Empirical Comparison of Test Data Generation Techniques using Activity Diagrams

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Abstract

UML (Unified Modeling Language) is now a leading standard for defining software processes. Test data generation is advantageous in early phases of software development. Activity diagrams are user and developers' friendly because of the ease in their understanding. Many papers have presented techniques for test data generation using activity diagrams. These techniques have their own specific benefits considering required test data to be generated. On application of these techniques on same input i.e. activity diagrams, differences and similarities emerge evidently. These outcomes can provide clarity among testers, so as to decide upon the technique for test data generation depending upon the phase and type of test data required. In this paper we performed a comparative study of the five techniques of test data generation based on activity diagrams using ten examples.

References

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- Lori A. Clarke, "A System to Generate Test Data and Symbolically Execute
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**Index Terms**

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