08/24/2015

Status Report

* Project Selection
* Team formation
* Team contract

Big picture:

* requirement



* first way to do it
* alternatives

Requirement management:

* elicitation (sources, techniques)
* analysis (conflict handling, bounds, scoping, elaboration)
  + decide the scope
  + CLEARLY COMMUNICATE WHAT YOU ARE GOING TO DO AND NOT GOING TO DO
* write specification (Software Requirement Description, SRS, SOW)
* Validation
  + is that the right requirement
  + DONT: it’s impressive but not what I needed
* management (traceability, change management)

Introduction to requirements:

* Functional: features that the system has to have
* Non-functional: performance, usability (system needs to perform within 3 seconds)

Logical Categories:

* Must have
* Should have
* Could have
* Wish List

Sometimes, user does not know what they want?

* goal: understand problem
* necessary to understand requirement
  + organization: who to talk to? who actually uses the app
  + existing system
  + processes (formal/informal): what is the real work, not based on the manual
  + improvements
* where does this information come from

How to get data?

* interview:
  + unstructured (open interview): random questions
  + structured: everybody ask something
* Survey/questionnaire:
  + people are not always honest
* observation
* ethonography: like undercover boss
* business plan:
* review internal/external document
* review existing software/gap analysis
* domain analysis
* prototypes

Who to talk to?

* Customer
* Users of the system
* stakeholders
* actors

Tips

* don’t piecemeal the customer to death
  + figure out what you don’t know and go back to the customer **ONCE**, to ask all the questions
* have an elicitation plan and follow it
* analyze what you have and then plan to fill in the gaps
* Non-functional requirements:
* ilities

Stating the requirements (inlcudes NFR’s):

* unambiguous
* complete
* concise
* testable
* necessary
* achievable
* WHAT not HOW

SOFTWARE PROJECT MANAGEMENT:

* Goal: on time, on budget, all features featured
  + we have to plan properly: traditional management
* Project manager’s dilemma: Good, fast, cheap

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GANTT CHART:

* scheduling:
  + be realistic
  + find critical path: think the project as a graph
* decide what to do?
  + Work breakdown structure
    - defines scope:
      * Major part 1: what is included in the project
      * Major part 2: what is not included in the project
  + Task: something that consumes time and/or resources
  + milestone: consumes neither time nor resource
  + How to make gantt chart? microsoft projects

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**FEASIBILITY STUDY**

Is it feasible?

* CMMI: formal evaluation process reduces the subjective nature of a decision
* Dind:
  + alternative solution
  + criteria
  + method
    - how am i going to get the information
  + evaluation
    - use method to get raw data
    - analyze data to evaluate each alternative against the criteria
    - we record our findings
  + recommendation