



## **A simple book recommendation system**

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**ABSTRACT** : *Nowadays, Books are being replaced by eBooks because they are more accessible, easier to use, one can have their own library in their pocket, hence a major e-commerce website has started selling eBooks. Recommendation systems are used based on the user's information[1]. Recommendations system is a very powerful tool used by the e-commerce website to help the customers by more of their products and giving them personalized suggestion to help them. In this paper, a simple recommendation system is proposed which uses a simple formula based on users like and time spent and other attributes to suggest the user books according to their taste. The system would have other functionalities such as to search books, links to buy the paperback version or else user can directly download the eBook. The search history of the user would also be used. The formula considers attributes such as the genre of book, some specific details of the user such as their age, preferred genre, and other attributes*

**KEYWORDS** - *Recommendation System, Content based, Ecommerce, Clustering, Score Based*

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### **I. INTRODUCTION**

The recommendation algorithms are evolved as intelligent algorithms which take input as attributes specific to the user a give output a list of recommendation personalized to the user. They are used by the e-commerce websites to reduce the overhead of making choices. They help the customer to take a decision and also increase the credibility of the e-commerce website. It benefits both the customer as well as the e-commerce site. Recommendation systems can be implemented in every domain. it comprises of two entities, one is the user and the other is the item .in our case the user is the customer and item is the book. The input of the algorithm is the database which calculates the score for each book of the users three preferred genres. This paper presents a simple approach based on content-based filtering and clustering for recommended books to the user

### **II. CURRENT SYSTEM**

Currently, web sag mining is used to provide relevant information to the user. Web Usage Mining stores the user's behaviour on the internet and processes that data. WUM generate information that is generally most appropriate and relevant to the user. The recommendation system is one of the examples Web Usage Mining .Whichbook.net allow users to select a particular category, plot, and settings for giving consequent recommendations. Thus, the focus of the system is on users current information need. Also, this system allows the user to

select a particular mood like happy, funny, unusual and unpredictable and at the same time allows them to change their search criteria between moods and plot setting. The diversity quotient of such recommendation is narrowed within the unpredictable option and therefore user could find the system repeating similar books with the passage of time.

### III. PROPOSED SYSTEM

The system works in the following order

- Clustering of books based on genre and theme of the book
- Content-based filtering
- Score based

The popularity of the author would also be mapped and recommendations would be given to the user

### IV. IMPLEMENTATION

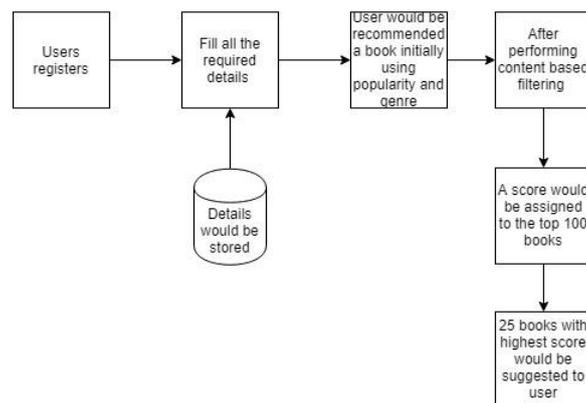


Fig 1. Block diagram of a recommendation system

The first step is that the user should register him or her. Details such as user’s name, age, preferred genre

Attribute	Description
Id	A unique identification number for the user
Password	A unique password is given by the user
Name	Name of the user
Age	Age of the user which would account as an attribute in the score
Preferred Genre	List of genre selected by the user
Favorite books	Books marked by the user as their favorite
Time Spent	Average time spent by the user on the site for reading

USER INFO TABLE

Attribute	Description
Isbn	A unique number is given to each book
Title	Title of the book
Genre	of the book such as comedy, horror
Theme	The theme of the book such as female protagonist etc

**BOOK INFO TABLE**

- Initially, the user can search the books they like
- Another way is that the user would be recommended based on popularity
- All the detailed of the user would be stored in the database
- The next step is to perform content-based filtering of the books
- After that top 100 books would be scored using the attributes of the user

Score=a\*(number of highest favourite) +Time spent

## **V. CONCLUSION**

Recommendation systems are widely used by much e-commerce sites. This paper tries to give a personalized user based recommendation.

## **REFERENCES**

[1] The Use of Machine Learning Algorithms in Recommender Systems.