

ABSTRACT

DEVELOPMENT OF INFORMATION SYSTEM OF PENINGKATAN PRESTASI AKADEMIK (PPA) SCHOLARSHIP REGISTRATION AT DEPARTMENT OF COMPUTER SCIENCE UNIVERSITAS LAMPUNG BY APPLYING SORTING ALGORITHM QUICK SORT AND SELECTION SORT

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Information System of PPA Scholarship Registration at Department of Computer Science Faculty of Mathematic and Natural Science Universitas Lampung by applying Sorting Algorithm Quick Sort and Selection Sort is a system that is used to ease the processing of scholarship data. A student who participates the selection of PPA scholarship registration at Department of Computer Science has to enter the registration data on this system, so that the Secretary of Department doesn't need to enter the applicant's scholarship registration data anymore. This system can also rank automatically by using two sorting methods Quick Sort and Selection Sort. This system is built by using PHP as the programming language and MySQL. Based on running time sort and complexity of its algorithm, it's proved that Quick Sort Method is faster than Selection Sort Method. The result of functional testing data shows that the system can function in accordance with the requirement analysis. Based on non-functional testing data, it shows that at admin level of this system is include in category of "Good" with the average value of 4.20 and user (student) level of this system is include in category of "Good" with the average value of 3.97.

Keywords:Information System, Scholarship, Peningkatan Prestasi Akademik (PPA), quick sort, selection sort.