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OBJECT ORIENTED READING TECHNIQUES: TOWARD NEW INSPECTION TECHNIQUE

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ABSTRACT

Software inspection is one of the industry best practices for delivering high-quality software. However, little research has been done to investigate their application to Object-Oriented systems, which is very different in structural and execution models compared to procedural systems. Although the effectiveness of the Object-Oriented Reading Techniques (OORTs), all of them have weak points which affect the results of the inspection process. This research describes a new OORT that may help in eliminating the demerits of the existing techniques.

This research aims to propose a new OORT in attempt to solve the limitations of the existing OORTs. In the way of building the proposed technique some powerful features of the current OORTs such as checklist questions of the Checklist Based Reading (CBR) technique and the instructions feature of both the CBR and Perspective Based Reading (PBR) are used. A set of Process are added in conjunction with the chosen features in a specific order to eliminate the limitations of the existing OORTs. Investigating the proposed technique showed that it can help in enhancing the field of Object Oriented Code Inspection (OOCI) through saving time, solving the problem of delocalization, declaring the flow of the inspected code, and dealing well with the OO nature; but it failed to find a complete solution for chunking OO code.