CS251: Software Engineering I 2014-2015
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Project Title : BooksNetwork

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Contents

Document Purpose and Audience

- This document is for a system requirements specifications about BookNetworks , and we will review the functions and nonfunctional requirements and the scope of the project. Also, we shall predict and sort out how we hope this document will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered.
- It's guided to the customer and team members who will review this document as a reference.

Software Purpose

The purpose of the software is to build a communication between all readers, interact between each other and share their knowledge with other readers and visitors.

Software Scope

We will build an online BookNetworks that have multiple users that can add books, rate the books . each reader has his own shelves , he/she can add books ,mark the books as want to read books and separate the books based on its fields .other users can review friends books , like their reviews and be able to comment on it.

Requirements

Functional Requirements

- **Login:** System asks the members for username and password.
- **Creating shelves:** The system asks the members to create shelve by giving it a name.
- **Add the books:** the system asks the member to add a book to his shelves.
- **Marks the books:** the member can mark his books as (read ,currently reading, to read) .
- **Search for a book:** The system ask the member to write a book name and then search for it.
- **Rate the books:** Each user uses the system can rate the books from one star (poor)to five stars (excellent).
- **View books:** the system can view the books of a user in different way, either by view it in its current shelve or by view it in its category (mystery, drama, poem, …).
- **View friends reviews:** the member can view his friends reviews and read the comments on the review.
- **Like and comment:** The user can like their reviews and be able to comment on it**.**
- **News feed:** There is a news feed that show's friend's activities (finish read, currently reading, want to read, reviews, ratings).
- **User Profile:** Each User has a profile consists of :1-basic information shelves, 2- favourite books(have rate =5 stars),3- currently reading(list of books which user currently reading), 4-latest update of the users, 5-favorite authors, 6- favorite genres).
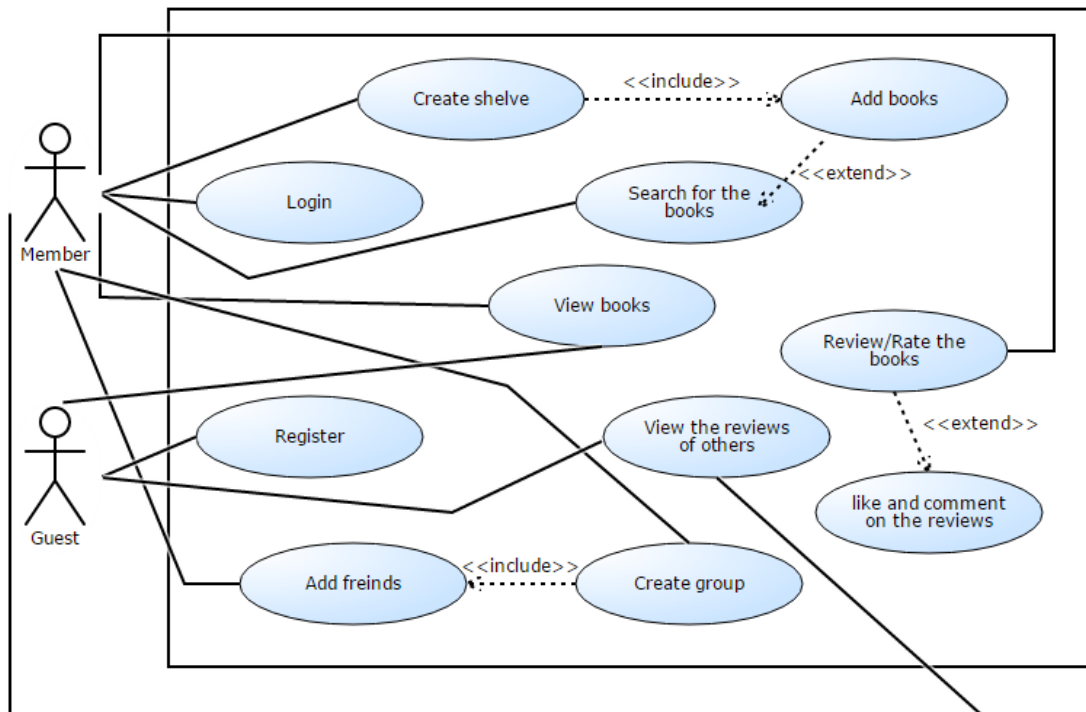
- Group system: The system provides users to create a group and other users can join it, add posts and comments.

Non Functional Requirements

Non functional	Details
Performance	The system respond to each command in 2 seconds
Backup	System has a backup for books and members on servers
Privacy	The system is public for any guest , and don't provide privacy to the members information
Price	For free application
Quality	Medium quality
Efficiency	Consume little load of the internet and small storage of the machine
Security	The system provides a security on the user's password and data
Maintainability	The system is easy to maintain and edit for any time

System Models

Use Case Model

Case Tables

Case ID:	1
Case Name:	Log in
Actors :	Member
Pre-conditions:	Must be register before log in
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- User Enter username and Password.	
		2- System Verify user data

Exceptions:	I f not member in BookNetworks must register
Includes:	Null
Notes and Issues:	Null

Case ID:	2
Case Name:	Register
Actors :	Guest
Pre-conditions:	Null
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- User Enter username and Password.	
		2- System Verify if user name already exist
	3- user enter the rest of data (first name , last name , email ,country , ..ect)	

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	3
Case Name:	View books
Actors :	Guest or Member
Pre-conditions:	He must be logged in if he is a member
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- user chooses the book he want to view	
		2- system view the book

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	4
Case Name:	Create shelve
Actors :	Member
Pre-conditions:	Logged in
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- user enter the name of the shelve	
		2- system create the shelve

Exceptions:	Null
Includes:	Add books
Notes and Issues:	Null

Case ID:	5
Case Name:	Add books
Actors :	Member
Pre-conditions:	logged in then created shelve
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- user chooses between adding the book manually or search for them	
		2- system verity the choice , then add the book

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	6
Case Name:	Search for books
Actors :	Member
Pre-conditions:	logged in
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- user write the book name	
		2- system check if the book exist , then view the book

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	7
Case Name:	Review and rate the book
Actors :	Member or guest
Pre-conditions:	Null
Post-conditions:	Null

Flow of events:	User Action	System Action
		1- system show the review
	2- user read the review , if he is a member he can rate the book	

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	8
Case Name:	like , comment on a review
Actors :	Member or guest
Pre-conditions:	Null
Post-conditions:	Null

Flow of events:	User Action	System Action
		1- system show the review
	2-if he is a member he can like or comment	

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	9
Case Name:	Create group
Actors :	MEmber
Pre-conditions:	logged in
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- the member click on create group	
		2- system ask the name of the group and the members of groups
	3- the member add the details	
		4- System verify the data then creat the group
Exceptions:	Null	
Includes:	Null	
Notes and Issues:	Null	

Case ID:	10
Case Name:	Add friends
Actors :	Member
Pre-conditions:	logged in
Post-conditions:	Null

Flow of events:	User Action	System Action
	1- the member search for the friend	
		2- system check if the friend name exist , if yes , then add him to the members friends

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Case ID:	11
Case Name:	View the reviews of others
Actors :	Member or guest
Pre-conditions:	logged in if he is a member
Post-conditions:	Null

Flow of events:	User Action	System Action
		System show the review on the screen

Exceptions:	Null
Includes:	Null
Notes and Issues:	Null

Ownership Report

Item	Owners
Every item on this document	*All the group members*