Section 1: Introduction

* 1. Vision Statement

***Develop a web system to support book exchange in CSULA***

* + 1. Software Purpose

***Support student books exchange***

* + 1. Software Scope

***Web based system***

1.1.3 Software Perspective

***none***

* 1. Document conventions and definitions

***βExchange means book exchange in CSULA***

* 1. Intended audience and Reading suggestions

***Familiar with web based system.***

1.4 References

Section 2: 0verall description

2.1 User characteristics

2.2 Operating environment

***Windows***

***Apache***

***PhP***

***MySQL***

2.3 Design and implementation constraints

***The system has to support popular browser, such as chrome.***

2.4 Database considerations

***MySQL, it is free software***

2.5 Assumptions and dependencies

***none***

Section 3: External interface requirements

3.1 Hardware interfaces

***none***

3.2 Software interfaces

***PHP, MySQL, CSS, HTML***

3.3 Communication interfaces

***http protocol***

Section 4: System functional requirements

4.1 System function 1

The system shall have an administrator.

1. ***The administrator shall be able to view the users.***
2. ***The administrator shall be able to delete the users.***
3. ***The administrator shall be able to edit the users.***

4.2 System function 2

***(1) The system shall allow a new user to register to use the system.***

***(2) The system shall allow the user to register by using his/her email address.***

***(3) The system shall allow the user to setup a password***

4.3 System function 3

***(1) The system shall allow user to login the system by using email address and password***

***(2) The system shall verify user’s email address and password in the system***

***(2) The system shall allow user to re-login the system if his/her input email and password are not match in the system.***

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4.n System function n

Section S: Use case model

5.1 Use case diagram

administrator

register

5.2 Use Case Description

5.2.1 Use Case 1

***Administrator can view all the users in the system***

5.2.2 Use Case 2

***Administrator can delete any user in the system***

5.2.3 Use Case 3

***Administrator can edit any user in the system***

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5.2.n Use Case n

Section 6: Nonfunctional requirements

6.1 Performance requirements

* ***Not considered in this system.***

6.2 Safety requirements

* ***Not considered in this system.***

6.3 Security requirements

* ***Use user’s email address and password to verify his/her identity.***

6.4 Software quality attributes

* ***System have to be easy to be updates to new data base and web servers with standard http protocol and SQL language.***

6.5 Business rules

* ***User has to login first, then he/she can post books in the system.***

6.6 User documentation

Section 7: Graphical User Interface

7.1 Introduction

7.2 GUI description(s)

***Copy the system pages***

Section S: Data Dictionary

8.1 Data Item 1

***Each user has a name and an email address.***

8.2 Data Item 2

***Each book has***

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8.n Data Item n