

Abstract

So common a problem in software construction that is in estimating software projects such as the project is not completed on time, lack of resources and lack of funds or resources or budget. Software Project Estimation involves size estimation, effort estimation, time estimation, cost estimation. Software project estimation is generally performed on the stage of identifying the requirements of the software. The project manager requires the estimation for software projects in the early stages of requirements engineering, that is the requirements elicitation for the estimation of the project greatly affect the success of the project and can assist project managers in controlling and managing projects well [1]. The importance of getting the estimation results earlier that development projects of software managed properly, can support project planning, decision-making and resource allocation, the proposed solutions in the form research done by adopting Function Point and COCOMO model to estimate software projects from requirements text obtained at this stage of requirements elicitation activity.

The results showed that the estimation of this software to projects that have been completed that project Bandung city government (ASB-Online) and Telkom Indonesia Jakarta (U-Journey) has a 77.4% accuracy for estimation of size, 87,5% of the estimated effort and 59% for the estimated time. From these results the software implementation of the results of this research could yield estimation software projects such as the estimated size, effort and time on requirements elicitation phase with the input data requirements text obtained using goal and scenario four levels of abstraction. These results have several factors that led to the accuracy of not appreciating 100% of them Pressure from organizations and companies towards the completion of software projects, requirements volatile and unclear requirements that result in changes or management requirements are common and constant multipliers and exponential formula effort and time that used by COCOMO Model.

Key word : Requirements Engineering, Requirements Elicitation, Requirements Specification, Software Project Estimation, Function Point, Size Estimation, Effort / Resources Estimation, Time Estimation, Cost Estimation, COCOMO Model.