Software Project Management Plan

1. Introduction

This introduction provides background information for the rest of the document. It briefly describes the project, the client deliverables, the project milestones, and expected document changes.

I. Project overview

This project is to create a prototype Ambulance Dispatch System. Calling 911 and asking for the ambulance service would connect the caller to a dispatcher (also called dispatch controller) who feeds the information s/he receives from the caller into the system. The system would allocate and mobilize a suitable ambulance within 3 minutes, transmit details to the selected vehicle, and track and monitor actual performance and position. An exception message shall be generated if no free ambulance is available for at least 11 minutes. The system would show the location of each patient and the nearest three ambulances. [Ref 2]

II. Project deliverables

1. Preliminary Project Plan	2007.06.06
2. Requirements Specification	2007.06.13
3. Analysis [Object model, Dynamic model, and User interface]	2007.06.20
4. Architecture Specification	2007.07.02
5. Component/Object Specification	2007.07.11
6. Source Code	2007.07.18 - 2007.07.23
7. Test Plan	2007.07.18 - 2007.07.23
8. Final Product w/ Demo	2007.07.18 - 2007.07.23

III. Evolution of this document

This document will be updated as the project progresses. Updates should be expected in the following sections:

i. ***References*** - updated as necessary
ii. ***Definitions, acronyms, and abbreviations*** - updated as necessary
iii. ***Organizational Structure*** will be updated as the team leaders are assigned for each phase.
iv. ***Technical Process -*** this section will be revised appropriately as the requirements and design decisions become clearer
v. ***Schedule –*** as the project progresses, the schedule will be updated accordingly

Revision History

Revision	Date	Updated By	Update Comments
0.1	2007.06.04	Scot Robinson	First Draft
0.2	2007.06.19	Amit Nimse	

IV. References

i. Team Website www.utdallas.edu/~mas027000
ii. Project Scope http://www.utdallas.edu/~chung/CS6354/Project.doc
iii. Course Home Page http://www.utdallas.edu/~chung/CS6354/
iv. Case Studies
1. http://www.utdallas.edu/~chung/SE3354Honors/Dalcher--Disaster_in_London.The_LAS_case_study.pdf
2. http://www.utdallas.edu/~chung/SE3354Honors/Finkelstein--A_Comedy_of_Errors--the_London_Ambulance_Service_case_study.pdf
3. http://www.utdallas.edu/~chung/SE3354Honors/Kramer--Succeedings_of_the_8th_International.pdf
4. http://www.utdallas.edu/~chung/SE3354Honors/South_West_Thames--Report_of_the_Inquiry_Into_The_London_Ambulance_Service.pdf

V. Definitions, acronyms, and abbreviations

i. UML – Unified Modeling Language

2. Project organization

I. Process model

The process used for this project will be a Hybrid Waterfall-Yoyo model such that each stage of the waterfall allows us to update the project plan and other deliverables for missing areas or correctness.
We will use UML tools to create the system model and the subsequent breakdown of the design. For this project, we will be using UML version 1.x.

II. Organizational structure

Team Members –

i. Muhammad Shamim
ii. Wenjian Yue (Justin)
iii. Meghna Atluri
iv. Deepak Shenoy
v. Sama Malik
vi. Scot Robinson
vii. Amit Nimse
viii. Shasank Bhandari
ix. Anitha Ramalingam

Week/Deliverable	Team Leader	Deliverable Description
1	Muhammad Shamim	Project Plan
2	Amit Nimse	Requirements Specification
3	Meghna Atluri	Analysis
4		Architecture Spec
5		Component/Object Specification
6		Source Code
7		Test Plan
8		Final Deliverable

III. Organizational boundaries and interfaces

Team leaders during each phase will be responsible for coordinating team meetings, updates, communications, and team deliverables

IV. Project responsibilities

For primary responsibilities per phase, please refer to section 2.2. Ultimately the entire project team is responsible for the successful delivery of the product.
Team member assignments per deliverable according to expertise

1. Project Plan – Entire Team
2. Requirements Specification – TBD
3. Analysis – TBD
4. Architecture Spec – TBD
5. Component/Object Specification – TBD
6. Source Code – TBD
7. Test Plan – TBD
8. Final Deliverable – Entire Team

3. Managerial process

I. Management objectives and priorities

The objective of the project is to develop an ambulance dispatch system within allocated budget, time, and specified quality. The project is highly prioritized due to high benefits to the organization. The benefits will be further discussed in CBA (Cost benefit Analysis).

II. Assumptions, dependencies, and constraint

The project assumptions are as follows

i. Team of 8 resources
ii. Equipment and software availability
iii. Approval on funding
iv. Organized traffic system

The project dependencies are as follows

v. Ambulance dispatch locations in proximate distance
vi. Availability of subject matter expertise in ambulance dispatch system.
vii. The project constraints are as follows
viii. Time
ix. Budget
x. Man hours
xi. Availability of existing software

III. Risk management

i. Market risk
ii. Financial risk
iii. Technology risk
iv. People risk
v. Structure/process risk

IV. Monitoring and controlling mechanisms

i. Weekly project status meetings
ii. Shared document repository
iii. Project tracking by MS project plan
iv. Tracking utilizing baselines in MS project

4. Technical process

I. Methods, tools, and techniques

The project will be implemented utilizing Water fall methodology, and tools such as

JSP, Visio, Rational Rose, QTP, and Load Runner will be utilized. The object oriented analysis technique will be used to successfully complete the project.

II. Software documentation

i. Documentation such as project charter, Business Requirement Document, Functional Specification document, Cost Benefit Analysis, Technical Specification document, detail design document, 2X2 Metrics, Test Plan, Implementation Plan, and Benefit Realization document.

III. Project support functions

i. All project support documents will be completed in applicable phases

5. Work elements, schedule, and budget

I. The project is budgeted for 8 resources, and equipments needed to complete analysis, implementation, and test the application

II. The project lead will be rotated for each phase out of 7 team members.

III. The document for all phases will be revised in subsequent phases if applicable