**Software Requirements Specification**

**1. Introduction**

**1.1 Purpose**

The purpose of this document is to describe the specifications on the conference management system. It also documents nonfunctional requirements, design constraints and other factors necessary to provide a complete and comprehensive understanding of the system. The intended audience of this document includes the prospective software development team and the potential users of the system.

**1.2 Scope**

The software system to be produced is helping conference organizers to cope with the complexity of the refereeing process, which will be referred to as “Conference Management System” thorough this document.

Conference Management System aims to serve four groups of users – the sponsors, the PC members, the Steering Committee and authors. The purposes of Steering Committee (SC) are the people searches for a location for a conference and it also decides a time frame of the conference. PC members usually consist of the fellow researchers that are well known experts in the research topics of the conference. To form a PC, the members of SC prepare the documents describing a mission and the motivations behind the conference, goals and topics of interest. These documents are sent to the selected researchers together with an invitation to participate in the conference as PC members. Authors submit the research papers. In order to satisfy all potential customers and to effectively manage its functions, Conference Management System is developed into four modules, each of which is an independent but correlated subsystem.

* Users Management Subsystem aims to manage profiles of all users the system.
* Resource Management Subsystem aims to manage profiles of all users of the system.
* Communication Management Subsystem aims to manage the communication among all stakeholders.
* Documents Managements Subsystem aims to manage all the electronic documents such like text files, Word documents, Excel spread sheets, image, video, audio files a lot of information about PC members, industrial sponsors, contents of conference Web sites, conference participants, their contributions, etc.
* Activities Management Subsystem aims to manage all activities.
* Configuration Management Subsystem aims to manage the configuration settings and operations.

Although conference management system is built to assist the conferences more convenient and efficient, it is impossible to replace a CD store with this system. Some **limitations**:

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**1.3 Overview**

The rest of this document is divided into two main sections:

* The Overall Description (section 2) describes the general factors that affect the system and its requirements.
* The Specific Requirements (section 3) contains all software requirements that the system must meet in order to satisfy customer’s needs.

2. Overall Description

**2.1 Product perspective**

In the last few years experts and sponsors organize at least two conferences per year. Every time the conference was held complicated and the past experiences indicate that appropriate application of information technologies would simplify this process and it would reduce the amounts of work, time spent, and the costs involved.

Based on the truth, it is necessary to build a software to help all the stakeholders get benefits from previous huge amounts of works and unnecessary time or cost spending. Conference management system will assist this and achieve the goals.

**2.1.1 System Interfaces**

The Conference Management System to be developed is an application that can be integrated to an organization’s Intranet or deployed on the Internet.

The *Clients* can simultaneously log into the system from any PC that supports Internet services and then interact with the system for their purposes, such as *list of the latest events*, *submission of reviews* and *discussion of reviewing of papers*.

**2.1.2 User Interfaces**

The user interfaces provided to client machines must be GUI and must be accessible through any web browser such as IE, Mozilla, FireFox, Opera etc. conference management system administrators also connect to the system via the client like other users but have higher access right to the system, which is captured in their own user interface.

**2.1.3 Hardware Interfaces**

All components must be able to execute on a personal computer.

**2.1.4 Software Interfaces**

2.1.4.1 External System Interface:

* The system is able to import existing user accounts from other system.
* The system is able to import existing resource profiles from other system.

2.1.4.2 User Interface:

* The user interact with the system through the client application and the web browser.
* The system supports Mac OS and Windows 2000 or above.

**2.1.5 Communication Interfaces**

* The client machines must communicate with the Web Server over TCP/IP connection.
* The Web Server and the Database Server are located on different servers.

**2.1.6 Memory Constraints**

* The client machine must be able to operate within 64MB minimum (including memory for browser).
* The Web Server and the Database Server must be able to operate within 128MB minimum.

**2.1.7 Operations**

Conference management system must be easy for all users to use e.g. no specific information or skills (except knowledge on how to access the Internet via Web browser) must be required to use the tool.

The Web Server installation and maintenance should be simple enough for a network administrator to perform and should not require any special technical skills from the administrator.

The software should able to contain backup and recovery operations must be specified in case of network failure, out of power etc.

**2.2 Product Functions**

The two main functions of conference management system are:

* 1.
* 2

For SC, conference management system helps them to manage stores resources through the following main functions:

* 1
* 2
* 3

For PC members, conference management system helps them to use the application through the following main functions:

* 1
* 2

Additionally, conference management system is controlled by administrators through the following main functions:

* 1
* 2

All functionalities of the system are built based on the conference needs can make all activities and arrangements carried out by the all users easier and more convenient.

**2.3 User characteristics**

The users of conference management system include the sponsors, the PC members, the Steering Committee and authors.

* Administrators have strong knowledge on networks and web applications to be able to install and maintain Online CD Services system.
* Sellers are knowledgeable of the CD stores activities and have solid understanding of all tasks, processes and resources they are working with.
* Customers are people who have enough understanding on the use of Internet to use the system.

**2.4 Constraints**   
The system should strictly obey and satisfy the following constraints:

* Authentication security: the system should enforce user authentication security.
* Access control: the system must provide appropriate access right and user interface to each type of user.
* Backup and recovery: the backup and recovery of all the system’s database must be easy to perform to prevent databases from corruption and loss risks.
* Integrity control: since the system consists of many databases that are correlated with each other, integrity among these databases must be strictly maintained.

**2.5 Assumptions and dependencies**

The following assumptions and dependencies for the system are stated:

* All participants must book their accommodation in one of the available hotels.
* Because the conferences have to be handled with a lot of electronic documents, all participants should have a standard email address.