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Online Book-Store and Recommendation System Using Cloud Computing

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ABSTRACT: Users will use book recommendation systems to look and choose books from variety of choices out there on the net or in different electronic data sources. they provide the user with a tiny low selection of products that square measure well appropriate to the outline, given a large cluster of things and an outline of the user's wants. Our system can merely offer recommendations. Recommendations can be generated supported the user's previous activity, like shopping for habits, reviews, and likes. In this system, we have a tendency to square measure a major issue: once a user buys a book, we would like to advocate different books that the user would enjoy. shoppers even have too several selections once it involves recommending the simplest and most relevant books for them. up user privacy whereas imposing the smaller and smaller loss of accuracy on recommendations. The projected recommender system can offer its user's the power to look at and search books and mistreatment Support Vector Machine (SVM), it'll list the extremely purchased and prime rated books supported the topic name given because the input.
User can purchase book online. Once book is purchased an auto email with QR code will be share on registered email.

I. INTRODUCTION

In easy words, a recommendation system is any system that mechanically suggests content for web site readers and users. These systems evolve an intelligent algorithm, which generates recommendations to users. Machine learning has been improvising the recommendation systems, additionally it brings a lot of prospects to boost performance of recommendation system. Recommendation systems square have wide custom-made that uses collaborative filtering and content-based filtering severally. Library book recommendation system is the web application which is used to manage the library's repository. It is helpful in preserving databases for the book purchases which are available in the library. This system tracks several categories like books, journals, magazines, etc

Recommender systems are used to generate meaningful recommendations to users based on their preferences, which will be determined following several approaches. This work targets Arab readers by providing accurate and reliable results that match their needs and desirability. Eventually, it will enhance the reading experience for any Arab readers. The main approach is to filter the recommendations, and this can be achieved either by Content-Based filtering or by Collaborative Filtering. The collaborative filtering techniques presented in this paper compute the similarity matrix between items and users' ratings, and then evaluate the recommendations for users. The techniques cover User-Based and Item-Based Collaborative Filtering, as well as Matrix Factorization through an SVD algorithm. A comparison between these techniques is presented in terms of the fitting and testing time, and accuracy. The KNN-based algorithms showed better performance than the matrix factorization method with respect to fitting and testing time. However, the matrix factorization (SVD) algorithm had the best results in terms of accuracy.

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II. LITERATURE SURVEY

Sr.No.	Title of Paper	Author	Gap identified
1.	Book Recommendation System	Jianfeng Hu	Proposed demographic based recommendation system. This includes past buying behavior along with their personal profile for predicting their future buying behavior
2.	Recommender systems in ecommerce	J. Ben Schafer, Joseph Konstan, JohnRiedl	proposed product recommendation based on the collaborative filtering, in specific user based collaborative filtering, which starts by finding a set of customers who have purchased and rated similar items with the target users purchasing history
Sr.No.	**Title of Paper**	**Author**	**Gap identified**
3	Intelligent performance-based product recommendation system.	Kalyan Kumar	proposed Intelligent/ knowledge based product recommendation system. Intelligence contained in processing elements and subjective product information received from consumers or input to the systems as part of their initial setup are being used to recommend the products.
4	A personalized recommender system based on web usage mining and decision tree induction	YH Cho, JK Kim, SH Kim	suggests a personalized recommendation methodology, which able to get further effectiveness and quality of recommendation.

III. PROPOSED SYSTEM

Existing recommendation services despite their powerfulness need a strong user profile information and history. User register to such systems, browse books, rate them, write their feedbacks, recommend to others, share, read appropriate information and etc. Based on such an information a system makes its recommendations. The examples of such services are whichbook.net, whatshouldireadnext.com, lazylibrary.com and etc. Instead, our recommender system focuses on simplicity and speed. The user makes a registration and is asked to select 10 favorite books from at least 3 categories (genres). Based on this information the system makes recommendations. Further the user can continue to rate the books, buy them and add them to read list and thus allow to improve the quality of recommendations.

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IV. SYSTEM ARCHITECTURE

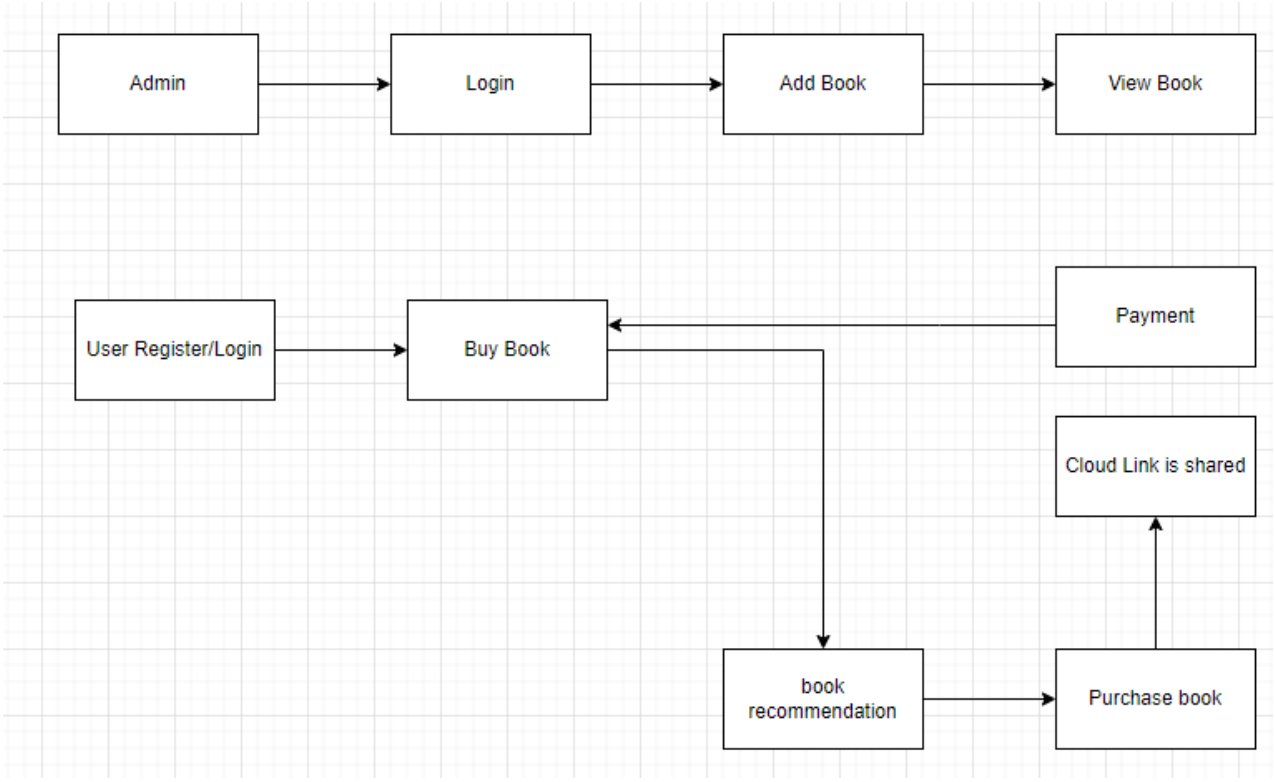

Fig 1. Proposed System Architecture

V. CONCLUSION

A recommendation system is an information service system that connects users and projects: on the one hand, it helps users discover potential projects of interest; on the other hand, it helps project providers to deliver projects to users who are interested in it. Companies and businesses can benefit from the recommendation system. Future research and development will improve the user experience.

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