



Software Requirements Specification

Course Name: Software Engineering 1

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CS251: Phase 1 – Team DS_3, Books Network Software Requirements Specifications

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Team

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Document Purpose and Audience

- **The purpose of this document:**
 - To give a brief overview about the “Books Network” system.
 - To list the possible functionalities of the system and its intended initial requirements.
- **The target audience of this document:**
 - This document targets our Teaching Assistant (Younna Magdy).
 - It will be proposed to her to view, modify and approve it.

Introduction

Software Purpose

- **The purpose of the “Book Network” project is to:**
 - To develop a virtual reading club.
 - To encourage people to read by acting as a social media entirely for books.
 - To facilitate access to e-books especially high-rated ones.
 - To provide effective communication and interaction among millions of different readers by adding posts and engaging in discussions.

This idea has been successfully implemented before and a good example on it is goodreads.com website.



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Software Scope

- The “Books Network” system will be designed as a social media website for readers.
- It will allow **each user** to have his own account where he will manage:
 - His Profile:
 - Basic information shelves
 - Favorite books (rates=5)
 - Favorite authors
 - Favorite genres
 - List of currently reading books
 - His latest updates.
 - Searching for existing books or adding new ones.
 - Rating and reviewing books.
 - Adding and following other readers, viewing their profile, books list, reviews, ratings, and latest updates, and also commenting on their different activities.
 - Engaging in discussions and groups.
- It will have a public books list where **each book** will have:
 - A title, author’s name, publisher and year of release.
 - Different ratings and reviews.
 - Famous quotes.

Definitions, acronyms, and abbreviations



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Requirements

Functional Requirements

- **Sign up:** If the user doesn't already have an account, he can sign up to the website by a unique username, email address and password.
- **Log in:** If the user already has an account, he can log in to the website using his email address and password.
- **Edit profile:** A user can edit his basic information, his favorite books (rates=5), favorite authors, favorite genres, and list of currently reading books.
- **View Books:** A user can view the books in his shelves (Finished reading, currently reading, to-read).
- **Add books to his shelves:** A user can add books in his shelves (Finished reading, currently reading, to-read).
- **Search for a book:** A user can search for books in the public books list.
- **Add a new book:** If the user couldn't find a book in the public books list, he can add it manually.
- **Add review and rate:** A user can review and read books that he has already read. The rating ranges from 1 star up to 5 stars.
- **View other users' reviews on books:** A user can view other users' reviews on books, like them and comment on them.
- **Add friends to follow their updates:** A user can add other users as friends and then will be able to view, like and comment on their different activities.
- **Compete with another user for a given book.**
- **Create a group:** A user can create a group and add other users who can add posts and comments.
- **Join a group:** A user can join a group, add posts and comments to it.



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Non Functional Requirements

System Models

Use Case Model

Use Case Tables

Ownership Report