

## I402A Software Architecture and Quality Assessment

Quizz 1: Software architecture and quality

This assessment evaluates the following competencies:

- SA201 Define what is software quality and explain how it can be ensured
- SA202 Understand and illustrate the links between a software architecture and its quality
- SA401 Understand what is the conceptual integrity and take actions to ensure it a for project
- SA402 Understand and discuss about the questions and dilemmas that a software architect could face

Five affirmations are given for each assessed competency. For each of them, you have to decide whether it is true or false. To get a star for the competency, you must have the correct answer for the five affirmations.

SA201	True	False
It is possible to ensure some quality criteria just by choosing a right software architecture.		
Choosing a layer architecture for a given software will always result in an increased maintainability.		
For a search engine, such as Google, availability is an important quality criterion.		
Decreasing the number of components of a software system always increases its quality.		
The fact that a software system works as intended is a quality criterion.		
SA202	True	False
An architecture choice can favour or penalise the performances of a software.	True	False
	True	False
An architecture choice can favour or penalise the performances of a software.  Choosing a layer architecture for a given software will always result in an increased maintain-	True	False
An architecture choice can favour or penalise the performances of a software.  Choosing a layer architecture for a given software will always result in an increased maintainability.	True	False



SA401	True	False
A software architect must ensure that the conceptual integrity of a software is preserved.		
Having a uniform user interface throughout a software system is part of the conceptual integrity.		
The conceptual integrity of a software with a lot of small independent features is for sure preserved.		
The conceptual integrity of a software is a kind of a line of conduct to follow.		
Implementation details of a software system are defined by the conceptual integrity.		
SA402	True	False
A good software architect always has to plan the future and design for change.		
A good software architecture imposes its constraints on the execution environment.		
Demands from the business can always be ignored by the software architect.		
A software architect has to make choices for the fundamental structure of a software.		
A software architect may have to produce several view for the software architecture of a system.		