ABSTRACT

IMPLEMENTATION OF THE KNUTH-MORRIS-PRATT METHOD (KMP) IN THE MANAGEMENT OF GRANTS AT IIB DARMAJAYA BASED ON WEBSITE

By:

Kassalman Muhammad

salucas137@gmail.com

The purpose of this study was to implement the Knuth-Morris-Pratt method to address issues in searching for grant data for textbooks, research, and community service based on a website at IIB Darmajaya. This research implemented the Knuth-Morris-Pratt method in data search and prototype methods in website development as an integrated platform. The research was conducted from November 2023 to February 2024 at the IIB Darmajaya campus. Based on testing conducted using Black Box Testing, the grant website for textbooks, research, and community service at IIB Darmajaya can run smoothly and function properly. The grant system at Darmajaya, carried out by administrators, lecturers, and reviewers, can be done paperlessly. The paperless correspondence system is cost-effective. The built system can be used for monitoring grants within the IIB Darmajaya environment, thus facilitating the LPM and LP4M departments in monitoring and evaluating grants.

Keywords: Website, Grant, Knuth-Morris-Pratt, Prototype