

PXC

Projecte de Xarxes de Computadors
(Computer Networking Project)

PROJECTS

Project Titles

- Head of Department
- Professor: Project Manager
- Team leader: Technical Manager
- Team members: Engineers

(In some companies though you might find other hierarchical structures, like: analyst – programmer, consulting firm, etc)

Project Phases

(The exact dates are in the calendar)

- Boot Camp (6 weeks)
- Kick-off Presentation (10 minutes)
- Progress Report (10 minutes)
- Demo (but-last week)
- Final Report (15 minutes) (last week)

Project Management Tools

1. Architecture Diagram
2. Gantt Chart
3. Risk Management
4. What to do if the project gets delayed?

Architecture Diagram

- A paragraph that specifies what the project implements.
- A diagram that depicts all the clients, servers, protocols and technologies used.
- A list where for each protocol and technology you specify what parts are implemented by you and what pre-existing applications and libraries are you gonna use.

Technologies

- High-level inter-process communication technologies:
 - CGIs, Servlets, RMI, WebServices.
- XML
- Data Bases
- Security (including user authentication and encryption of sensible communications)

Gantt Chart

- Gantt Project: <http://ganttproject.biz>
 - You can define a four-day week (Mo-Th) and make each day equivalent to 2 hours.
- If we cannot estimate the duration of one task, it's because we have to divide it into sub-tasks.
- There is one and only one person responsible for each task.

Risk Management

- Risk: An event that has a probability 'P' of happening. And, that in case of happening will have an impact 'I' against the project success.
- Identify the Top 5 risks.
- Order them by size (probability X impact).
 - 'P' & 'I': VH, H (high), M (medium), L (low), VL.
- The more specific a risk is, the better.
- There is one and only one person responsible for each risk.

Risk Management

- Analyze how to estimate more accurately P o I.
- Analyze how to prevent or minimize P or I.
- Have a "B plan" in case a risk materializes.
 - Alternative Gantt Branch that will be followed in case a risk materializes.
 - It must have a reaction dead-line.

What to do if projects gets delayed?

- Do less.
 - But never doing less testing, debugging and documentation.
- Do more.
(minimizing distractions & being more efficient)
 - But almost never doing more extra time.
- Give up.