

LinkAnalysisTool	Version: 1.3
Project Plan	Date: 2010-11-06

# **LinkAnalysisTool Project Plan**

**Version 1.3**

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## Revision History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
2010-09-30	1.0	Initial Draft	Dominik Rojković
2010-10-01	1.1	Add new details and data	Dominik Rojković
2010-10-12	1.2	On assumptions and constraints chapter, technological and work distribution subchapters changed; Deliverables updated; Time schedule updated	Dominik Rojković
2010-11-06	1.3	Project group subchapter updated; Technological subchapter updated; Interpersonal subchapter updated; Work Distribution subchapter updated; Inputs chapter updated; Project risks chapter updated; Communication chapter updated;	Dominik Rojković

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## 1. Introduction

### 1.1 Purpose of this document

This document describes project plan to make a successful project. Also, it describes whole project organization, project structure and timelines.

### 1.2 Intended Audience

The intended audience is:

- All *LinkAnalysisTool*'s team members,
- The supervisor,
- The customer,
- Future developers.

### 1.3 Scope

Scope of this document includes organization details, project structure, milestones, activity plan, list of deliverables and its deadlines, risks, etc.

### 1.4 Definitions and acronyms

#### 1.4.1 Definitions

Keyword	Definitions

#### 1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
<b>MoM</b>	“Minute of Meeting” document
<b>GG</b>	Project’s Google groups
<b>SVN</b>	Subversion
<b>LAT</b>	Link Analysis Tool

### 1.5 References

None

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## 2. Organization

### 2.1 Project management

**Supervisor** – Igor Čavrak  
**Customer** – Branko Beslać  
**Project leader** – Dominik Rojković  
**Team leader** – Hassan Aziz Khan

Project and team leaders are responsible for the project management. They have to insure good implementation of this plan.

### 2.2 Project group

Name	Initials	Responsibility (roles)
Adrien Olivier	AO	Database communication developer
Rashid Khan	RK	Web developer, Matrix developer
Seyed Morteza Hosseini	SMH	Testing, making use cases and scenarios, documentation
Hassan Aziz Khan	HAK	Team leader, documentation
Petar Dučić	PD	Interface designer, domain layer developer
Petar Butković	PB	SVN manager, system manager, application layer developer
Dominik Rojković	DR	Project leader, Graph developer, documentation

### 2.3 Steering group

**Supervisor:** Doc.dr.sc. Igor Čavrak

### 2.4 Customer

The customer is Mr. Branko Beslać M.Sc., Kapsch TIS Ltd.

### 2.5 Others

Prof.dr.sc. Mario Žagar

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### 3. Assumptions and constraints

#### 3.1 Technological

The project will be based on these technologies:

- HTML, CSS, JSP – for web pages
- JSF – for client authentication and DB connection
- JavaScript – for Graphs
- Group of technologies called AJAX – for asynchronous communication
- SQL – DB queries

#### 3.2 Environmental

Installing Apache (Tomcat) and PostgreSQL database on team member's computer is required for development and testing.

Server for running application will be Linux based, with Apache Tomcat and PostgreSQL database installed.

#### 3.3 Interpersonal

Team members should communicate interpersonal as much as possible so team will be stronger. Face to face communication is not possible between all people because team is distributed in two locations, one in Västerås, Sweden and other in Zagreb, Croatia. Internet communication, based on Skype, is of crucial importance for our team to work as one.

Relationship between people at different locations has to be established and maintained using all available interpersonal communication technologies.

#### 3.4 Work distribution

Project work is divided to several main parts:

##### Development:

- Backend development include:
  - Database module
  - Client authentication
  - Servlets for AJAX calls
- Frontend interface which include:
  - Web page development
  - Web page design
  - Graphic representation of DB data
  - Matrix statistics
  - AJAX calls

##### Support:

- Documentations
- Testing
- SVN and server maintenance

People are going to work on parts for which they have knowledge and satisfy them.

#### 3.5 Causal relationships

None

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### **3.6 Time**

Deadlines are highly compressed which causes less time for work on each.

Team member are encouraged to make as good organization of their time as they can. Also, good discipline is essential.

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#### 4. Deliverables

To	Output	Planned week	Promised week	Late +/-	Delivered week	Rem
Project management	Week Report	40 (2010) - 02 (2011)	40 (2010) - 02 (2011)	-	-	1
Steering group	Summary Week Report	41 (2010) - 03 (2011)	41 (2010) - 03 (2011)	-	-	2
Steering group	Minutes of Meeting	40 (2010) - 02 (2011)	40 (2010) - 02 (2011)	-	-	3
Steering group	Revisions of existing documents	40 (2010) - 02 (2011)	40 (2010) - 02 (2011)	-	-	4
Steering group	Project plan document	40	40	0	40	
Steering group	Requirements Definition document	40	40	0	40	
Steering group	Design Description document	41	41	0	41	
Steering group	Acceptance test plan	50	50			
Steering group	Test report	2 (2011)	3 (2011)			
Steering group	Final Project Report	3 (2011)	3 (2011)			
Steering group	Final versions of all project documents	3 (2011)	3 (2011)			
Steering group	Final product and documentation	3 (2011)	3 (2011)			

##### 4.1.1 Remarks

Remark Id	Description
1	Every week, starting from W40 <sup>th</sup> 2010 to W2 <sup>nd</sup> 2011, all team members will send weekly report.
2	Every week, starting from W41 <sup>th</sup> 2010 to W3 <sup>rd</sup> 2010, summary weekly report will be delivered.
3	After (important) meeting, MoM document will be delivered.
4	Deliver on major changes



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## 5. Inputs

From	Required item	Planned week	Promised week	Late +/-	Delivered week	Rem
Customer	User Requirements	37	37	0	37	
Customer	Database Tables doc.	38	38	0	38	
Customer	Details about project	39	39	0	39	
Customer	SQL scripts for creating PostgreSQL tables with partitions	42	42	0	42	
Customer	DB tables data (huge amount)	43	43	0	43	

## 6. Project risks

Possibility	Risk	Preventive action
High	Miscommunication	Have frequently meetings; Speak English slowly and clearly; Always be sure that conversational partner understood you
High	Failure to comply with the deadlines	Good organization and monitoring activity
High	Impractical deadlines	Good organization of project and people time.
Medium	Lack of experience, knowledge	Study the topic of the project part you work on; "Practice makes perfect.", "Knowledge is power."
Medium	Problems with implementations	Examine issues; Redefinition of the project design, different technologies, different approaches
Medium	Uneven distribution of work load	Help each other; Redistribution of work

## 7. Communication

Interpersonal communication is of crucial importance in this project due to team distribution. Official language is English in every communication.

Communication is organized through formal meetings and informal talk and chat. *General Policies'* document introduces and describes these formal and informal communications in detail.

People are in formal contact frequently through 3 different types of meeting. These three types are:

- General meetings – which is attended by all team members and is held every 2 weeks,
- Local meetings – which is organized every week locally, one in Sweden and in Croatia and

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- Leaders meetings – which is meeting for leadership of the project.

Also, for good interconnection, other communication tools are used. These tools include Google Groups, Skype, Doodle, SVN, etc.

All team members are encouraged to be proactive and initiatory.

## 8. Configuration management

Software configuration management (SCM) is the task of tracking and controlling changes in the software. Configuration management practices include revision control and the establishment of baselines.

Tracking code and document revisions are accomplished using SVN repository. *SVN policy* will be made in the near future.

## 9. Project plan

### 9.1 Time schedule

Id	Milestone Description	Responsible Dept./Initials	Finished week			Metr.	Rem.
			Plan	Forecast Week	Actual		
M001	Project vision	DR, HAK	39	39	39		
M002	Project plan	DR	40	40	40		
M003	Requirements Definition	HAK	40	40	40		
M004	Design Description	RK, DR	41	41	41		
M005	Prototyping–Iteration1	RK, PD	44	44			
M006	Milestone - Alpha prototype	RK, PD	44	44			
M007	Prototyping–Iteration2	AO	47	47			
M008	Milestone - Beta prototype	AO	47	47			
M009	Implementation	DR, RK, AO	51	51			
M010	Milestone – Release candidate	DR, RK, AO	51	51			
M011	Testing	MHS	01	01			
M012	Final Project Report, final versions of existing documents, other project-related documentation	HAK	03	03			
M013	Final product	RK, PD, DR, AO	03	03			

#### 9.1.1 Remarks

Remark Id	Description

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## 9.2 Activity plan

Activity	w38	w39	w40	w41	w42	w43	w44	w45	w46	w47	w48	w49	w50	w51	w52	w1	w2
Requirement Analysis	■	■	■	■													
Design				■	■	■	■	■	■								
Prototyping				■	■	■	■	■	■	■							■
Implementation										■	■	■	■	■	■		■
Testing													■	■	■	■	■
Documentation	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

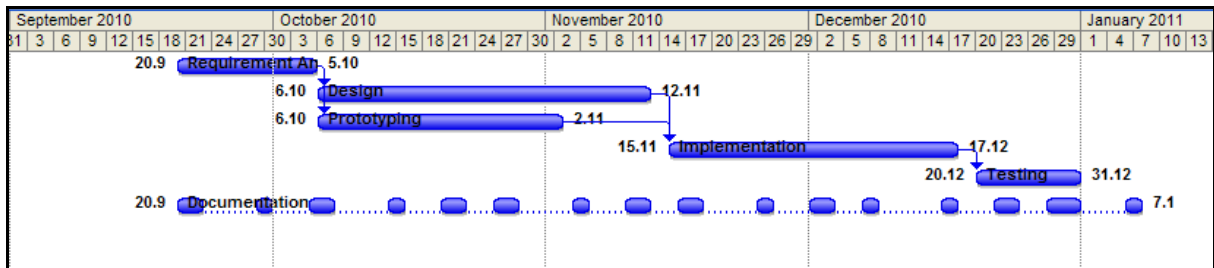


Image 1: Gantt chart

## 9.3 Financial Plan

Activity	Volume (days)	Cost	Rem.
Requirements Engineering	3 × 12	\$2.160	1
Application Design	3 × 28	\$5.040	1
Prototyping	4 × 20	\$4.800	1
Implementation	4 × 25	\$6.000	1
Testing & bug fixing	5 × 10	\$3.000	1
Documentation and maintenance	2 × 42	\$5.040	1

Planned effort (man-days)	Man-day cost	Planned project cost (100%)
434	\$60	\$26.040

### 9.3.1 Remarks

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