PARTool
Project Plan

Version 1.4

Doc. No.:

Revision History

Date	Version	Description	Author
2011-10-12	0.1	Initial Draft	Matija Hanžić
2011-10-13	0.2	Added sections three and four	Ejaz Ali
2011-10-15	0.9	Added timeline to section nine	Matija Hanžić
2011-10-15	1.0	Added activity to section nine	Robert Borošak
2011-10-17	1.1	Updated deliverables	Ejaz Ali
2011-10-19	1.2	Updated project risks and deliverables	Matija Hanžić
2012-01-01	1.3	Final revisions ion	Inderjeet Singh
2012-01-08	1.4	Minor changes	Davor Perić

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1. Introduction

1.1 Purpose of this document

This document describes the plan on how to realize the PARTool project. It describes team organization, given constrains, expected project timeline and evaluates possible risks.

1.2 Intended Audience

Intended audiences for this document are:

- Project members
- Supervisor
- Customers
- All stakeholders

1.3 Scope

Scope of this document is for PARTool project. All team members should be familiar with the contents of this document. Supervisor and customer can use this document to acssess the project's current status.

1.4 Definitions and acronyms

1.4.1 Definitions

Keyword	Definitions
Debian	Linux based operating system
Play!	Web framework for java

1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
FER	Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia
SVN	Subversion, code versioning system
MDH	Mälardalen University, Vasteras, Sweden
OS	Operating system
MOM	Minutes of meeting, the written record of meetings
CDR	Call Detail Records

1.5 References

[1]. Project Web: http://www.fer.unizg.hr/rasip/dsd/projects/partool

2. Organization

2.1 Project management

Igor Rutkowski will be the project leader and Inderjeet Singh will be the team leader. Project and team leaders are in charge of project management and making sure the project meets all the deadlines.

2.2 Project group

Name	Initials	Responsibility (roles)
Igor Rutkowski	IR	Project leader, Client side developer, Review documents
Davor Perić	DP	Server side developer, Documentation, Server side tester
Matija Hanžić	MH	SVN manager, server side developer, Server side tester
Robert Borošak	RB	Main client side developer, Client side tester
Inderjeet Singh	IS	Project management, client side developer, documentation, client side tester
Ejaz Ali	EA	Client side developer, Documentation
Arno Van Lumig	AVL	Quality assurance manager, client and server developer, Server administration

These roles are defined at the beginning of the project. Some roles will change during the project which will depend on the project needs at a certain time.

2.3 Steering group

Marin Orlić from FER is the project supervisor. Project leader will be in close contact with project supervisor making sure the project is going in the right direction.

2.4 Customer

Mr. Branko Beslać from Kapsch TIS Ltd. is the customer. Mr. Beslać is at the disposal to project leader to get additional information about project requirements.

2.5 Others

Prof. Ivica Crnković from MDH and Prof.dr.sc. Mario Žagar from FER.

3. Assumptions and constraints

3.1 Technological

The Project will use JAVA's “Play” framework for server end. PostgreSQL will be used as database. For client side JavaScript framework raphael.js will be used. For code revisioning, we will use SVN. SVN clients will be selected on personal choice.

3.2 Environmental

The project web application which can be run on latest web browsers will use user authentication.

3.3 Interpersonal

Project Team is distributed in two cities namely Västerås and Zagreb. Communication is mainly done using emails and Skype. SVN is used to work simultaneously on Code and Project's various documents.

3.4 Work distribution

Project work is distributed evenly among team member as much as possible. Main task are identified as Project Manager, Team Leader, Developer, Server Administrator, SVN manager, QA supervisor and writer (who writes documentation) and Documentation supervisor.

3.5 Causal relationships

Project Team will work in professional approach. Everyone in the team is assigned tasks equally and everyone is expected to deliver without failing.

3.6 Time

Time is considered to be very important. Every task and milestone is expected to be delivered in time. Team will have meetings in daytime. Unnecessary delays are unacceptable.

4. Deliverables

To	Output	Planned week	Promised week	Late +/-	Delivered week	Rem
Client	Project proposal	39	39	0	39	
Client	Project Requirements	41	41			
Supervisor	Project Policies	42	42			
Client + Supervisor	Project Design	43	43			
Supervisor + Client	Alpha release	47	47			
Client	Project Implementation	50	50			
Supervisor + Client	Project Testing	52	52			
Supervisor + Client	Technical Documentation	1	1			
Supervisor + Client	User Manual	1	1			
Supervisor + Client	Beta release	1	1			
Supervisor + Client	Final Product	2	2			
Supervisor + Client	Final Documentation	2	2			

5. Inputs

From	Required item	Planned week	Promised week	Late +/-	Delivered week	Rem
Customer	Project proposal	39	39	0	39	
Customer	Project requirements	40	40	0	40	ID 001
Supervisor	Database with CDRs	41	41			ID 002

5.1.1 Remarks

Remark Id	Description
ID 001	Members from the Croatian side attended the meeting with Mr. Beslać at Kapsch TIS Ltd.

ID 002	Supervisor will provide database with CDRs which he received last year from Kapsch

6. Project risks

Possibility	Risk	Preventive action
High	Misunderstandings	Have frequent meetings and produce MOM documents after meetings to make sure everyone understood what their responsibility is
High	Meeting deadlines	Project and team leader will constantly check on projects progress
High	Insufficient performance	Reconfigure the RDBMS if necessary, optimize code and SQL queries
Medium	Project member leaving	Have all team members work on a shared repository and make sure at least two members are familiar with each part of the project
Medium	Lack of knowledge	Keep good communication open between members and assign additional members to tasks which falls behind
Low	Hardware failure	SVN manager will make regular backups of the repository.

7. Communication

Having well defined communication channels is crucial for the success of this project. There will be at least one group meeting each week. For each meeting there will be an agenda which the meeting chairman will enforce. For group meetings Skype and Google+ will be used. All important issues will be discussed at meetings. After each meeting a designated group member will make and post a MOM document where all the important meeting conclusions will be stated.

For group communication between meetings a Google group called PARTool has been opened. All members can post whatever issues they have. All team members are required to regularly check discussions on the group. Communication between members is not defined but mostly emails and Skype will be used. All members are encouraged to be proactive and cooperate as much as possible on their tasks.

Official language in this project is English. All team meetings and official documents will be in English.

8. Configuration management

For the purpose of this project a server on a virtual machine at FER is available. The following technologies will be used on the server:

- Database – PostgreSQL
- Web server – Glassfish
- OS – Debian
- Web application – java based application with Play! Framework

For the client side the following technologies will be use:

- JavaScript with Raphael library
- Ajax and JSON

Code management for this project will be done using SVN. FER has provided the following repository for the project's needs:

- Repository URL: svn://lapis.rasip.fer.hr/svn/dsd11/Part

9. Project plan

9.1 Time schedule

Id	Milestone Description	Responsible Dept./Initials	Finished week				Metr.	Rem.
			Plan	Forecast		Actual		
				Week	+/-			
M001	Project vision	IR,IS,DP	41	41		41		
M002	Project plan	MH,RB,EA	42	42				
M003	Requirements definition	IS,DP	42	42				
M004	Project policies	MH,IS,AVL	42	42				
M005	Design description	IR,IS	43	43				
M006	Alpha version	IS,IR	47	47	1			
M007	Quality testing	MH,DP,IS,RB	48	48	1			
M008	Acceptance test plan	IR,IS	50	50				
M009	Beta version	RB,EA,IS	1	1				
M010	Test report	DP,MH	2	2				
M011	Final project report	IS,IR	2	2				
M012	Final product	All	2	2				

9.2 Activity plan

Activity	w41	w42	w43	w44	w45	w46	w47	w48	w49	w50	w51	w52	w1	w2
Project organization	x													
Requirements definition	x	x	x											
Requirements analysis			x											
Design architecture			x	x										
Alpha version development				x	x	x	x	x						
Quality testing							x	x	x					
Beta version development									x	x	x	x	x	
Acceptance testing										x	x	x	x	
Final product													x	x
Documenting project progress	x	x	x	x	x	x	x	x	x	x	x	x	x	x

9.3 Financial Plan

Activity	Volume (days)	Cost	Rem.
Requirements definition and analysis	10x7	€ 2100	1
Design architecture	5x3	€ 450	1
Developing alpha version	15x5	€ 2250	1
Testing and bug fixes	15x2	€ 900	1
Developing beta version	15x5	€ 2250	1
Acceptance testing and final product	20x7	€ 4200	1
Documentation	20x2	€ 1200	1

Planned effort (man-days)	Man-day cost	Planned project cost (100%)
445	€ 30	€ 13 350

9.3.1 Remarks

Remark Id	Description
1	Man-day includes 3 working hours.