	8
Compatibility	12	4	6	8
Usability	12	4	6	8
Reliability	12	4	6	8

Value	Weight	Tolerable	Goal	Wish
Security	12	4	6	8
Maintainability	12	4	6	8
Portability	12	4	6	8

Quantified by stakeholder ACME corp

Solutions

Identified solutions for domain ISO 25010 to be evaluated againt values, see Solution identification

EA00888

Description of EA00888

Rationale - Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Address - Acme Street 123

Contact Person - Firstname Lastname

Phone - 12345678

Email - firstname@acme.com

Evaluators

Selected evaluators for domain ISO 25010 to pass judgement, see Evaluator selection

QA Title

b002@significant.no

Master of something, with x+ years of experience...

Name - Firstname Lastname

Address - Somewhere on earth

Phone - 12345678

Evaluations

Evaluation results for domain ISO 25010, see Evaluation form

Values	min	tolerable	goal	wish	max	EA00888
Functionality	0.00	4.00	6.00	8.00	10.00	7.00
Performance	0.00	4.00	6.00	8.00	10.00	6.00
Compatibility	0.00	4.00	6.00	8.00	10.00	9.00
Usability	0.00	4.00	6.00	8.00	10.00	9.00
Reliability	0.00	4.00	6.00	8.00	10.00	10.00
Security	0.00	4.00	6.00	8.00	10.00	8.00
Maintainability	0.00	4.00	6.00	8.00	10.00	3.00
Portability	0.00	4.00	6.00	8.00	10.00	7.00

Evaluated by QA Title

Attachments by QA Title

EA00888

Functionality

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Performance

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Compatibility

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Usability

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Reliability

Security

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Maintainability

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Value Solution Matrix

Computed Value-Solution Matrix for domain ISO 25010, see [Value Solution Matrix](#)

Values	min	tolerable	goal	wish	max	EA00888
Functionality	0.00	5.60	8.40	11.20	14.00	9.80
Performance	0.00	5.60	8.40	11.20	14.00	8.40
Compatibility	0.00	4.80	7.20	9.60	12.00	10.80
Usability	0.00	4.80	7.20	9.60	12.00	10.80
Reliability	0.00	4.80	7.20	9.60	12.00	12.00
Security	0.00	4.80	7.20	9.60	12.00	9.60
Maintainability	0.00	4.80	7.20	9.60	12.00	3.60
Portability	0.00	4.80	7.20	9.60	12.00	8.40
Total Score	0.00	40.00	60.00	80.00	100.00	73.40

Based on QA Title's evaluation

Value score - drived from

valueScore = adjustedWeight*normalized Score

adjustedWeight = sum(stkWeigth*qntWeight)

normalizedScore = evaluation/(vDirection*vRange)

vRange = abs(vMax-vMin)

vDirection = low = -1, high = 1

evaluation = evaluator score for given (s,v) pair

Solution score - drived from

solutionScore = sum(valueScore)

Color coding - satisfiablity check
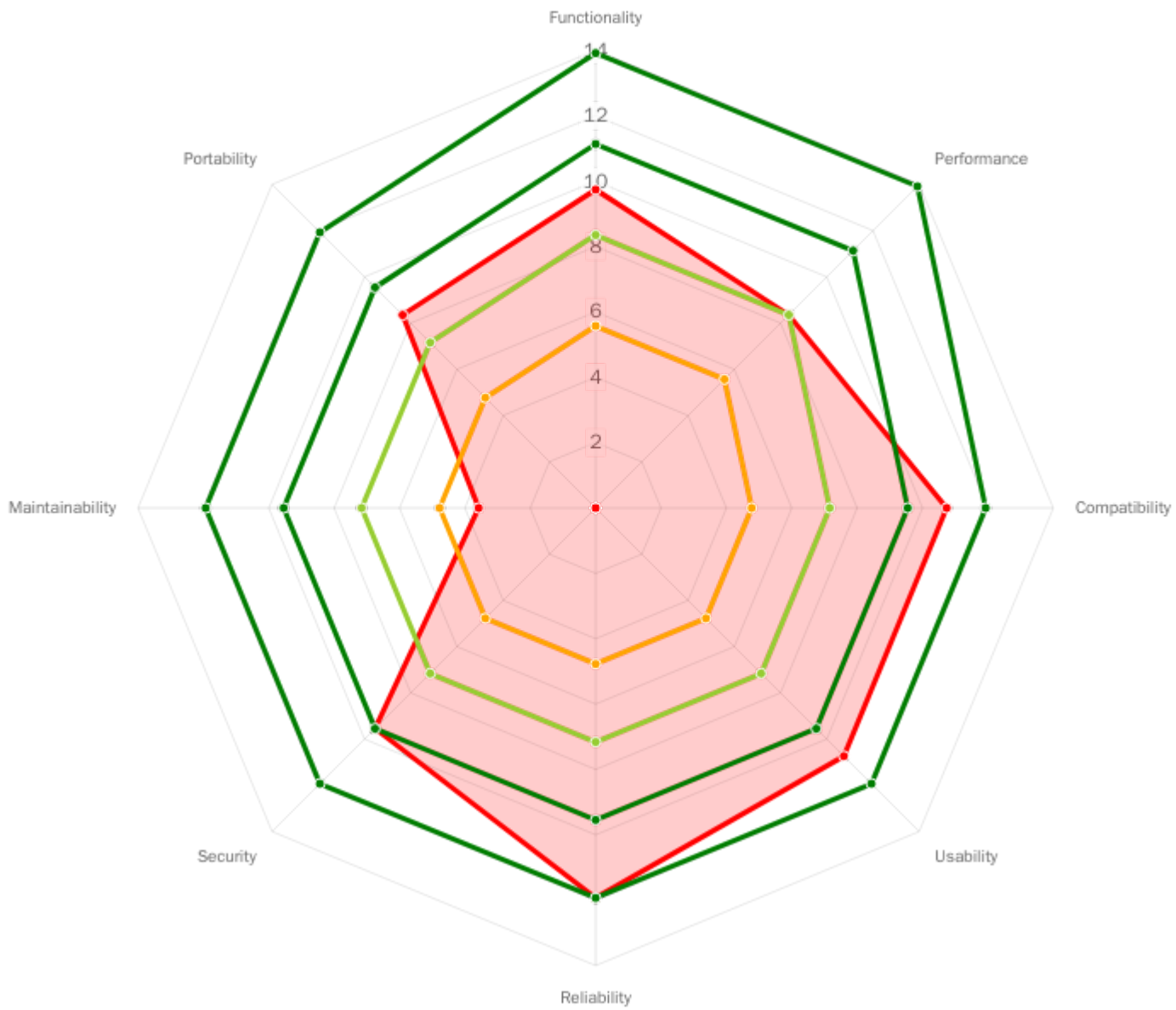
RED - Don't satisfy tolerable trashhold

ORANGE - Don't satisfy goal trashhold

YELLOW - Don't satisfy wish trashhold

GREEN - Wish trashhold is satisfied

Summary

Based on QA Title's evaluation

Acceptable solutions

None