



An Effort and Defect Measuring Technique for Effective and Quality Software Development

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Abstract:

Software is becoming an essential and important part of all domain systems. To have a reliable and secure system it is very important to develop a quality software. A quality software domain systems need to facilitate the significant functionality and innovation required. But it needs a significant amount of time and effort for validation, verification, and security to provide a quality and reliable software. But, it is very challenging in software engineering to measure the required time, effort and predicting its deficiencies. This paper proposes an Effort and Defect Measuring Technique required for a quality software development. The technique works in two phases: (1) Effort Measuring Technique (EMT) and, (2) Defect Measuring Technique (DMT). The results of these two techniques can support in effectively allocating the resources for developing and validating the software effectively and more effort on defect-prone code for quality software. The EMT works on perceptive technique to measure the time and effort, whereas, DMT uses machine learning techniques to classify the detected code can be useful for quality assurance team and also minimizing the effort and cost. The evaluation is made utilizing the NASA PROMISE datasets to show the improvisation of the proposal.

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