Personal Finance Management Software

Supplementary Specification

Version 1.0

Revision History

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Supplementary Specification

# Introduction

The Supplementary Specification provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this Supplementary Specification. It also captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

* Legal and regulatory requirements, including application standards.
* Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.
* Other requirements such as operating systems and environments, compatibility requirements, and design constraints.

## Purpose

The purpose of the Supplementary Specification is to capture the system requirements that are not readily captured in the use cases of the use-case model. It includes requirements such as legal and regulatory requirements, application standards, quality attributes of the system to be built (usability, reliability, performance, and supportability requirements) and other requirements such as operating systems and environment, compatibility requirements and design constraint.

## Scope

This Supplementary Specification applies to the Personal Finance Management Software. The team will develop a customizable, decentralized system that allows individuals or organizations; to easily, efficiently, and precisely schedule meetings in accordance with practical limitations of virtual and real-world meetings. The scope of this document does include describing fully what the software system will do, but on how it will do, by describing nonfunctional requirements such as security, reliability, extensibility, and performance by using SIG.

## Definitions, Acronyms, and Abbreviations

Active participant: A user, who is also an attendee, whose role in the meeting requires them perform an action during the meeting (speaker, demo driver, etc). This user may also be asked provide requirements for equipment.

Administrator: is a privileged user who is responsible for managing user accounts, and managing resources (ex. adding or removing users, rooms, equipment, etc).

GUI: Graphical User Interface.

SIG: Softgoal Interdependency Graphs

## References

This subsection provides a complete list of all documents referenced elsewhere in the Supplementary Specification.

[1] L. Chung, “Non-functional Requirements,” Aug. 08. [Online]. Available: http://www.utdallas.edu/~chung/RE/NFR-18.pdf. [Last Accessed: Dec 03, 08]

[2] S. Supakkul, “Non-Functional Requirements Modeling Tool,” Jan. 20, 2008. [Online]. Available: http://www.utdallas.edu/~supakkul/tools/softgoal-profile/. [Last Accessed: Dec 03, 08]

[3] J. Hork, “i\* Template for Visio,” Jul. 10, 2006. [Online]. Available: http://istar.rwth-aachen.de/tiki-index.php?page\_ref\_id=42. [Last Accessed: Dec 03, 08]

[4] “GNU, Operating System,” Aug. 26, 2008. [Online]. Available: http://www.gnu.org/copyleft/gpl.html. [Last Accessed: Dec 03, 08]

## Overview

#### The supplementary specification document is composed of different section including Functionality, Security, Reliability, Performance, Supportability, Design Constraints, Online User Documentation and Help System Requirements, Purchased Components, Licensing Requirements, Legal, Copyright, and Other Notices, Applicable Standards.

#### The Functionality Requirements describes requirements of the systems which are expressed in the natural language style. This section will be organized by features or by users or organization by subsystem.

#### Security section includes all of the requirements that affect security.

#### Reliability section describes about availability (percentage of time available, hours of use, and maintenance access), mean time between failures, how long is the system allowed to be out of operation after it has failed, accuracy, maximum bugs, defect rate.

#### Performance section uses FIG figures to describe the performance characteristics of the system.

#### Extensibility section indicates any requirements such as scalability and customizability.

#### Design Constraints indicates any design constraints on the system being built. Such as software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints,

#### Online user documentation describes the requirements for on-line user documentation and help systems requirements.

#### Purchased Components describes any purchased components to be used with the system , any applicable licensing or usage restrictions, and any associated compatibility/interoperability or interface standards.

#### Licensing Requirements, Legal, Copyright, and Other Notices section describes any necessary legal disclaimers, warranties, copyright notices, patent notice, wordmark, trademark, or logo compliance issues for the software.

#### Applicable Standards section describes by reference any applicable standards and the specific sections of any such standards that apply to the system being described.

# Functionality

The system shall allow the user to register for an account from any page in the system.

The system shall allow the user to perform any customer function, not including business customer functions, without registering for an account or logging into the system.

The system shall record auditing information for all products that are provided to a customer on the website, which includes amount, price, and taxes collected associated with the part number of the product.

# Usability

The user must be able to understand and navigate freely throughout the interface. To do so, the interface will use simple and natural dialogue to explain products and product features and clearly marked icons will allow the user to navigate openly through the windows. In order to offer any assistance the user might require when operating the Accountant System, call support and documentation, FAQ, have been implemented via functional requirements.

# Reliability

The system must be running and able to perform all functions 98% of the time, every day of the week.

# Performance

The system shall support up to 1000 simultaneous users performing any combination of actions in the system at the same time. Indexing will allow for a decreased cost and increase the response time when searching the Accountant System. By being efficient, the best allocation of hardware usage and space will be used.

# Supportability

The system shall provide the means to support multiple languages and currencies.

Each page on the system shall be customizable. This includes the ability to change the header, footer, and logos. In addition, the system’s look and feel shall be customizable using Cascading Style Sheets (CSS).

# Design Constraints

System shall allow the user to perform all functions of the system using the following operating systems: Window, Mac, Linux,…

# Online User Documentation and Help System Requirements

Online support concerning administration issues & user tutorials including “How to” guides and “Tip of the Day” will be available.

Readme files and release notes are to be delivered to the customer in each release.

User guides and Administration guides are to be provided per customer request.

# Purchased Components

All software used to develop the PFMS will comply to the software license agreement.

Microsoft Software Agreement: ASP.NET, Microsoft Windows Server

# Interfaces

## User Interfaces

### All interaction with the PFMS will occur through a GUI interface.

### The PFMS will be accessed through a secure user interface requiring the use of a predetermined login name and password.

### Any unexpected system operation will be announced to the user with an error notice window stating the cause of the error. In the event that a cause can not be readily determined a generic error message will be presented.

### The layout of the web interface will conform to a standard screen resolution of 1024x768.

## Hardware Interfaces

### The PFMS will interact only with the provided web server and database server. Any additional system interaction will be handled directly by the operating system and any other supporting software systems.

## Software Interfaces

### The PFMS will interface with Microsoft SQL Server for database interactions

### The PFMS will utilize Microsoft IIS 6.0 Web Server to deliver HTML content to clients

### The PFMS will access Microsoft Active Directory via the LDAP protocol for user authentication.

### The PFMS will provide support for communication with Microsoft Exchange Servers for email notification and calendar synchronization.

### The PFMS will provide support for database interaction with a third-party property management system.

### The PFMS will provide a standardized API so that third-party programs may access information programmatically from the PFMS system.

## Communications Interfaces

### The ASP.Net framework will provide systems for HTTP and HTTPS interactions with the web server.

# Licensing Requirements

Optional support fee for subscribed users of $15,000 per year will be provided.

# Legal, Copyright, and Other Notices

#### The following are the disclaimers, terms and conditions for use of the PFMS. By using Online Meeting System you are accepting that you are bound by the disclaimers, terms and conditions set forth below.

#### Software will be built with use of Microsoft products and therefore comply with Microsoft Software License. Distribution of any portion of the software is not allowed unless profits are made on behalf of Synergy. All copyright, trademark, and a patent notices that are present in the software must be followed.

# Applicable Standards

All documentation should meet IEEE and RUP standards.

ASP.NET 2.0 and web standards.