

Designing a Book Recommendation System in Website-Based Electronic Learning (E-Learning) Applications Using Collaborative Filtering

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Abstract

Books are a window to the world to provide knowledge for someone. With the many various book titles that exist today, it makes someone confused to choose the book that suits their needs. With the development of time, a system has emerged where the system can help someone to get the preferred book item based on preferences. Recommendation system as user preferences to provide suggestions regarding books that are liked by users. With the classification system of a number of books with various categories, it will be easier for someone to get the books they need. The classification process in this system can be done by various methods, including methods such as Collaborative Filtering (CF), User Based Collaborative Filtering. User Based Collaborative Filtering is a recommendation system based on linkages by users and other users to get a book recommendation. By using the Euclidean Distance approach, book recommendations will be obtained according to user needs. This method will be used in the final project, so that several book recommendations will be generated from the system that is submitted to the user to be used as needed.

Keywords : Book, User Based Collaborative Filtering, Euclidean Distance, Recommender System.