Project plan+study diary **Gikoball**version 1.3

TUT	Pervasive Computing	TIE-21106 Software Engineering Methodology	
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Docume	nt status: draft	Modified: 20.02.2015 15:33	

VERSION HISTORY

Version	Date	Authors	Explanation (modifications)
1.0	28.01.2014	Marko L.	Initial version
1.1	11.02.2014	Marko L.	Deleted finnish text
1.2	18.01.2015	Tensu	Sections 1.4.x, cosmetic tuning
1.3	26.01.2015	Marko L.	Final touches

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1. PROJECT RESOURCES

1.1 Personnel

Thibault Deutsch, Baptiste Delhommeau, Denis Castéran and José Carlos Ramìrez form the team.

Here is the contact information:

- Thibault Deutsch (249441) thibault.deutsch@student.tut.fi
- Baptiste Delhommeau (249821) <u>baptiste.delhommeau@student.tut.fi</u>
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- José Carlos Ramìrez (249641) jose.ramirezvega@student.tut.fi

Thibault, Baptiste and Denis come from France. They study computer science in EPITA, in Paris. They have good background in programming and have already made two big projects (six months), in groups of four people.

José is from the University of Zaragoza, in Spain, and he study Telecommunication and Networking. He has never worked in a long group project, only one or three months. He has knowledge in Computer Architecture, Distributed Systems and Digital Electronics Systems.

1.2 Process description

Our preliminary roadmap for the project is:

- Basic game engine (physics, background, ...) and user interface.
- Then, the game logic.
- Then, working on the story and the game experience.
- And at the end, finalize the graphic design and other specifications define by the User Story.

Our goal for this project is to make a Wizzball like game that works and that is fun to play. Moreover, we measure our success criteria by sending to our friend the game and ask them to comment. If 70% of the players think that the game is good, our goal is reached.

The team tries to organize a meeting each week. During this meeting, we take the time to organize the project and speak about the works that need to be done. If we encounter difficulty or if we want to spend some good time together, we organize a coding night (with beer of course) in an apartment.

Moreover, we use Facebook group message to communicate instantaneously all the time. It's really fast because members receive notification on their phone, so in case of emergency, we can answer/react as fast as possible.

1.3 Tools and technologies

This project is made using Processing. So, of course, we use the native Processing IDE and Java SDK. Moreover, for all the communication we use Facebook Messenger and Skype (but we prefer IRL meeting).

For the source code, we have created a git repository on Github. The repository is open (because it's a student project that doesn't need to be confidential). But only the contributors – the four member of the team – have a write access to the repository. Other people can only read the code source, submit bug via the tracker and make pull-request that need to be validate by the collaborator. The repository is available here: https://github.com/dethi/Gikoball

If a new version of Processing is released during the project development, we have decided to not update our software. This will guard us from all kind of new bugs.

Table 1.1: Tools used in the project.

Purpose	Tool	Contact	versio
		person	n
Documentation	MS Word (word processing)	T.D	2011
	office.microsoft.com		
	Agilefant	T.D	2015
	http://www.agilefant.com		
Communication	Facebook Messenger	All	2015
	http://www.facebook.com		
	Skype (internet calls)	All	2015
	http://www.skype.org		
Version	Git	T.D	2.3.0
management	http://git-scm.com/		
IDE	Processing	All	2.2.1
	https://processing.org/		

1.4 Sprint backlogs

You can find our sprint backlogs on Agilefant.

2. STUDY DIARY

2.1 Sprint 1

During this sprint, we finished the User Story 1 and 2. The description bellow come from the website of Software Engineering Methodology course.

- User story 1:
 - ✓ When the application starts, it will inquire the player's name.
 - ✓ After this, the game greets the player, tells a compelling background story and the game will begin.
- User story 2:
 - ✓ When the game starts, it will show the player character (the ball) in the middle of the 2D play area. The play area consists of floor on which the ball bounces and a background.
 - ✓ The ball can be maneuvered around the screen using the keyboard. Whenever ball bounces up, it may be decelerated with a key press. When the ball is coming down, it may be accelerated with key presses. The ball's velocity while impacting the floor will set the trajectory for the next bounce.

We have already faced an issue. Indeed, Thibault and Baptiste made a trip in Lapland. During two weeks we hadn't the possibility to organize a meeting. The project started a little bit late.

Moreover, nobody could go to the Agilefant exercise. We have learned to use it on our own. So, our backlog is not perfect.

For next sprint, we will first create all the User Story and the task in Agilefant and then decide the planning. Moreover, we will also add to Agilefant all task about documentation, like completing this document. This will help us to organize our time and guard us from a work overload (and maybe also prevent the risk P2). Finally, we will continue to define new possible risks.

3. RISK MANAGEMENT PLAN

Table 4.1: Project risks.

Risk ID	Description	Probability (scale of 5)	Impact (scale of 5)
P1	Short term absence	3	2
P2	Projects for other courses	5	3
Р3	Vacation and trip	3	4
P4	Lack of motivation	2	5
T1	Hard disk failure	2	2
T2	Broadband Internet problem	3	1
Т3	Github down	1	1

3.1 Personnel risks

3.1.1 Risk P1: short term absence of one person

Root cause (source): a key person will be absent for several days.

Seriousness: 5

Response (prevention): redistribute the workload.

Recovery (survival): focus on the most important features.

3.1.2 Risk P2: projects for other courses

Root cause (source): members of the team have to work on other projects.

Seriousness: 15

Response (prevention): redistribute the workload and share time be-

tween all the projects. Try to avoid rush time.

Recovery (survival): focus on the most important features.

3.1.3 Risk P3: vacation and trip

Root cause (source): members of the team would like to visit Fin-

land.

Seriousness: 12

Response (prevention): redistribute the workload and require members to plan their vacation 2 weeks in advance.

Recovery (survival): focus on the most important features or avoid vacation. Other solution would be to work more during one week.

3.1.4 Risk P4: lack of motivation

Root cause (source): project becomes boring or members don't want to work

Seriousness: 10

Avoidance: have fun during the project, like making coding night or party with the team.

Response (prevention): change the planning and add cool feature that members want to implement.

Recovery (survival): try to motivate the team during a meeting and focus on the most important features.

3.2 Technology risks

3.2.1 Risk T1: hard disk failure

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

Root cause (source): hard disk is at the end of its lifespan, or hard hit on computer while disk was running.

Seriousness: 4

Avoidance: buy a new disk when starting a project.

Response (prevention): when first symptoms occur, take additional

back-ups and change the disk as soon as possible.

Recovery (survival): back-ups, and a replacement disk or whole computer.

3.2.2 Risk T2: broadband Internet problem

Symptom, early warning sign: network lag

Root cause (source): operator problem or router failure.

Seriousness: 3

Response (prevention): call hotline or buy a new router.

Recovery (survival): use the Internet connection at the University

3.2.3 Risk T3: Github down

Root cause (source): Github server down.

Seriousness: 1

Recovery (survival): all member of the team have a clone of the repository on their disk, so we only need to push the repository in an other place, like Bitbucket.

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