

Project Title : Readify

Team 24

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Project Summary:

Readify's goal is to provide a common place for people to create booklists (book playlists) based on factors such as genre, language, and author, to explore different books that they could read online. The web application would provide book recommendations based on users' choices of books and created playlists, all while utilizing the GoodReads Best Books Ever dataset.

Project Description:

Objectives:

1. Create an intuitive login interface through which users can login in our application using their social media handle.
2. The application would allow users to create their own booklists.
3. The primary objective of our web application is to recommend books to users taking into account the interest as well as similarities between them.
4. It also allows users to add recommended books to their booklist.

Usefulness:

1. Readify provides people a platform for it's users to create shareable playlists of their books and find book recommendations based on their own liked books and created booklists.
2. It is a great place for like minded avid readers to share their interests with other like minded individuals to share their love for books and reading.
3. This app is a fantastic way for novice readers to try out various genres and create a reading habit.

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Dataset:

1. <https://zenodo.org/record/4265096#.YifPaRPMJhF>
2. Description: Dataset consists of one single CSV file: 'Best_Books_Ever'. This file contains **25** different fields such as book title, book author, book rating, book description etc.
3. Source: Zenodo.org GoodReads Best Books Ever
4. The dataset contains 25 variables and 52478 records corresponding to books on the GoodReads Best Books Ever list .
5. Open Database for public use.

Description of the functionalities:

1. **Create:** This can be done in **2** ways. First, users can create their account on the website and complete their Readify profile where they'll be asked to select/list their top 3 genres. Second, users will be able to create their own book lists and individual books to this.
2. **Read:** User's can explore different books based on genre, author name, and language.
3. **Update:** Users can add new books to their booklist or update details in their Readify profile.
4. **Delete:** Users are allowed to delete their playlists, remove books from their playlists or unfavorite them at any given time.
5. **Advanced Functionalities:**
 - i. Personalized visualization: Users' most-explored genres are displayed depending on their Readify activity.
 - ii. Generalized visualization: This would show a graphical depiction of genres as well as the amount of playlists that contain them. We'd also make a list of the top five novels in each category, as well as the top five authors.

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Task Divisions:

Our idea is to divide the project into 3 main tasks across the 3 team members:

These are :

- Application Backend Integration with Queries : Ameya
- Recommendations/Predictions with Queries : Shefali
- Frontend/Visualization and Queries : Shubham

Although we have divided the work among the team members to focus on specific parts based on their areas of expertise, the team members will also assist one another in their assigned jobs and collaborate to deliver all of the project's functionalities.

Communication and Sharing:

Github Repository: <https://github.com/ShefaliL/Readify>

Communication : Microsoft Teams,Zoom

Project Tracking:GitHub Issues/Projects

Project Plan: Agile(Scrum) with 2 weeks sprints and bi-weekly in person meetings

Milestones:

- Week 8 - Decide the Dataset for the Proposal
- Week 9 - Dataset walkthrough, database decisions and schema design
- Week 10- Creation of Login system
- Week 11- Design Dashboard to display books from dataset
- Week 12: Add filtering functionality to product dashboard and functionality to create new booklist.
- Week 13: Start building queries and metrics for the recommendation system.
- Week 14: Build a 'book prediction' model based on the recommended books .
- Week 15: End to end testing and deployment
- Week 16:Full demo