

Signup -> Genre Page -> Show Different Books -> Dashboard

Recommendations ->

- 1. Random Books (Q)
- 2. Collaborative Filtering (M)
- 3. Popular Books (M)
- 4. Because you liked "Atomic Habits" (M)
- 5. More of "James Clear" (Q)
- 6. Genre Specific (Q)

Retrain model at a fixed time every day
- cron job
- use data from trainable_books table
- clear table once trained

Our database books only initially
then GBooks API

For now - exchange
whatsapp no. - less secure

later - custom chat - more
secure - more expensive

Server Stats:
No of Books Exchanged
Number of Users
Books Available

Profile Stats:
- U rated n books <x>

a wants to exchange book x (publically available)
b requests to exchange book x (0, requestFor: X, inReturnFor: Y)
a counter requests to exchange x for y
(1, same, message: accepted) (2, reject) (3, counter)
b gets the request
b accepts request (numbers exchanged)

Tables

Users Table Schema ->

uld
Name
Email
Password
location
loginType
whatsappNumber - redirect to wa.me/<91num>

ratings ->

uld
bld
rating

trainable_books

uld
bld
rating

Exchange (in progress) Table ->

uld
bld

Messages ->

mld
requestFor
inReturnFor
requesterId
requesteeId
currentState
message

Books Table Schema ->

bld
ISBN
title
genre
avg_rating
author
imgUrlSmall
imgUrlLarge
Year of Publication
Publisher

server_stats_table:
No of Books Exchanged
Number of Users
Books Available

Routes ->

/signup
/login
/getGenres
/getGenreBooks
/submitBookRating (array or single)
/dashboard (Give All Recommendations)
/search?query=""&filter=""
/profile (no of ratings, exchangable books, user since)
/getBook
/addToExchangeList
/removeFromExchangeList
/exchangeRequest
/approveRequest
/rejectRequest
/getExchangableBooks/uld
/sendCounterOffer