Software Patterns
Project Plan

Version 1.0

Doc. No.:

Revision History

Date	Version	Description	Author
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1. Introduction

1.1 Purpose of this document

The purpose of this document is show the intent of the project Software Patterns and its complete schedule.

1.2 Intended Audience

The intended Audience is teachers, classmates and all those interested and authorized people in our project like investigators, customers, developers, all stakeholders.

1.3 Scope

The scope of the plan is within the project of software patterns give the entire activity plan, the guidelines to follow in an organized manner until reach the end of the project.

1.4 Definitions and acronyms

1.4.1 Definitions

Keyword	Definitions
Pattern-Catalog	Contains an arbitrary number of patterns in categories
Pattern	Represent a single pattern
Category	Has an arbitrary number of subcategories
Relation	Refers to a source Pattern and a target Pattern
Iterator	Is often applied to data structures like the design pattern composite
INTENT	Briey introduces the pattern, its use, its intent, problem the pattern is addressed to

1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
MDH	Mälardalen University, Västeras, Sweden
FER	Faculty of Electrical Engineering and Computing
UPB	University of Paderborn
PG POSE	Project Group Pattern-Oriented Software Engineering
DSD	Distributed Software Development
IDT	School of innovation, Design and Engineering
GoF	Gang of four
EMF	Eclipse Model Framework
GEF	Graphical Editing Framework for Eclipse
SVN	Subversion revision control software

1.5 References

http://www.fer.hr/rasip/dsd/all

2. Organization

The project leader will be in Germany and there are two team leaders, one in Croatia and other in Sweden. The project group PG POSE will provide a tool to formally specify a design pattern

2.1 Project management

Supervisor - Dietrich Travkin
Supervisor - Markus von Detten
Project Leader - Jan Schmalor
Team Leader - Shaibal Barua
Team Leader - Marko Vitas

2.2 Project group

Name	Initials	Responsibility (roles)
Jan Schmalor	JS	Project Leader/Project specification/ Quality assurance/ Integration
Shaibal Barua	SB	Team Leader, Development, Testing
Marko Vitas	MV	Team Leader, Development
Andre Backofen	AB	Project specification/Quality assurance/Integration
Adnan Biser	ABI	Project specification/Quality assurance/Integration
Dennis Nobel	DN	Project specification/Quality assurance/Integration
MarieChristin Platenius	MCP	Project specification/Quality assurance/Integration
Antonio Moreno Borras	AMB	Development, Backup and Maintenance
Joanne Chevalier	JC	Development, GUI-Design
Jasenko Ramljak	JR	Development, Requirements specification, SVN
Ivica Pađen	IP	Development, Testing
Stipe Grbić	SG	Development, Backup and Maintenance , Testing

2.3 Steering group

Supervisor - Dietrich Travkin
Supervisor - Markus von Detten
Project Leader - Jan Schmalor

2.4 Customer

PG POSE project-University of Paderborn

2.5 Others

Prof. Ivica Crnković (MDH), Prof.dr.sc. Mario Žagar (FER)

3. Assumptions and constraints

3.1 Technological

As this project is actually about developing an Eclipse plugin, the programming language we are going to use is Java.

Besides, for reports and presentation we chose to use Open Office, and also LaTeX for documentation papers.

3.2 Environmental

The software development will be made using Eclipse and its frameworks :

- Eclipse IDE
- Eclipse Modelling Framework
- JUnit testing tools

- EclEMMA – test coverage

Many programming tools exists for Eclipse and will be really helpful for developing this plugin. This is one of the advantages of using Eclipse IDE.
Besides, Eclipse is a free and multi-platform IDE and the final product will be a plugin that every programmer will be able to use, no matter which operating he uses.

3.3 Interpersonal

Communication is the most important part of this distributed software development project. Each member of the team should keep in mind that it would be very dangerous to neglect this aspect.

The Paderborn members must be frequently informed about the project evolution and the developing decisions so that they can detect problems soon enough and guide the developers telling them what is going wrong.

In order to do that, weekly meetings are organized on Thursdays with the whole team and using Adobe Connect.

Besides, between those meetings, developers can ask questions to the Project Leader in Paderborn to have more details on what they don't understand, and they are also encouraged to often talk to each others.

Good interpersonal communication essential to complete this project successfully.

3.4 Work distribution

Each member chose the field in which he feels the more comfortable or interested in.
Paderborn members do not take part in the implementation work. Except the meta-model implementation they provide and that is the basis of the Software Patterns plugin. All the other members are developers and must make the documentation related to their work.

3.5 Causal relationships

3.6 Time

Each member must read carefully the deliverables table and the activity plan and keep in mind the deadlines.
Time is one of the most important things to be aware of during this project. Delays can not be accepted and must be avoided.
So it is essential for the team members to be warned when someone is going to be unavailable during a certain period (exams, trip, illness, ...etc.)

4. Deliverables

To	Output	Planned week	Promised week	Late +/-	Delivered week	Rem
Customer, Supervisors	Project plan document	39	39	0	39	
Customer, Supervisors	Requirements definition document	39	39	0	39	
Customer, Supervisors	Design description document	40	40			
Customer, Supervisors	Accepetance test plan	49	49			

Customer, Supervisors	Test report	2	2			
Customer, Supervisors	Final project report	2	2			
Customer, Supervisors	Final product	2	2			

4.1.1 Remarks

Remark Id	Description
1	Deliverables “Summary week report“ and “Minutes of meeting“ will be delivered on weekly basis
2	Revisions of existing documents and yet undefined technical documents are going to be delivered during the project

5. Inputs

From	Required item	Planned week	Promised week	Late +/-	Delivered week	Rem
Customer	Project proposal	36	36	0	36	
Customer	Meta-model document	38	38	0	38	
Customer	Use cases document	38	38	1	39	
Customer	Project plan example	38	38			

5.1.1 Remarks

Remark Id	Description
1	Project plan example referes to Microsoft Office Project file created by the customers on their other project.

6. Project risks

Possibility	Risk	Preventive action
40%	Failure to respect the deadlines	Distributed and parallel work. Approach while performing tasks must be thoughtful and diligent.
30%	Communication problems	Team members should try to be as most available as it is possible. Meetings should

		be scheduler frequently. Most important points of audio-visual communication should be written.
20%	Low knowledge	Exchange of knowledge between team members. Team members should prepare for specific task in advance.
20%	Low experience	Exchange of experience between team members.
10%	Unclear project requirements	Documentation should be written correctly and in detail.

7. Communication

Due to the nature of this project there are many ways of communication :

- For video-conference meetings there is virtual room set up every week. The room is accessed through Adobe Connect Pro client.
- There are also project team wiki pages on which it is possible to put informations and news regarding project progress.
- For instant messaging, team members use Skype and Windows Live Messenger. Instant messaging and emails are the most frequent ways of communicating.
- Until there was fixed date for team meetings Doodle tool was used to determine the schedule of the meetings.
- Team members that are currently in the same country communicate via cell phones also.

8. Configuration management

Official DSD Subversion server is used for version controlling of projects code files and documentation. One member of a team is responsible for repository management and maintenance. Other code files and documents exchanges will be made through emails and instant messangers. Certain versions of project solution and documents will be uploaded on projects wiki pages.

Subversion repository is accesible through:
svn://lapis.rasip.fer.hr/svn/dsd10/SoftwarePatterns

Committing policies can be found in the repository.

9. Project plan

9.1 Time schedule

Id	Milestone Description	Responsible Dept./Initials	Finished week				Metr.	Rem.
			Plan	Forecast		Actual		
				Week	+/-			
M001	Project Vision presentation	IP	38	38	0	38	0	
M002	Project plan preparation and presentation	SB, AMB, JC	39	39	0	39	0	
M003	Requirements Definition document		39	40	0	40	0	
M004	Design Description document		41	41	0	41	0	
M005	Alpha Prototype		43	43	0	43	0	
	Beta Prototype		45	46	1	46	1	
M006	Acceptance Test Plan		49	49	0	49	0	
M007	Release candidate		49	49	0	49	0	
M008	Final Project Report document, presentation		2	2	0	1 and 2	0	1

9.1.1 Remarks

Remark Id	Description
1	Some documents will complete before final documentation

9.2 Activity plan

	Phase															
	Inception		Elaboration				Construction					Transition				
Activity	W 39	W 40	W 41	W 42	W 43	W 44	W 45	W 46	W 47	W 48	W 49	W 50	W 51	W 52	W 01	W 02
Project preparation																
Requirements analysis & definition																
Design Description Document																
Implementation																
Testing and bug fixing																
Integration																
Documentation																
Final Project Delivery																
Final Product , report and presentation																

9.3 Financial Plan

Activity	Volume (days)	Cost	Rem.
Project Preparation	7	0	
Requirement Analysis and Definition	10	0	
Project Design	15	0	
Implementation	45	0	
Testing	20	0	
Documentation	30	0	
Final Delivery and Presentation	15	0	

Planned effort (man-days)	Man-day cost	Planned project cost (100%)
142	0	0