**1. Introduction**  
   1.1 Project overview

The Software Project Management Plan details the overview, organization, and Managerial and Technical process associated to our search engine. Our search engine is a modest, easy-to-use, but also quite powerful and speedy web-based search engine. It is developed to index various sites so it can be found anytime within instants.

   1.2 Project deliverables

a) Deliverable I: Preliminary Project Plan

b) Deliverable II: Requirements Elicitation

c) Deliverable III: Requirements Analysis

d) Deliverable IV: Architectural Design

e) Deliverable V: Object/Component specification

f)   Deliverable VI: Coding

g) Deliverable VII: Testing

h)     Deliverable VIII: User documentation

   1.3 Evolution of this document

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| --- | --- | --- | --- |
| **Version** | **Author(s)** | **Description** | **Date** |
| Draft | TBD | Beginning draft made for sharing and commenting | 08/26/2017 |
| Preliminary | TBD | Following draft combining first remarks, given for final review | 08/28/2017 |
| Final | TBD | A complete draft, which is revise-welcome | 08/30/2017 |
| Revision 1 | TBD | Revised draft, updated version of the complete draft | 08/31/2017 |

   1.4 References

* Lawrence Chung, Advanced Software Engineering syllabus, CS 6362 section 001, Fall 2017. Retrieved August 26, 2017, from [http://www.utdallas.edu/~chung/CS63](http://www.utdallas.edu/~chung/CS6354)62.
* “SPMP template.” SPMP template, Retrieved August 26, 2017, from [http://www.](http://www.utdallas.edu/~chung/CS6354)users.csc.calpoly.edu/~jdalbey/205/Mgmt/SPMP.
* Rajeevalochana, A., Guha, P., Bheemarajaiah, S., Nagaraj, S., Mohan, K., Prabhakar, A., . . . Natarajan, R. (2007, June 5). Ambulance Dispatch System Software Project Management Plan (Working paper). Retrieved August 26, 2017, from Lawrence Chung website: <http://utdallas.edu/~chung/CS6354/CS6354_U07_source/GoE/>
* Bass, B., Jejurkar, S., Perumal, V., Koneru, S., Hashi, A., Azizullah, F., . . . Mummineni, A. (2007, June 6). Ambulance Dispatch System Preliminary Project Plan (Working paper). Retrieved August 26, 2017, from Dr. Lawrence Chung website: http://utdallas.edu/~chung/CS6354/CS6354\_U07\_source/Team\_1/

1.5 Definitions, acronyms, and abbreviations

CSS Cascading Style Sheets

HTML HyperText Markup Language

GUI Graphical User Interface

I/O Input/Output

K.I Keyword Index

PDF Portable Document Format

SEO Search engine optimization

SER Search Engine Results

SEFU Search Engine Friendly URLs

URL Uniform Resource Locator

WCMS Web Content Management System

XML Extensible Markup Language

404 Page Not Found

SE Software Engineering

WLCM WaterFall Life cycle model

**2. Project organization**

2.1 Process model

The formulation of UML diagrams will come according to the design process of the project. Our high-quality UML diagrams will build a solid foundation for the system, and give a clear visual description of the system on hand for use anytime in the development. In our software development processes, We will apply Waterfall model as our primary design process through the stages of planning, analysing, designing, building, testing, implementing and maintaining the software.

2.2 Organizational structure

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2.3 Organizational boundaries and interfaces

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2.4 Project responsibilities

All the team-members will be committed to the development of the project throughout all stages of the project life cycle. Each team member is charged with different tasks according to his strength, and each member is required to work and communicate with other members of the team. The list below details the responsibilities of each team member in the group:

**3. Managerial process**

   3.1 Management objectives and priorities

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   3.2 Assumptions, dependencies, and constraints

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   3.3 Risk management

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   3.4 Monitoring and controlling mechanisms

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**4. Technical process**

4.1 Methods, tools, and techniques

* Methods: ~
* Tools:

The tools we're going to use for the software development and documentation are: JDK, J2EE, eclipse, ANT, Joomla! for programming; MySQL for Database; Word, PowerPoint, for documenting and graphing; Github as our repository; WhatsApp, Outlook for communicating. Windows Server 2000 R2 as our server.

* Techniques: ~

4.2 Software documentation

• Software Project Management Plan

• Software Project Requirements Specification

• Software Project Analysis

• Software Architecture Specification

• Code structure Specification

• Software Test Plan -- Test case and test result

   4.3 Project support functions

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5. Work elements, schedule, and budget

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