river raid game

Project plan+study diary

Project name

version 1.0

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# PROJECT RESOURCES

This chapter holds the project resources.

## Personnel

List here team members and their roles in the project. Contact information, previous experience, special skills and specific fields of interest.

Especially, remember to name Scrum Master and Product Owner

For each person

* estimate contribution in person hours for each sprint
* travels or other known absences

## Process description

Describe your (preliminary) roadmap for the project (including milestones). What are your project goals and success criteria? **How do you define success and measure it?**

How do you run your project? For example, do you communicate by having weekly meetings, sending e-mails, IRC channels and other means of communication? Who is responsible for what? Try to keep responsibilities clear, so that there will not be situations where magical “someone” (Sam Body or some other Body brother) will take of care of something crucial. You should also be able to commit, so taking a responsibility on something should also mean autonomy to take care of the duty. One cannot be held accountable, if the person did not have the necessary freedom and support. Common working moments (**”coding nights”**) together with the whole groups are highly recommended.

Check also the risks in chapter 3, as your process should make you at least robust to the risks. For example, how to avoid impact of absent key person? In addition, it is not enough to be robust, you should also learn. So, how do you get feedback from the team, assistant and so on? Daily Scrums, sprint autopsies and other such events?

KEEP THIS UPDATED AS YOU LEARN DURING THE COURSE.

## Tools and technologies

What tools and technologies you are utilizing during the project? If there is possibility of version compatibility issues, the version number should be mentioned. If a tool is hard to use, you can assign someone to be the contact or **responsible person (“guru”) on the tool**. How do you react if new versions of tools emerge during the project? If you are using version control repository, please describe how to access it. Also AgileFant URL can be documented here.

Table 1.1: [example] Tools used in the project.

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Contact person** | **version** |
| Documentation | MS Word (word processing)  [office.microsoft.com](file:///\\intra.tut.fi\..\..\..\..\..\Local%20Settings\Temp\office.microsoft.com) | T.T. | 2010 |
| MagicDraw (UML tool)  <http://www.nomagic.com/> | T.T. | 16.9 |
| Communication | mIRC (IRC client)  [www.mirc.com](http://www.mirc.com) | U.U. | 7.22 |
| Skype (internet calls)  <http://www.skype.org> | T.T. | 4.64 |
| Version management | Subversion  [subversion.tigris.org](file:///\\intra.tut.fi\..\..\..\..\..\Local%20Settings\Temp\subversion.tigris.org) | S.S. | 1.4.6 |
| etc. | .. | .. | .. |

# StUDY DIARY

This chapter holds your journal of lessons learned during the course. That is, **more detailed analysis of previous Sprint’s contents**.

## Sprint 1 (every sprint as a section)

### What went well

### What difficulties you had

### What were the main learnings

### What did you decide to change for the next sprint

## Sprint 2

### What went well

### What difficulties you had

### What were the main learnings

### What did you decide to change for the next sprint

# RISK MANAGEMENT PLAN

Consider risks for your project. **The most usual risks** that will affect projects are due to customer, the team itself and technology.

Just listing some risks at the beginning of the project doesn’t help you much… if anything at all.

You can try to come up with **Plan Bs** for the risks. However, remember that the things you won’t expect, will hurt you the most. Thus, focus on the generalities, not on specifics.

Try not to underestimate the probability of small and common risks, and not to overestimate the probability of rare and remarkable events. For example, people usually get 1-2 flus during a year, so in 4 months, it is quite probable that one of the team will be sick and may infect others, too. An average flu lasts for more than one week. So, be prepared. On the other hand, getting hurt in traffic so that it will take a week to recover happens to only for 15000 people yearly in Finland (less than 3 permille of population).

Be sensitive for weak signals, such as difficulties with new technology or runny noses.

**You should think of risks in all categories:**

* customer (ending the project, changing requirements, requirements remain unclear,…)
* technologies (hw/sw; hard to acquire, learning new technologies takes time, suitable library is not found,…)
* environment (network connections and servers fail,…)
* personnel (getting ill, changing jobs, busy with work,…)
* project management (bad scheduling, bad communication, forgetting things,…).

Usually we calculate risk’s **seriousness = severity \* probability**.

Table 4.1: [example] Project risks.

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk ID** | **Description** | **Probability** | **Impact** |
| P1 | Short term absence | 3 | 2 |
| T1 | Hard disk failure | 2 | 2 |
|  | etc. … |  |  |

## [example] Personnel risks

Try to estimate risk probability, use a scale of **1 to 3** (or 1..5) or Small, Medium, Large.

Other criterion will be the impact or severity. So, how the risk will harm you, if realized. Use similar scaling as in probability.

### [example] Risk P1: short term absence of one person

Every major risk in the table will be further elaborated here. Analyze the risks, so that those risks which will hurt you the most are analyzed in more detail than rare and low-impact risks.

However, remember that the low impact risks may have cumulative effects, if they have high probability, and thus occur frequently.

Incorporate your mitigation methods to your process (see 1.2.). However, consider the sensibleness of the measures (risk severity vs. cost). For example, getting a flu shot (vaccination) for everyone in the team would surely be overkill.

**Root cause (source):** description of the risk. A key person will be absent for several days.

**Importance (seriousness):** from the table, basically probability and impact, possibly combined with frequency.

**Avoidance:** if you can lower the probability by preventive means, or even totally suppress (reject) the risk. For example, getting flu shots for everyone will lower the risk of short term sickness.

**Response (prevention):** means to take, if you have weak signals of looming disaster. For example, someone seems to be getting sick or will have a mandatory absence next week, redistribute the work load and share all relevant information, so that the team will be able to carry on.

**Recovery (survival):** the means to take, if other means have failed, and the risk has realized. Plan B. For example, redistribute the workload; focus on the most important features.

## [example] Technology risks

### [example] Risk T1: hard disk failure

**Symptom, early warning sign:** disk makes noise, arbitrary reading errors occur more often than before.

**Source or reason:** hard disk is at the end of its lifespan, or hard hit

on computer while disk was running.

**Probability:** 2 medium (on scale 1-3)

**Seriousness:** 2 medium (on scale 1-3)

**How to avoid:** buy a new disk when starting a project.

**How to prevent:** when first symptoms occur, take additional back-ups and change the disk as soon as possible.

**How to survive:** back-ups, and a replacement disk or whole computer.