

ABSTRACT

APPLICATION OF NAIVE BAYES ALGORITHM IN PROCUREMENT OF REFERENCE BOOKS AT THE WEBSITE-BASED LIBRARY OF SMA NEGERI 1 TRIMURJO

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Procurement of new reference books is influenced by several factors, including the number of books, the year the books were published, and the teacher's interest. From these factors, conclusions were drawn for procuring new reference books. The absence of a specific algorithm in procuring reference books makes it difficult for librarians to make decisions. Therefore we need a system that can recommend the procurement of reference books based on these factors. The reference book procurement system is made by applying the naive Bayes algorithm with the factors of book year, number of books, and interest. The system is built on a web basis using the Dart programming language with the Flutter framework. The system was developed using the prototype method with three stages: listening to customers, building mock-ups, and testing mock-ups. This system can be a recommendation media for procuring reference books with the results "Yes" and "No" on the specified subjects. This system also contains book data information for each subject, making it easier for officers to manage the book data.

Keywords: Naive Bayes, Darts, Flutter, Prototype

