ESTIMATED COST OF E-PERFORMANCE SOFTWARE DEVELOPMENT GOVERNMENT OF SURABAYA CITY USING THE FUNTION POINTS AND USE CASE POINTS METHODS

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ABSTRACT

Software cost estimation is an action that estimates or predicts the amount of cost and effort required to develop a software. Many methods have been developed by previous researchers, one of which is the Function Points and Use Case Points methods. Function Points (FP) estimate the cost is calculated based on the function of software features according to *user* opinion. Use Case Points (UCP) estimate costs are calculated based on the Use Case Diagram document. When we have estimated the amount of costs incurred, the cost advantages or disadvantages can be minimized.

E-Performance is a performance management information system application in order to assess employee performance performance that is more objective, measurable, accountable, participatory and transparent so that employee management is realized based on work performance and the work career system of the State Civil Apparatus (ASN) in the Surabaya City Government. In the *E-Performance* application, there is also a salary calculation based on the activities inputted by ASN employees.

From the calculation of the estimated cost and effort in the *E-Performance* application, the Surabaya City government using the FP and UCP methods produces the FP method with an estimated cost of Rp. 1,305,571,860 and an estimated business of 25,899.54 *man / hour* and UCP with an estimated cost of Rp. 429,974,141.5 and estimated business 8,529.70 *man/hour*.

Keywords *: Cost Estimation, Function Points, Use Case Points, E – Performance*