StudyBook

Requirements Document, version 1

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Group Members:
Chris Freels
Douglas Gorman
Naveen Neelakandan

Group Number: 4-2

Lab Instructor:
Richard Sween

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1. Introduction

1.1. Purpose

The purpose of this Requirements Document is to specify the software requirements of StudyBook, Mississippi State University social network that will assist students in meeting classmates, setting up study sessions, and keeping up with school work and assignments. This document will help define the concept and functionality of StudyBook.

The intended audience of this document is the software developers, Mr. Crumpton and Mr. Sween.

1.2 Definitions, Acronyms, and Abbreviations

Registered User – a user who has an account on the site and is logged in

Unregistered User- a user who is not logged in and does not have an account

Member of class – a registered user who has the class added to his/her class list

Virtual Whiteboard – and interactive document on which all user can see but only one user at a time may edit

Study session – may be either an online or offline meeting to study for the class. An online study session will include voice and text chat and should make use of the whiteboard.

Study session Leader – The member of class who sets up a study session

1.3. References

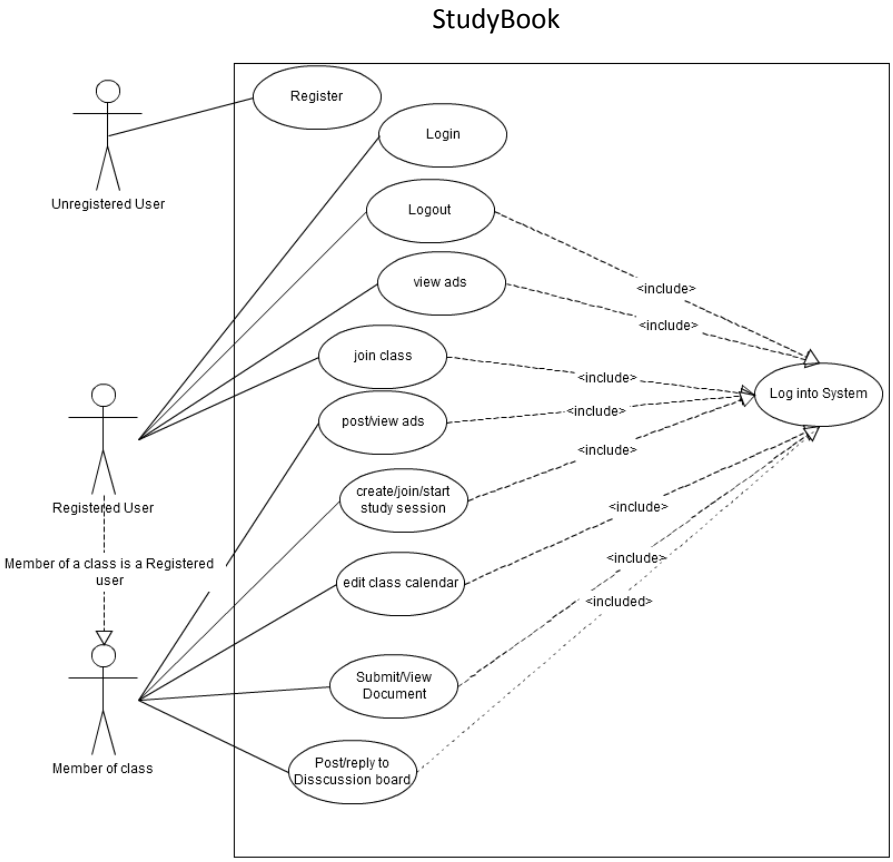
IEEE Std. 830-1998, IEEE Recommended Practice for Software Requirements Specifications, Institute for Electrical and Electronic Engineers, Piscataway, New Jersey, 1998.

2. System Overview

2.1 Purpose

Studybook will be a social network for people with a valid Mississippi State University NetID. The site will require an account to use. Users will be able to join classes and maintain a simple profile. Each class will have its own homepage with a discussion board, a calendar, and a study event creator. Any member of a class will be able to edit the class calendar, create new posts on the discussion board, reply to posts on the discussion board, create study events, and join study events. Study events may simply be a way to organize a study group but they may also be online study sessions. An online study group will include voice chat and a whiteboard. The whiteboard will only be used by the group leader and whoever else the leader gives permission to. The entire group will be able to see changes on the whiteboard in real-time. Alerts for study sessions and calendar events may be sent to the user by email or text if he/she requests it. Students may also submit and download documents such as class notes to the class homepage.

2.2 Use Case Diagram



3. Specific Requirements

3.1 Register (Required)

3.1.1 Description

An unregistered user would use this function to make an account to be able to use the site.

3.1.2 Actors

Unregistered User

3.1.3 Steps

1. The unregistered user starts at the main page of the StudyBook web application and clicks the link labeled Register.
2. The application displays a page with a form for the user to fill out. The form will include first name, last name, password, Msstate email address, classification (e.g. Junior or Senior), and major.
3. The unregistered user will fill out the form and submit it to the application.
4. The application will check that all of the fields have valid information and the unregistered user will become a registered user.

3.2 Login (Required)

3.2.1 Description

A registered user would use this function to log into the site to gain access to the site functions.

3.2.2 Actors

Registered User

3.2.3 Steps

1. The registered user starts on the main page of the StudyBook web application and clicks the link labeled Log In.
2. The application displays a page with a form for the user to fill out. The form will include the registered user's email address and password.
3. The registered user will fill out the form and submit it to the application.
4. The application will verify the information and if it is valid will display the user's profile
   page allowing the user to access site features. If the information is not valid the application will display the log in form with an error message stating the problem that occurred.

3.3 Logout (Required)

3.3.1 Description

A registered user would use this function to log into the site to gain access to the site functions.

3.3.2 Actors

Registered User

3.3.3 Steps

1. The Registered user will click the Logout button located on any page.
2. The application will display the main page and the registered user will not have access to site features.

3.4. Join Class (Required)

3.4.1 Description

A user would use this functionality to join an available class.

3.4.2 Actors

Member of class

3.4.3 Steps

1. The user starts at the main page and after logging in to their account, clicks on the link labeled join class.
2. The application displays a page with entries for the user such as class name and teacher name.
3. Once filled out the user then clicks a button labeled join class.
4. The application the displays a page with the classes joined.
5. The student clicks on the back link to go to the previous screen.

3.5. Post to Discussion Board (Required)

3.5.1 Description

A student would use this to post up a specific question on the discussion board.

3.5.2 Actors

Member of Class

3.5.3 Steps

1. The student starts at the main page of the course and clicks the link labeled Discussion
2. In the Discussions section, the student clicks on the link labeled Post Discussion
3. The application will display a Text box where the student can type in any question he/she has to post.
4. The student will click submit once he/she has entered the discussion question.
5. The discussion tab now appears under the Discussion board page.

3.6 Reply to Discussion Board (Required)

3.6.1 Description

A user would use this functionality to post a message to a discussion board.

3.6.2 Actors

Member of class

3.6.3 Steps

1. The user starts at the main page and after logging in, clicks on the tab discussion.
2. The application displays a list of discussion tabs
3. The user clicks on a discussion tab.
4. The application lists the discussion and an option for posting to discussion.
5. The user clicks on post link and enters in what is to be posted.
6. The application then posts information to the discussion board.
7. The student clicks on the back link to go to the previous screen.

3.7 Create Study Session (Required)

3.7.1 Description
The student would use this functionality to create a study session within the class.

3.7.2 Actors
Member of class

3.7.3 Steps

1. The user logs in to their account and clicks on the link labeled study session.
2. The application then displays the current study session and the link create study session.
3. The user clicks on create study session.
4. The application then displays a list of entries such as study session name and online or offline.
5. The user then enters said information and the previous page is updated.
6. The student clicks on the back link to go to the previous screen.

3.8 Start Study Online Session (Required)

3.8.1 Description
The student would use this functionality to begin a study session already setup.

3.8.2 Actors
Study Session Leader

3.8.3 Steps

1. The user logs in to their account and clicks on the link labeled study session.
2. The application then displays a list of study sessions already setup.
3. The user clicks on the study session they wish to start.
4. The application displays a virtual whiteboard as well as an option to enable voice/text chat
5. The Study Session Leader can then write on the whiteboard himself/herself or allow others to write on it by yielding control temporarily. Only one person has access to the whiteboard at any one time.
6. Once, the study session is over, the Study Session Leader exits the application by clicking on the back link and the study session is ended.

3.9 Join Online Study Session (Required)

3.9.1 Description

A student would use this to join an ongoing Online study session.

3.9.2 Actors

Member of Class

3.9.3 Steps

1. The student starts at the main page of the course and clicks the link labeled Study Session
2. The application then displays a list of study sessions already setup.
3. If there are any Online Study Session ongoing, the student can click on this to add himself/herself to the Study Session.
4. The student will now be able to view the whiteboard of the study session as well as have an option to enable voice/text chat.

3.10 Edit Calendar (Required)

3.10.1 Description

The user would use this functionality to add an event to the calendar.

3.10.2 Actors

Member of Class

3.10.3 Steps

1. The user logs in to their account and clicks on the link labeled calendar.
2. The application displays an updated current calendar with links such as add to calendar
3. The user clicks on the link add to calendar.
4. The application prompts the user with entries for date, time and the information to be added.
5. Once the user enters this information and clicks add to calendar.
6. The application updates the calendar for this user.
7. The student clicks on the back link to go to the previous screen.

3.11 Post Ads (Required)

3.11.1 Description

A student would use this to put up advertisements of book or other materials he wants to sell at the end of the semester.

3.11.2 Actors

Member of Class

3.11.3 Steps

1. The student starts at the main page of the course and clicks the link labeled advertisements
2. In the advertisements section, the student clicks on the link labeled Post Ads
3. The application will display a form with a few categories. Categories include Type of item to be sold, selling price , condition of item and contact information
4. The student will fill up the form accordingly and submit it.
5. The ad now appears under the advertisements section in the main course page.

3.12 View Ads (Required)

3.12.1 Description

A student would use this to view advertisements posted for a specific course.

3.12.2 Actors

Any Registered User

3.12.3 Steps

1. The student starts at the main page of the course and clicks the link labeled advertisements.
2. The application now displays the advertisements section under which all ads posted in the course are displayed in chronological order with a brief description of the type of item.
3. The student will click on any ad that interests him to find out more such as the price, condition of item and the contact details of the seller.
4. The student clicks on the back links to go to the previous screen.

3.13 Submit Document (Required)

3.13.1 Description

Student will be able to upload any authorized pdf document (such as notes) to the website. Anyone registered in the course can then view this document.

3.13.2 Actors

Member of class

3.13.3 Steps

1. The student starts on the main page of the course and clicks on the Documents link
2. Under the documents link, the student clicks on the link to Upload Document
3. The application brings up a form where the student can type in the name of the document and select the document to be uploaded from his computer.
4. The application checks if the document is in pdf format and if it is, the document is uploaded to the server and a confirmation screen appears. Else, the upload is unsuccessful and the student is shown an error message.
5. The student clicks on the back links to go to the previous screen

3.14 View Document (Required)

3.14.1 Description

Students will able to view any document uploaded to the server under the course listing

3.14.2 Actors

Member of class

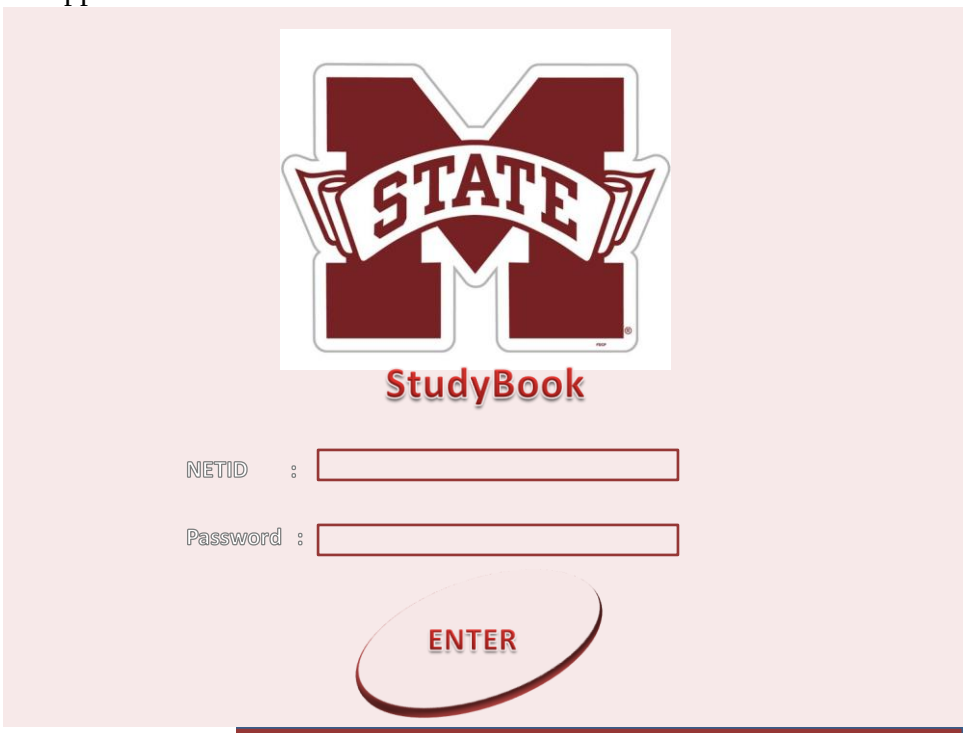
3.14.3 Steps

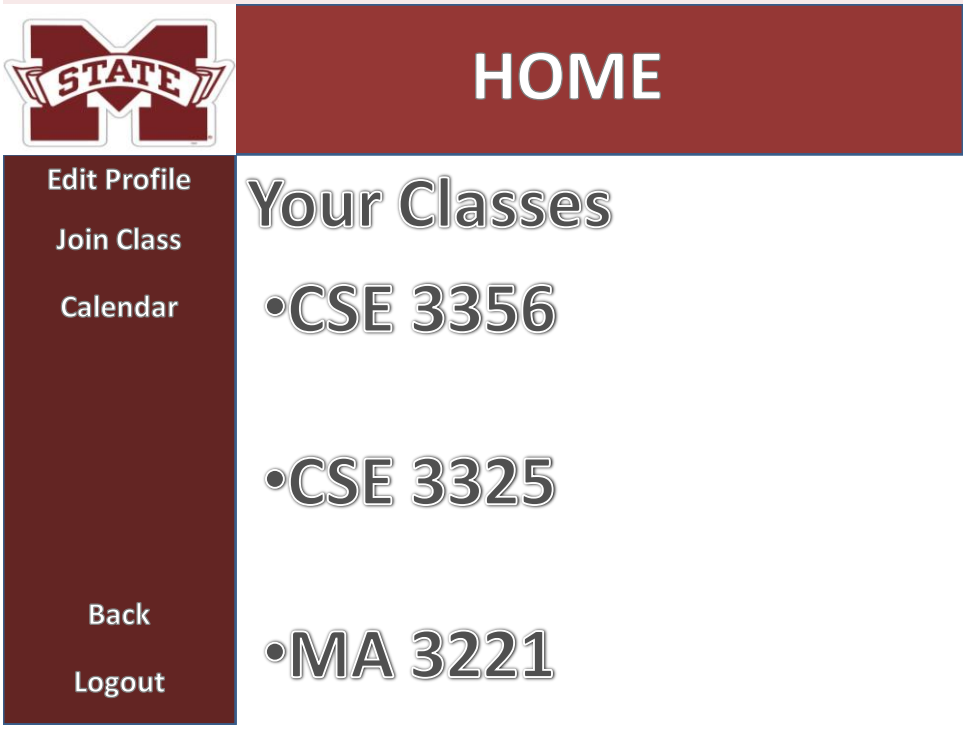
1. The student starts on the main page of the course and clicks on the Documents link
2. Under the documents link, the student clicks on the link to view Document
3. The application brings up a page featuring all documents to have been uploaded for the specific course by chronological order
4. The student clicks on any document he is interested in and the application brings up a page featuring the document.
5. The student clicks on the back links to go to the previous screen

Appendix A: User Interface

A.1 Login

The following images depict the user interface as seen by the student when they are logging in to the application.





A.2 Post Advertisement

The following images depict the user interface as seen by the student when they are posting an advertisement.

Appendix B: Initial Task and Role Assignments

- Presentation Assignments:
    - Requirements (2/23) - Chris Freels
    - Design (Naveen Neelakandan)
    - Final(Douglas Gorman)

- Initial Task Assignments:
    - HTML, User Interface Design – Naveen Neelakandan
    - Database creation and management – Douglas Gorman
    - Java server pages and servlets – Chris Freels