

Project Name : Transport4You	Version: 2.0
Project Plan	Date: 2011-01-15

Transport4YouProject Plan

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Revision History

Date	Version	Description	Author
2010-09-30	0.8	Initial Draft	Gaurav Kushwaha
2010-09-30	0.9	Minor changes in Section 1.1 and 3.1	GK
2010-10-01	1.0	Indentation and minor fixes	Toni
2011-01-15	2.0	Added timelines for deliverables	GK

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1. Introduction

1.1 Purpose of this document

The purpose of this document is to provide not only team members, but also to the supervisor and even to the customer about the insight of the development of Transport4You. This document will also serve as an input to score supervisor and evaluators. This project is being done as a part of the distributed software development course jointly conducted in Malardalen University, Vasteras, and Faculty of electrical engineering (FER) in Zagreb, Croatia.

1.2 Intended Audience

- Team Members: Should know the deadlines, roles, responsibilities, project deliverables and other plans about the project.
- Supervisors: Need to know the status of the project and when to expect the project deliverables.
- Customers: Need to know if the project is meeting their requirements, what are the financial plans and what time is invested in the project.
- Future Developers: Should know the basic assumption and plan for the project.

1.3 Scope

This document provides information to the intended audience about overall project which includes project prospective, roles, responsibilities, assumptions, constraints, activity and financial plan, deliverables, deadlines and the potential risks.

Technical or design aspect of the project are out of scope of this document.

1.4 Definitions and acronyms

1.4.1 Definitions

Keyword	Definitions
MySql	An Open Source database
OpenProj	Open Source alternative for Microsoft Project
Hibernate	Hibernate an open source Java persistence framework
Apache Struts 2	Open-source framework for creating Java web applications

1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
MOM	Minutes of Meeting
MDH	Mälardalen University, Vasteras, Sweden
JDK	Java Development Kit
IDE	Integrated Development Environment
VOIP	Voice over IP
TMA	Transport Main Application
TUA	Transport Unit Application
FER	Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia

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1.5 References

- Score competition: <http://score-contest.org/2011/>
- Project details: <http://score-contest.org/2011/projects/DiNittoRossi.Transport4You.pdf>
- Course details: <http://www.fer.hr/rasip/dsd>

2. Organization

2.1 Project management

Gaurav Kushwaha will act as Project leader and Dajan Zvekić as team leader. Both are responsible for the project management and will make sure that the project is heading in the right direction, meeting all the deadlines.

2.2 Project group

Name	Initials	Responsibility (roles)
Dajan Zvekić	DZ	Development Manager, Testing
Dino Bartošak	DB	Test manager, development
Gaurav Kushwaha	GK	Design, Development, Testing
Mahdi Sarabi	MS	Integration Manager
Muhammad Anwar Islam	MA	Design, Development
Toni Pivčević	TP	Design, SVN Manager
Vengal Rao Pachava	VR	Document Manager, Design

These are the main responsibilities of the members, but some roles may be changed in future, if needed.

2.3 Supervisor

Aneta Vulgarakis (MDH),

2.4 Customer

Elisabetta Di Nitto and Matteo Rossi

2.5 Others

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

3. Assumptions and constraints

3.1 Technological

Development of the project would be done on Windows XP/Visa/Win 7/Ubuntu

- Technology used in the project
 - Java
 - Apache Struts 2
 - JPA/Hibernate
 - MySql

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- Tools used in the project
 - Microsoft Word
 - Microsoft Excel
 - OpenProj
 - Subversion

3.2 Environmental

Apache Tomcat Server along with Apache Struts 2 will be installed on the web component development machines

JDK and Eclipse IDE would be installed for developing backend and MTU component.

JPA/Hibernate framework will be used for persistence.

Subversion will be used for sharing source code of the project.

3.3 Interpersonal

Good communication is needed across the team and other stakeholders, so communication will happen in all directions. For communication in the team we will be using emails, mailing lists, conference calls, instant messaging, discussion forum etc. to minimize chances of miscommunication. Informal meetings are allowed to create a bonding between the team members and to gain technical knowledge. We all came from different cultures, so it will also help us to know about another culture.

Members will respect each other's dignity.

3.4 Work distribution

Work is distributed among team members as discussed in Section 2.2.

Responsibility is assigned to an individual after carefully analyzing his experience and preferences. Discussions were carried out with the team before assigning task to an individual. Work would be distributed equally among team members and we will make sure that any part of the project should be carried out by at least two members, so that we won't face crisis if a team member leaves project in between.

Responsibilities mentioned above may change in future to meet goal, if needed.

3.5 Causal relationships

Team members are encouraged for informal communication to strengthen the bond between them. They may propose their ideas, raise concerns, perform discussions and let the team know if they have any issues. A happy team can perform better.

3.6 Time

Deadlines are very critical for the successful completion of the project. Every team member will respect deadlines and will try to complete his work within the stipulated time.

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4. Deliverables

To	Output	Planned week	Promised week	Late +/-	Delivered week	Rem
All Stakeholders	Project plan document	39	39	0	39	
All Stakeholders	Requirements Definition document	39	39	0	39	
All Stakeholders	Design Description document	40	40	0	40	
Team Members	Project Policies	40	40	-1	39	
All Stakeholders	Acceptance test plan	49	49	0	49	
All Stakeholders	Test report	2	2	0	2	
All Stakeholders	Final Project Report	2	2	0	2	
All Stakeholders	Final versions of all documents	2	2	0	2	
All Stakeholders	Technical Documents	2	2	0	2	
All Stakeholders	User Manual	2	2	0	2	
All Stakeholders	Installation Manual	2	2	0	2	
All Stakeholders	Final Product	2	2	0	2	

4.1.1 Remarks

Remark Id	Description

5. Inputs

From	Required item	Planned week	Promised week	Late +/-	Delivered week	Rem
Customer	Project proposal	37	37	0	37	
	SVN Information	38	38	0	38	

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5.1.1 Remarks

Remark Id	Description

6. Project risks

Possibility	Risk	Preventive action
High	Time shortage	Weekly report to check status
High	Technical Competency	Cooperative learning within the team
Medium	Member Leaving the team	Backup member and proper documentation of work
Low	Database Server Crash	Regular backup of database.
Low	SVN Server Crash	Regular backup at safe location
Low	Miscommunication	All main communication and conclusion, also MOM's are properly documented and circulated to each member.

7. Communication

Language:

All the formal communication has to be done in English Language. Members may use any language for informal discussions but all the conclusions must be carried out in English language and the report should be posted at designated location in proper format.

Synchronous communication:

For synchronous communication for discussions and solving problems teams will be using Skype for conference calls and instant messaging. After the meeting, MOM will be uploaded on the fer.hr website

Asynchronous Communication

For asynchronous communication between the team members will be mostly done by sending email either to individual or to all members using mailing list.

Repository on FER site

A temporary directory is created, under the project, on the fer.hr site and will be used for sharing documents, files, doing discussions and publishing news. Google docs may also be used for sharing documents and files.

Subversion

A Subversion repository is also managed, and will be used for sharing project code and

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documents.

8. Configuration management

- Methodology Used
 - Agile-Scrum
- Technology used in the project
 - Java
 - Apache Struts 2
 - JPA/Hibernate
 - MySql
- Tools used in the project
 - Microsoft Word
 - Microsoft Excel
 - OpenProj
 - Subversion

9. Project plan

9.1 Time schedule

Id	Milestone Description	Responsible Dept./Initials	Finished week				Metr.	Rem.
			Plan	Forecast		Actual		
				Week	+/-			
PP001	Project Plan	GK	39	39	0	39		
PP002	Requirement Plan	TP,DZ	39	39	0	39		
PP003	Design Plan	TP, GK	40	40	0	40		
PP004	Project Policies	DB,DZ	40	39	-1	39		
PP005	System Architecture	DZ, DB,TP,GK	42	42	0	42		
PP006	TMA Component	DZ,DB,TP	46	50	0	50		
PP007	TUA Component	DZ,DB,TP	46	46	-1	45		
PP008	Web Component	GK,DB	46	50	2	52		TS001
PP009	Acceptance Testing	DB,DZ,GK	49	51	0	51		
PP010	Project Report	GK,DZ	52	52	0	52		
PP011	Final Presentation	All	50	50	0	50		
PP012	Product manuals	DZ,TP,DB	51	02	0	2		
PP013	Final Product	All	50	02	0	2		

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9.1.1 Remarks

Remark Id	Description
TS001	New version of web component development to support internationalization feature.

9.2 Activity plan

Weeks →	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Requirement gathering	x	x													
Requirement Analysis		x	x												
Architecture Design			x	x	x										
Product Implementation			x	x	x	x	x	x	x						
Unit Testing				x	x	x	x	x	x						
Prototype						x		x							
System and Alfa Testing									x	x	x	x			
Final Product												x	x		
Final Report									x	x	x	x			
Final Presentation													x	x	

9.3 Financial Plan

Activity	Volume (days)	Cost	Rem.
Requirement gathering and analysis	20*5*20	2000 Euros	ID 001
System Design	20*5*20	2000 Euros	ID 001
Implementation	70*7*20	9800 Euros	ID 001
Testing	28*3*20	1680 Euros	ID 001
Documentation	20*5*20	2000 Euros	ID 001
Miscellaneous	NA	1100 Euros	

Planned effort (man-days)	Man-day cost	Planned project cost (100%)
874	20 Euros	17480+1100 (misc)= 17580 Euros

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9.3.1 *Remarks*

Remark Id	Description
ID 001	4 hours per day is assumed