

BükRec!

A BOOK RECOMMENDATION SYSTEM BASED ON PERSONALIZED JOURNAL ENTRIES.

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INTRODUCTION

Aggregate reading time among Americans is at an all-time low and studies have shown that reading can reduce stress, help alleviate depression symptoms. Currently, book recommendation systems use factors such as demographics, book reviews, literary history, and similar users to suggest books. Our system allows for recommendations based primarily on journal entries to better recommend books the user can relate to. Users will get recommendations about topics they care about and not solely get recommendations based on demographic information or reading history.

PRIOR WORK

Journal apps and book recommendation apps have been separate so far, but this project aims to combine them. Current systems use natural language processing and other machine learning algorithms that rely on demographic information, previous reads, and similar clustering. This project will draw from similar systems in terms of keyword extraction.



- + Extensive access to user and book information
- Can develop trend of recommending same kinds of books to user



- + Community based system lead to recommendations of currently popular books
- Can decrease the personalization of the recommendations

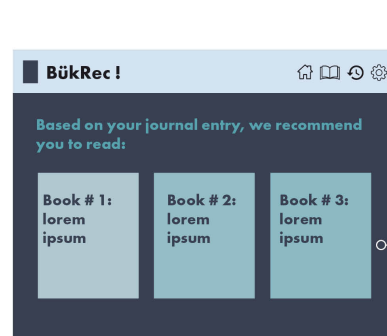


Fig 1. Books recommended page

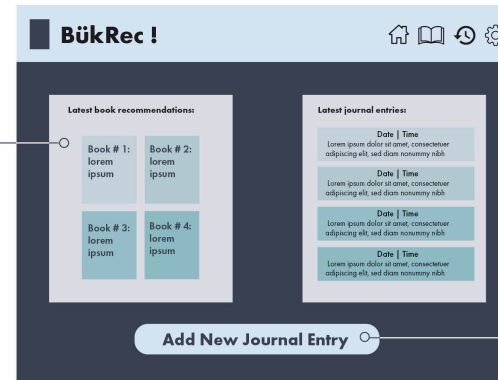


Fig 2. Home page

DESIGN

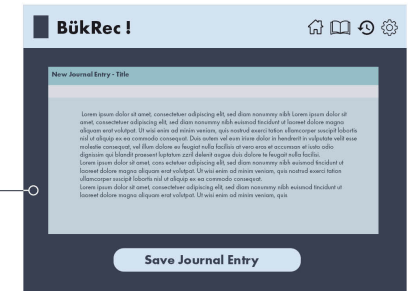


Fig 3. Journal Entry page

METHODOLOGY

The technologies used in this project involve Natural Language Processing (NLP), and information storage and retrieval, to extract the required information from journal entries. To retrieve basic information about books we plan to use the CMU public database. Each user will be able to type in a journal entry as shown above, and have the algorithm recommend books based on that entry. The users can also access their past journal entries.



EVALUATION

QUANTITATIVE MEASURE

- How much did the user enjoy the book (on a scale of 1 to 10)?
- How likely are you to read one of the recommended books (on a scale of 1 to 10)?
- How safe did you feel writing your journal entry in terms of privacy (scale of 1 to 10)?

QUALITATIVE MEASURE

- What is your favorite feature(s) in our application?
- What feature(s) would you change within our application?
- Did you feel like your suggested title(s) represent your journal entry?



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