Software Requirements Specification

Reading and Reviewing SRS

QA Fundamentals

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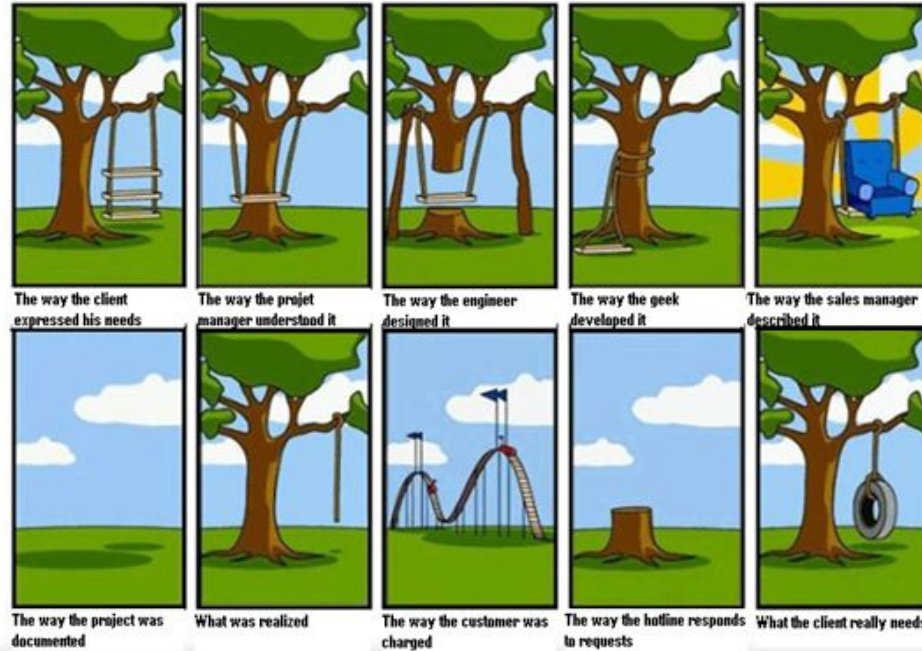
First Look at SRS

First Look at SRS

> A **software requirements specification (SRS)** is a description of a software system to be developed, laying out functional and non-functional requirements, and may include a set of use cases that describe interactions the users will have with the software.

- Establishes the basic agreement between costumer and contractor
  - What software product to do
  - What is NOT expected to do

First Look at SRS (2)

- Should enlist enough and necessary requirements for the project development

- Should have clear understanding of the product

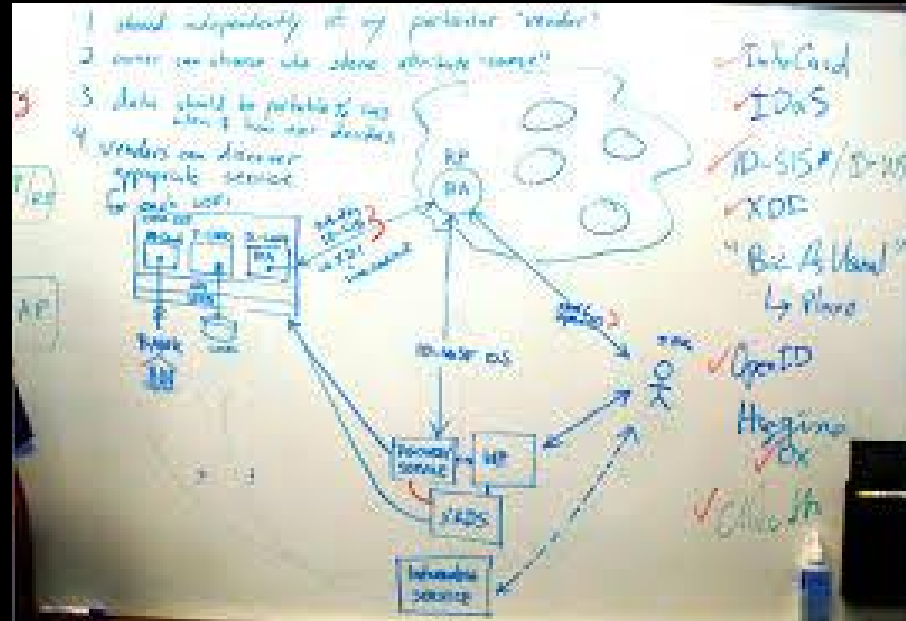- Often changed after each meeting with customer

Use Cases

Use Cases

- List of interaction steps

- Defines relation between an actor and a system

- Usually satisfying a goal

- Actors are able to take decisions

- Decisions lead to subcases

Use Cases (2)

- Models
  - Can be modeled via UML
  - Can be flat text documents
- Template
  - Name
  - Actors
  - Preconditions
  - Flow
  - Post conditions

Use Cases – Live Demo

Readability

Readability

- In order to be easy to read, an SRS should answer
  - Contains a high-level description of the scope?
  - Is it easy to navigate?
  - Is it easy to distinct primary from secondary cases?
  - Contains links to related features?
  - Calls out questions which still need to be addressed?

Review

Review

SRS review is going to through the document and trying to understand what the target application is going to be like.

- The review results in
  - Test scenarios list
  - Found errors by statically going through the document
  - Questions for better understanding
  - Preliminary idea of the test environment
  - Test scope identification
  - How many test cases will end-up having

Useful Links

- Example SRS:
http://www.cse.chalmers.se/~feldt/courses/reqeng/examples/srs_example_2010_group2.pdf

Summary

- What is an SRS?

- What does it contain?

- How use cases are described?

- High level and low level cases

- Requirements for readable SRS

- Reviewing SRS

  - How to do it?

  - Pre-steps

  - Results

Software Requirements Specification

Questions?

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