Project Charter: Team 22
CS 30700
PickaBook

Team Members

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Problem Statement

Reading books has taken a back seat to a lot of the newer forms of media that provide instant gratification. New readers often get bombarded with a wide range of books and end up feeling lost, causing them to never pick a book and dive in. Old readers on the other hand have a seasoned taste and are usually looking for books that are similar to their preferences. PickaBook encourages people to read more by allowing users to explore books and see what other users thought of it. It also introduces a machine learning based recommendation system for users looking for books within their preferences.

Project Objectives

- Create user profiles to keep track of users book reviews and book preferences.
- Implement a review system allowing users to review books which also updates their personal preference for recommendations.
- Develop a system to display user reviews for each book.
- Develop an exploration feature to explore new as well as top rated books by category.

- Browse through books by genre.

- Obtain book metadata and book content in order to get data for recommendation system.

- Design a machine learning system to implement a recommendation system based on the user's reviews and interests.

Stakeholders

i) Project Owners: Myeongsu Kim, Logesh Roshan Ramadoss, Shobhit Makhija, Piyush Juneja

ii) Developers: Myeongsu Kim, Logesh Roshan Ramadoss, Shobhit Makhija, Piyush Juneja

iii) Users: Book enthusiasts and new book readers. The webapp can be expanded to support book publishing individuals for sales.

iv) Project Coordinator (Manager): Logesh Roshan Ramadoss

Project Deliverables

- AngularJS front-end, allowing users to post their reviews and comments.

- Recommendation System using Python along with its scipy library.

- Django backend web application to allow better integration with recommendation system.

- An exploration interface to present new and top rated books.

- Postgres database to store user ratings and reviews and to allow effective querying.