

Architectural Requirements Specifics from 05-03-2014 Meeting with Stacey

- At the top of the document we need to specify that we actually sat down and worked together.
- Regarding the Quality Requirements:
 - This section counts 6 out of 10.
 - Categorize them under Critical, Important and Nice-to-have.
 - In these categories specify the following:
 - Why we chose that as a requirement
 - How it can be achieved i.e.
 - A strategy to achieve that requirement **e.g.** to achieve Scalability, clustering is needed
 - Architectural patterns (how does this pattern achieve the requirement) **e.g.** Pipe and Filter Pattern is good for encryption in Security

NOTE: Underneath the “How to achieve”, limit your talk about the required technologies and when speaking about the technologies you can pull information from the Quality requirements.

NOTE: Look up Architectural Strategies!!

Categories

- Critical:
 - Scalability → Ruth
 - Security → Kabelo
 - Usability → Lindelo
 - Integrability → Sylvester
- Important:
 - Performance requirements → Thinus
 - Pluggability (Maintainability) → Roger
 - Monitorability and Auditability → Maria
- Nice-to-have (no need for much detail; exists only if the system resources allowed for it)
 - Reliability and Availability → Axel
 - Testability → Maphuti

Layout of Quality Requirements

1. Description
2. Justification
3. Mechanism
 - a. Strategy (i.e. ways to implement it **e.g.** Security can be implemented using Authentication)
 - b. Architectural Pattern (how does this pattern achieve the requirement)

- If we wish to have diagrams, we need to give reason as to why we need that diagram.

Regarding the Architectural constraints (to be done on Friday, 6 March, 2015):

- Concerning the layers and SOA in the specs, read the pattern pdf document as well as Chapter 6, and pin point 2-4 patterns and see how they can be merged to benefit this phase.
- When discussing the technologies, we should look at the technologies the client has specified and formulate constraints around that. We are allowed to add our own recommendations, but we must justify them.