

User Stories, Use-Cases, and Requirements for CSCD 350 Spring 2024

Noveleaf book library

Version 1

Team 3: Powerpuff Squirrels



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Date: April 18th, 2024

GitHub Repository:

<https://github.com/Sanmeet-EWU/github-teams-project-bid-pow-erpuf-squirrels>

Part 1: User Stories

U1 Track Read: As a reader, I want to track books that I have read so that I can get recommendations for future reads.

U2 Track To-Read: As a reader, I want to track books that I would like to read so that I have a list of books to choose from when picking my next read.

U3 Create Account: As a reader, I want to create an account so that I have personalized data for recommendations.

U4 Set Goals: As a reader, I want to set reading goals so that I can track my reading progress.

U5 Rate Books: As a reader, I want to be able to rate books so that I can get better recommendations for books I may like.

U6 Search Books Read: As a reader, I want to be able to search for books to track books I've read.

U7 Search Books To-Read: As a reader, I want to be able to search for books to add to my "to-read" list.

U8 Follow Users: As a reader, I want to follow other users so that I can see books they've read.

U9 Follow Authors: As a reader, I want to follow specific authors so that I get recommended their titles more often.

U10 Set Preferences: As a reader, I want to set book preferences so that I can get better book recommendations.

U11 Recommendations: As a reader, I want to view book recommendations so that I can find a book to read.

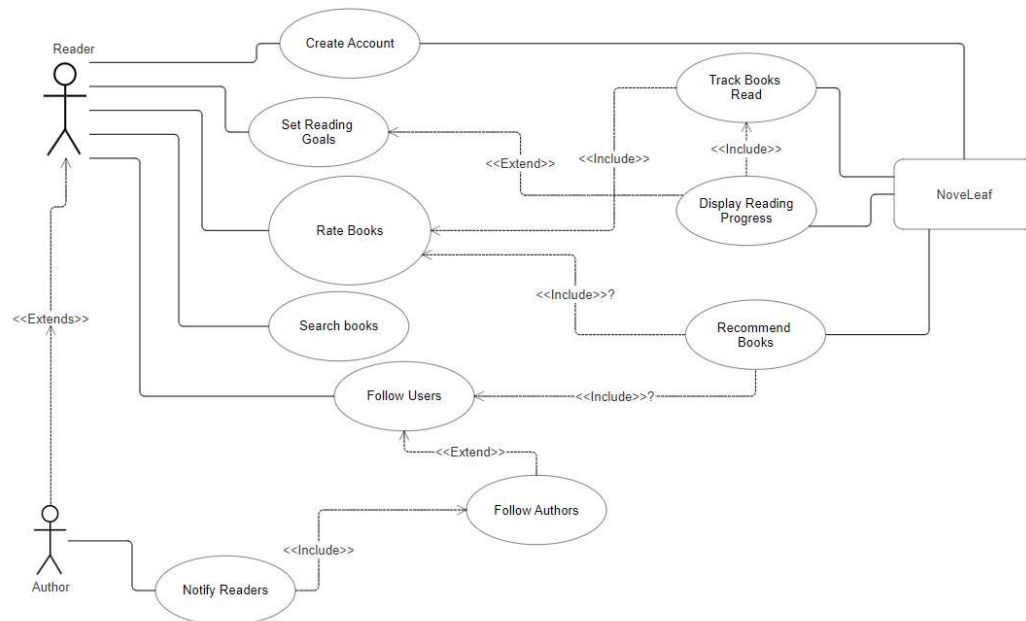
U12 Updates: As an author, I want to be able to update my fans on projects and books I'm working on so that I can maintain their interest and boost engagement with my upcoming releases.

U13 Messaging: As a user, I want to be able to post messages on my page, and be able to comment on other peoples pages, so that I can engage in discussions about certain books.

Part 2 - Use Case Diagrams

Users: Readers, Authors (kind of Reader)

Use Cases: Search books, create account, track books read, set reading goals, display reading progress, rate books, follow other users, follow authors, recommend books, and set preferences.



Part 3 - Requirements and Specifications

R1(U1) Record Read: There will be a feature to record the books that users have read. This will include a date that the book was completed (the default being the date it was marked as read) and a rating (default being neutral). This information will be stored in a database.

R2(U2) Record To-Read: There will be a feature to record the books that user's would like to read in the future. This information along with the date that the book was marked as "to-read" will be stored in a database.

R3(U3) Create Account: There will be a feature that will allow users to create an account. This will include a username and password, and this information will be stored in a database.

R4(U4) Set Goal: There will be a feature that will allow users to set a reading goal. This goal will include a time-frame (week, month, year) and the desired number of books to read

R5(U5) Rate Book: There will be a feature that will allow users to rate books that they have read. Users will only be able to rate books that they have read (Rating a book will automatically record the book as read with the default completion date). The ratings will consist of 3 categories: liked (thumbs up), disliked (thumbs down), neutral (expressionless face).

R6(U6,7) Search: There will be a feature that will allow users to search for books. This search will be powered by an external API which will retrieve book information. This information will be displayed to the user along with a notification that the book has been marked as read or to-read by the user, if applicable.

R7(U8,9) Follow: There will be a feature which allows users to follow other users. This will allow users to view the books that the other users have read along with their ratings.

R9(U10) Preferences: There will be a feature that will allow users to set their reading preferences. These will include types (fiction, non-fiction, plays, poetry, etc) and genres (sci-fi, romance, thriller, etc.). This information will be stored in a database.

R10(U11) Recommendations: There will be a feature that displays recommended books to users based on the data that is available. The recommendations will be generated by algorithms that take into account books the user has read and their ratings, stated preferences, books read by users they follow and their ratings, books written by authors they follow, and books liked by users with similar reading histories and preferences.

R11(U12, U13) Profile Comment section: There would be a feature to have a small comment section on every user's page, this will allow the user to make comments on their own page, and for others to comment on them.

Part 4 - Glossary

Assumptions:

The user enjoys reading

The user already has an idea as to what kind of books they like

The user knows what books they don't like

Recommendations - A suggestion made after receiving relevant information

Book API - An interface that allows our application to pull books from the web

Rating - Upvote or downvote a book to indicate if the reader liked the book

User account - What enables the reader access to the platform