
Software Requirements Specification

For

SDMS

Version 1.0

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Revision History

Name	Date	Reason For Changes	Version
Akhil Chopra	02-24-09	First Draft	1.0

1. Introduction

1.1 Purpose

This SRS describes the specifications of the Synergy Distributed Meeting Scheduler System (SDMS).

1.2 Document Conventions

The document focuses on the high priority requirements which will be implemented for the final deliverable

1.3 Intended Audience and Reading Suggestions

The document is intended for requirements engineer, domain expert, developer and project manager. Before reading this document it is highly recommended to read the Vision Document to get an overview of the product.

1.4 Project Scope

The software system SDMS being developed automates the meeting scheduling process giving potential users a powerful tool to schedule and organize meetings.

1.5 References

Team Website <http://www.utdallas.edu/~vxs063000/>

2. Product Description

2.1 Product Features

Product Feature	Description	Priority
Initiate New Meeting	Allows anyone using the system to initiate meetings easily.	High
Accept and Submit Pending Meeting Request	Allows participants to state their choice to meeting dates and also state the dates in which they are unavailable	High
Resolve Conflicts and Propose Date	Allows both meeting initiator and the potential attendees to resolve strong date conflicts and propose amicable meeting dates.	High

View Scheduled Meeting	Allows both meeting initiator and the potential attendees to view upcoming meetings.	High
Updated Notifications	Allows meeting initiator and attendees to have updated information about any changes in the schedules.	High
Location Planning	Allows potential attendees to give equipment choice and subsequently help meeting initiator to decide best possible location.	Low
Transfer Meeting	Allows the initiator to transfer the initiator control to any participant in case the initiator is unable to conduct the meeting.	High
Withdraw Meeting Request	Allows participant to withdraw from already scheduled meeting	Low
View Reminders	Allows participants to receive periodic reminders	Low
Cancel Meeting	Allows initiator to cancel a meeting.	Low

2.2 Operating Environment

The SDMS only requires Apache Server and MySQL to setup which can be easily done using the **XAMPP** which is a free and open source cross-platform web server package, consisting mainly of the Apache HTTP Server, MySQL database.

3. System Features

Only high priorities Use Case are mentioned.

Use Case	Initiate New Meeting
Description	Allows anyone using the system to initiate new meetings.
Actors	Meeting Initiator, Participant
Precondition	User is logged in as a meeting initiator
Post condition	Meeting Initiator sends new meeting request to all participants
Steps	<ol style="list-style-type: none"> 1. The meeting initiator enters the meeting agenda, meeting duration and the proposed meeting date range with a start date and an end date. 2. The meeting initiator also fixes a freeze date. 3. The meeting initiator also marks participant as important or active

Use Case	Accept and Submit Pending Meeting Request
Description	Allows participants to state their choice to meeting dates and also state the dates in which they are unavailable
Actors	Meeting Initiator, Participant
Precondition	User is logged in as a participant
Post condition	All the requested information is submitted to the initiator
Steps	<ol style="list-style-type: none"> 1. The participants view any pending meeting request and state their choices as preference or exclusion sets of dates. Also the participants mention the sessions on each date as Morning, Afternoon, and Evening. 2. The participants can also mention the list of equipment they may need during the meeting

Use Case	Resolve Conflicts and Propose Date
Description	Allows both meeting initiator and the potential attendees to resolve strong date conflicts and propose amicable meeting dates.
Actors	Meeting Initiator, Participant
Precondition	User is logged in as a initiator
Post condition	All the requested information is submitted to the initiator and the participants and a meeting date is proposed
Steps	<ol style="list-style-type: none"> 1. If there is a week conflict then a date covering the most preference sets is proposed as date of meeting. 2. If in the proposed date range no date is found outside the exclusion sets of all the important participants then the initiator is informed about the strong conflict 3. The initiator then: <ol style="list-style-type: none"> a. Extends the date range OR b. Ask participants to add dates to preference sets or remove dates from exclusion set.

Use Case	View Scheduled Meeting
Description	Allows both meeting initiator and the participants to view upcoming meetings.
Actors	Meeting Initiator, Participant
Precondition	User is logged in as a initiator or participant
Post condition	The user is able to view upcoming and already scheduled meetings
Steps	<p>The user is able to view upcoming and already scheduled meetings and all the related information viz:</p> <p>Agenda, Duration ,Date range-Start Date, Date range-End Date ,Participant Status, Preference Set, Exclusion Set Equipment, Scheduled Date, Time and Location</p>

Use Case	Transfer Meeting
Description	Allows the initiator to transfer the initiator control to any participant in case the initiator is unable to conduct the meeting.
Actors	Meeting Initiator, Participant
Precondition	User is logged in as a initiator
Post condition	The meeting ownership is transferred to the selected participant
Steps	The initiator designates a new owner of any selected meeting and submits the information.

Use Case	Updated Notifications
Description	Allows meeting initiator and attendees to have updated information about any changes in the schedules.
Actors	Meeting Initiator, Participant
Precondition	User is logged in as a initiator or as participant
Post condition	Any changes are notified
Steps	The initiator and the participants are informed about any changes in the schedules.

4. Other Nonfunctional Requirements

4.1 Security Requirements

Security was taken as a very serious non functional requirement so that the data and information of each user is protected from visibility and possible alteration by the other users. Thus the SDMS system provides a user account which enables users to enter their respective profile as a meeting initiator or participant using a login id and password mechanism.

Appendix A: Glossary

- SDMS-Synergy Distributed Meeting Scheduler
- Account – Information maintained by the SDMS for each user.
- User – An individual who has created an Account on the SDMS
- Initiator- The user who wants to schedule a meeting based on an agenda and a date range.
- Participant- A potential meeting attendee who has received an invitation from the initiator.
- Freeze Date & Time- A date time & set by the initiator before which the potential attendees should give their preference and exclusion date sets and time sessions and also the date & time before which all the negotiations for conflict resolution will be resolved.
- Active Participants- Potential Meeting Attendees who are invited but whose presence is not absolutely necessary
- Important Participants- Potential Meeting Attendees who are invited and whose presence is absolutely necessary and without them the meeting cannot take place.
- Date Range- the potential range of dates in which a meeting may take place
- Exclusion set- a set of dates on which participants cannot attend the meeting
- Preference set- a set of dates on which participants would prefer the meeting to take place
- Strong Conflict- A strong date conflict is when no date can be found within the date range and outside all exclusion sets.
- Weak Conflict- A weak date conflict is when dates can be found within the date range and outside all exclusion sets, but no date can be found at the intersection of all preference sets.

Appendix B: Analysis Models

Use Case Diagram

SDMS

