

ABSTRACT

COCOMO II METHOD FOR ESTIMATION RESOURCE NEEDS IN APPLICATION DEVELOPMENT SELECTION BANYUMAS REGENCY OSIS CHAIRMAN

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Voting is one way of determining a decision on various issues to gather aspirations and find the right solution to solve a problem, one of which is during the election of the OSIS chairman at SMA/SMK. The selection of OSIS Chairpersons for several high schools/vocational schools in Banyumas Regency is still done manually and sometimes there are problems such as voters giving the wrong ballot papers, the long voting process causes the voting results to be doubted which can lead to conflict. . To overcome this problem, an application was made, namely the Election of the OSIS Chairperson. The OSIS chairman election application is an application in the form of selecting an OSIS chairman which is packaged via website. Based on the results of interviews with the project manager at the time of making the application for the election of the student council president, a problem arose, namely the number of employees making the application was not sufficient, causing the completion of the system not in accordance with what had been determined. target. Software development requires an estimate or estimation of the size of the software to be built to determine how much effort will be expended in building a software. The solution to this problem is that resource estimation can be done using COCOMO II. Constructive Cost Model II is an algorithmic model that can help calculate cost, labor, and time estimates in software development projects. The purpose of this study is to produce an estimate of the application resources for the election of the student council president in the form of human resources, costs and time. The results of this study are for the estimated time to get results for 15 months, for human resource estimates to get results for 6 employees and for the total cost of getting results of 171.000.000.

Keywords: *Student Council Chair Election Application, COCOMO II, IT Resource Estimation, Voting*