

<LLHC>

<Document Sharing System>

**Software Requirements Specification
For <Desktop Platform>**

Version <1.0>

Document Sharing System	Version: <1.0>
Software Requirements Specification	Date: October 19th, 2018
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Revision History

Date	Version	Description	Author
October 19th, 2018	<1.0>	Create software requirement specification	KaiHang Chen HaoRan He YanFeng Lin JinFeng Lin

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Software Requirements Specification

1. Introduction

In this section, the general idea of the software requirement specification document will be described in the following sections, and you will get a brief idea of the entire project.

1.1 Purpose

The purpose of this software requirement specification is to provide a detailed description of the Document Sharing System. It will explain the purposes, features, interfaces of the system, what the system will do, the constraints to consider, and how the system reacts to different inputs.

1.2 Scope

This Document Sharing System will be a desktop application for users to collaborate on the same documents with other group members without causing consistencies.

The system will have three types of users:

- Superuser (SU): The administrator of the system
- Ordinary User (OU): An ordinary user that has been confirmed by the SU
- Guest (GU): Guest user who can apply to be an OU

Each type of user will have different privileges.

1.3 Definitions, Acronyms, and Abbreviations

Terms	Definition
DSS	Document Sharing System
Cloud	Database to store all the documents and all user types. All user can access to it and has different functionality based on the user group.
Taboo words	JSON object which contains list of taboo words maintained by the super user and suggested by guest user(GU).
SU	Superuser(SU), admin of the document system. SU can update the memberships, maintain the list of taboo words, unlock documents, process requests about Ordinary user(OU). They have all the privileges for OU and GU.
OU	Ordinary users(OU), one group of the main users for DSS. They can create documents, invite collaborators(other OUs) to edit, and change permission.
GU	Guest user(GU), another group of the main users for DSS. They can read, retrieve or complains about the open documents and send suggestion to SU about taboo words.

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1.4 References

- Spec_sample.pdf, Sample Specification document
(http://www-cs.engr.cuny.cuny.edu/~csjie/322/spec_sample.pdf)
- Phase 1 Report - Software Requirements & Description by © Weirdoughs™ for Pizza Ordering System Web & Mobile Application
(<https://github.com/ayushyamitabh/PizzaOrderSystem/blob/master/documentation/Weirdoughs%20Phase%201%20Report.pdf>)

1.5 Overview

This introduction section has discussed the purpose and scope of the system, as well as some useful definitions and acronyms. The following chapters of this document will describe the requirements, specifications and other relevant supplemental information.

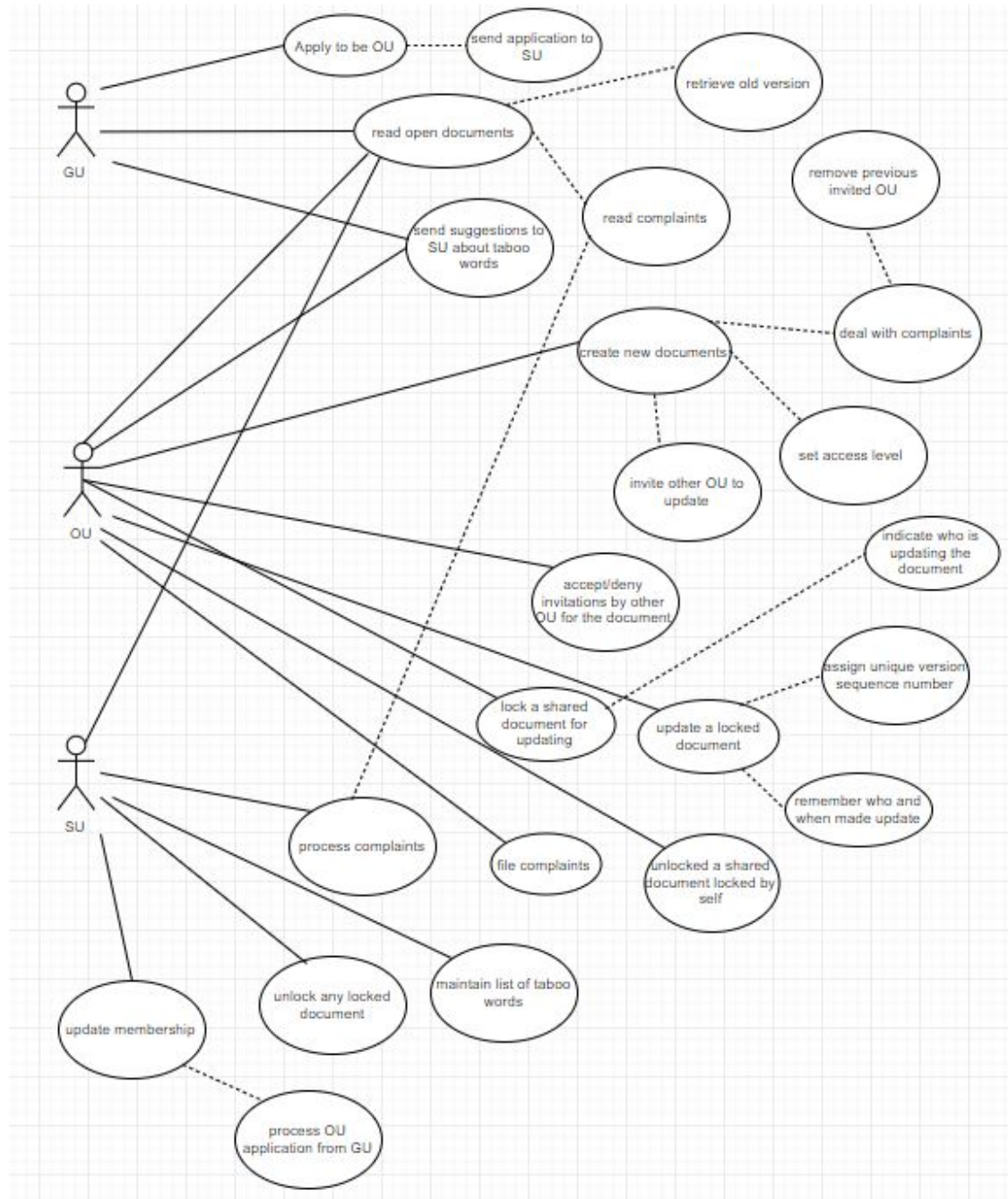
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2. Overall Description

In this section, we will provide a use-case diagram to make our Document Sharing System be more visualize, and easier to understand how our Document Sharing System works. Also by using the Use-Case Model, the correlation of each term will be clearly shown.

2.1 Use-Case Model Survey

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Three type of users:

- Superusers
- Ordinary users
- Guest users

2.2 Assumptions and Dependencies

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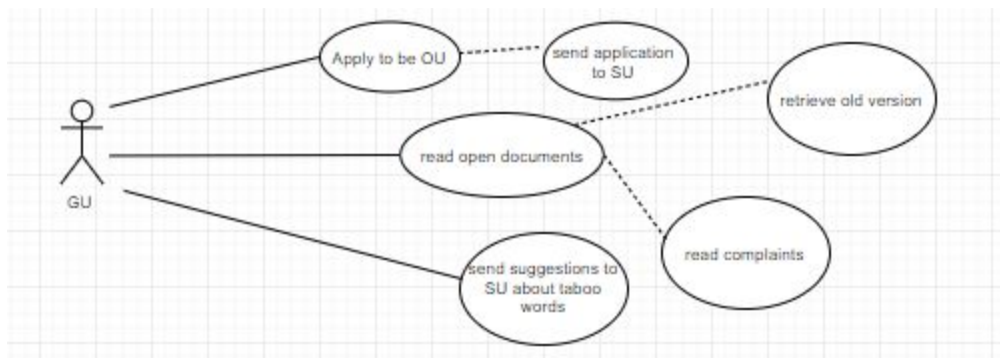
1. The Collaborators doesn't have right to delete the document, and Owner is able to unshare the document to any collaborator at anytime.
2. The invitation from Collaborators need to be approved by the Owner.
3. Internet connecting will be required to access the document sharing system.
4. Users must sign up for account to use the system, email verification will be required.
5. Users' information would be stored carefully into the database and duplication won't be allowed.

3. Specific Requirements

This section will explain the functionality of each component shown in the Document Sharing System Use-Case diagram. This section will explain the functionality of each component shown in the Document Sharing System Use-Case diagram.

3.1 Use-Case Reports

3.1.1 Guest Users



Use Case: Apply to be OU

Description: Guest user can apply to be an Ordinary User(OU) by sending an application to SU.

Use Case: OU Application

Description: Application to be an OU including name/technical interests.

Use Case: Read open documents

Description: Guest users can read open documents, retrieve old versions of the document, and read complaints about the document.

Use Case: Send suggestions

Description: Sends suggestions of taboo words which are then maintained in a list by SU.

3.1.2 Ordinary Users

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Use Case: Read open documents

Description: Ordinary users can read open documents, retrieve old versions of the document, and read complaints about the document.

Use Case: Send suggestions

Description: Sends suggestions of taboo words which are then maintained in a list by SU.

Use Case: Create new documents

Description: Creates a document and becomes the owner of it.

Use Case: Set access level

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Description: The owner can set access levels of the document to make it public, restricted, shared or private.

Use Case: Invite other OU to update

Description: Owner can invite other OU's to update the document.

Use Case: Deal with complaints

Description: Owne can deal with complaints filed by other OUs and remove OUs who were previously invited.

Use Case: Accept/deny invitations by other OU for the document

Description: OU can accept or deny the invitations placed by other OUs for their documents.

Use Case: Update a locked document

Description: Updates a successfully locked document, then assign a unique version sequence number and remember who and when makes the updates.

Use Case: Locked a shared document for updating

Description: Only one OU can lock a document successfully, and system will indicate which OU is updating the document.

Use Case: Unlock a shared document

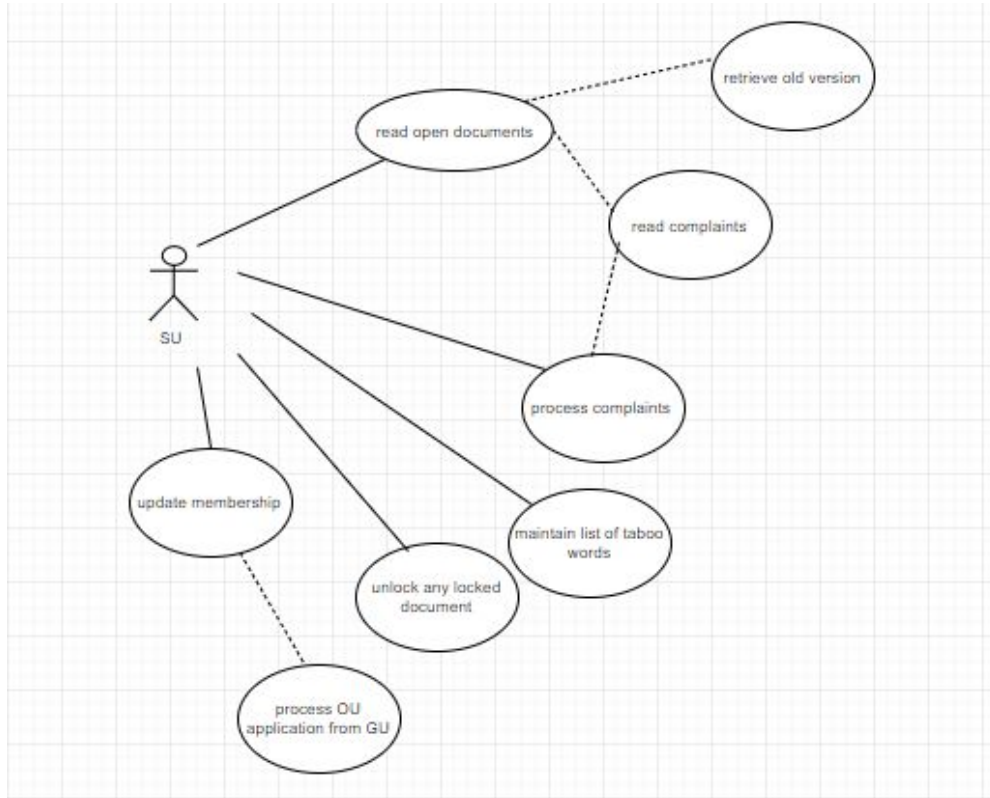
Description: Owner can unlock a shared document that was locked by him/herself.

Use Case: File complaints

Description: Files a complaint to the owner of a document about other OU's updates or to the SU about the owner of the document.

3.1.3 Super Users

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Use Case: Read open documents

Description: Super users can read open documents, retrieve old versions of the document, and read complaints about the document.

Use Case: Process complaints

Description: Process complaints about OU's.

Use Case: Maintain list of taboo words

Description: Any words belonging to the taboo list maintained by the SU are replaced by 'UNK' and the one who uses words from the list will be warned automatically.

Use Case: Unlock any locked document

Description: SU can unlock any locked document.

Use Case: Update membership

Description: Process the OU application from GU and update the user to be an OU.

3.2 Supplementary Requirements

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In this section, all the crucial subfeatures which are not included in the Use-Cases will be listed and described below.

1. Instantaneity - The changes, comments and notes should be updated immediately while the users editing the work.
2. All the document editing features should be builded in system for users' convenience.
3. All the changes should be saved in history and display editor's username, which ables to check back.
4. Able to save the documents on the desktop and load the documents from desktop as well.

4. Supporting Information

The Software Requirements Specification includes:

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The Document Sharing System described above is being developed by the © LLHC™

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