

QR Marks the Spot@MDH	Version: 1.0
Project Description	Date: 2009-10-02

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Revision History

Date	Version	Description	Author
2009-10-02	1.0	Initial Draft	Sriram Sundar Rajan, Soumya Kanti Chakraborty

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Table of Contents

1. Introduction.....	4
1.1 Purpose of this document.....	4
1.2 Intended Audience.....	4
1.3 Scope	4
1.4 Definitions and acronyms	4
1.4.1 Definitions	4
1.4.2 Acronyms and abbreviations.....	4
1.5 References.....	4
2. Organization.....	4
2.1 Project management	4
2.2 Project group.....	5
2.3 Steering group.....	5
2.4 Customer.....	5
2.5 Others	5
3. Assumptions and constraints.....	5
3.1 Technological.....	5
3.2 Environmental	5
3.3 Interpersonal	5
3.4 Work distribution	6
3.5 Casual relationships.....	6
3.6 Time	6
4. Deliverables	6
4.1.1 Remarks.....	7
5. Inputs.....	7
5.1.1 Remarks.....	7
6. Project risks.....	8
7. Communication	9
8. Configuration management.....	9
9. Project plan	9
9.1 Time schedule	9
9.1.1 Remarks.....	10
9.2 Activity plan.....	10
9.3 Financial Plan.....	10
9.3.1 Remarks.....	11

1. Introduction

1.1 Purpose of this document

The purpose of this document is to communicate the high level project plan to all the stakeholders of the project.

1.2 Intended Audience

The document is intended for the customer, steering team and the project team. It provides details of project structure and time-lines.

1.3 Scope

The document provides details about the project organization, milestones, risks and mitigation plans and overall project plan.

1.4 Definitions and acronyms

1.4.1 Definitions

Keyword	Definitions

1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
MDH	Mälardalen University, Vasteras, Sweden
QR	Quick Response
GPS	Global Positioning System
PHP	Hypertext Preprocessor
MySQL	My Structured Query Language
MOM	Minutes of Meeting
DSD	Distributed Software Development
LAMP	Linux Apache MySQL PHP
FER	Faculty of Electrical Engineering and Computing, Zagreb, Croatia

1.5 References

2. Organization

2.1 Project management

Project Coordinator – Marin Orlić

Project Manager – Sriram Sundar Rajan

Team Lead – Soumya Kanti Chakraborty

2.2 Project group

Name	Initials	Responsibility (roles)
Sriram Sundar Rajan	SSR	Project Manager
Soumya Kanti Chakraborty	SKC	Team lead , SVN Co-ordinator
Muhammad Umair Zahid	MUZ	Web Developer
Haroon Rasheed	HR	Testing and Documentation
Muhammad Atif Javed	MAJ	Database Design , Performance Optimization
Muhammad Siblee Islam	MSI	Web Developer

2.3 Steering group

Mario Žagar and Marin Orlić.

2.4 Customer

Mario Žagar and Marin Orlić. Both Steering group and Customers are same for the project because it is an internal project.

2.5 Others

Ivica Crnkovic

3. Assumptions and constraints

3.1 Technological

The Website will be developed with the help of following:

Technologies:

- I. PHP
- II. MySQL
- III. QR Reader
- IV. Google Maps API

Framework:

- I. CakePHP (Object oriented MVC framework for PHP language)
- II. JQuery (Framework for using Java Script and AJAX)

3.2 Environmental

Environment considerations consist of:-

- LAMP.

3.3 Interpersonal

- Effective communication, Constructive criticism, quality feedback is expected from all the team members for successful completion of the project.
- Communication with Steering group and the team should be organized once in a week to voice concerns, evaluate risks and track progress.

- The team consists of members from four different countries (including the project coordinator), acknowledging and coping up with cultural differences is essential to project success.
- English is the preferred language of communication.

3.4 Work distribution

Work is divided into various modules and at least two team members will be in charge of each deliverable.

3.5 Causal relationships

- I. Google Maps : To identify the bike location.
- II. QR Reader : To read the QR Code in the bike.

3.6 Time

Time is a very important factor to be taken in consideration. The deadlines are strict and developing a quality product within the fixed deadline is a huge responsibility and challenge. The team is organized into groups of two to handle important modules and team members are assigned well defined roles and responsibilities.

4. Deliverables

To	Output	Planned week	Promised week	Late +/-	Delivered week	Rem
Project Manager	Week Report from individual team members	W38(2009) – W02(2010)				1
Steering group, Project Team members	Summary Week Report	W38(2009) – W02(2010)				2
Steering group, Project Team members	Minutes of Meeting	W38(2009) – W02(2010)				3
Steering group, Project Team members	Technical Documents, Project policies	W38(2009) – W02(2010)				3
Steering group, Project Team members	Project Vision Document	W38(2009)				
Steering group, Project Team members	Project Plan Document	W39(2009)				
Steering group, Project Team members	Requirements Definition document	W39(2009)				
Steering group, Project Team members	Design Description Document	W40(2009)				
Steering group, Project Team members	Acceptance Test Plan	W49(2009)				

Steering group, Project Team members	Test Report	W02(2010)				
Customers, Steering group, Project Team members	Final Project Report, Final versions of all project documents	W02(2010)				
Customers, Steering group, Project Team members	Final Product (Installation, Source Codes)	W02(2010)				

4.1.1 Remarks

Remark Id	Description
1	Starting from 38 th Week 2009 to 2 nd week 2010, every week , the team members should send the weekly report to Project manager before Monday 12:00 PM
2	Starting from 38 th Week 2009 to 2 nd week 2010, every week there will be submission of Weekly Summary report
3	Starting from 38 th Week 2009 to 2 nd week 2010, these documents will be published as and when they are implemented upon.

5. Inputs

From	Required item	Planned week	Promised week	Late +/-	Delivered week	Rem

6. Project risks

Possibility	Risk	Preventive action
High	Software fails to address the core purpose	Misunderstandings might occur as the customer is in a different location Constant Dialogue with the project coordinator to ensure that the software that is developed is inline with the project vision.
High	Choice of inappropriate technology	Since each project member has a different technical background and skill set, it was difficult to agree on a common technology and platform. After taking inputs from the project coordinator and a detailed discussion with the team it was

		decided to leverage existing knowledge to maximize output and minimize risk.
High	Problems in Integration of the modules	Rigorous testing should be done as the project involves integration of QR reader and Google Maps API. Develop prototypes to integrate the website with other services as a proof of concept.
Medium	Communication Issues	As because the project coordinator and the team members are in different geographical locations, proper coordination needs to be maintained. Google groups and other collaboration tools are used for this purpose.
Low	Any member leaving the team	Module ownership is taken care by at least two members to avoid over-reliance of an individual and be better prepared in case of an unexpected situation.
Low	System Failure or Server crash	Perform daily backups and perform commits to the code on the SVN regularly.

7. Communication

Due to project development team working at MDH and the project coordinator at FER, it is very important to maintain a structural coalition among the two using effective ways of synchronous and asynchronous communication techniques. We are using the below given collaboration tools for synchronous and asynchronous communications:-

- 1) **Google Groups** – Already prepared a Google group ([QR Marks the Spot](#)) to communicate between the team members and also the project coordinator. All the required files are uploaded in the Google groups.
- 2) **Google Docs and Google Poll** – Google Docs helps to share a document on the Web and helps all the team members to edit and contribute to the document simultaneously. Google polls are important for getting suggestions and feedback from the team members on important issues.
- 3) **Skype** – Skype chat and conference are primarily used to connect with the Project coordinator and every member of the team. Skype chat archive feature can always be used to refer to older meetings and chat leaves a written trace..
- 4) **Email** – All the important decisions and official meeting outcomes are sent via email.

All the documents and presentations should be prepared in English Language. MOM's and other project related important documents are made available on the DSD homepage for the project and larger revision of all relevant document will be updated in the DSD website.

8. Configuration management

The configuration management of the project will be handled by using the version control tool Subversion (SVN) which helps to manage different versions of the code.

9. Project plan

9.1 Time schedule

Id	Milestone Description	Responsible Dept./Initials	Finished week			Metr.	Rem.
			Plan	Forecast			
				Week	+/-		
M001	Project Plan	SSR/SKC	W38				
M002	Requirements Definition	SSR/SKC	W39				
M003	Class Design	MUZ	W41				
M004	Database Design	MSI	W41				
M005	UI Design	MAJ/SKC	W41				
M006	QR Code Processing	SKC	W43				
M007	UI Development	MUZ	W46				
M008	Core Logic	MSI/MAJ	W47				
M009	Google Maps Integration	SSR	W47				
M010	Search module Implementation	MSI	W48				
M011	Testing	HR	W01				
M012	Documentation	HR/SKC	W02				

9.2 Activity plan

Activity	w38	w39	w40	w41	w42	w43	w44	w45	w46	w47	w48	w49	w50	w51	w52	w01	w02
Project Plan	█																
Requirements Definition	█	█															
Class Design			█	█			█										
Database Design			█	█			█										
UI Design			█	█			█										
QR Code Processing					█	█											
UI Development					█	█	█	█	█	█	█	█	█				
Core Logic					█	█	█	█	█	█	█	█	█				
Google Maps Integration								█	█	█							
Search module Implementation										█	█						
Testing						█		█	█			█	█	█	█	█	█
Documentation	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

9.3 Financial Plan

Activity	Volume (days)	Cost	Rem.
Project Plan	6	1800\$	

Requirements Definition	6	1800\$	
Class Design	5	1500\$	
Database Design	6	1800\$	
UI Design	6	1800\$	
QR Code Processing	6	1800\$	
UI Development	15	4500\$	
Core Logic	18	5400\$	
Google Maps Integration	6	1800\$	
Search module Implementation	5	1500\$	
Testing	15	4500\$	
Documentation	20	6000\$	

Planned effort (man-days)	Man-day cost	Planned project cost (100%)
114	300\$	34200\$