Abstract

In the current scenario, the performance evaluation of the software system is one of the major factors of the software development that helps to develop the quality oriented software. There are many performances optimizing techniques which are used for evaluating the performance of the software systems. Many of the researchers have used the optimization techniques i.e. Markov chain to find out the performance of the object-oriented software design. The present papers is based upon the evaluating the performance of the designed UML model for a real case study of Life Insurance of India (LIC). The performance is evaluated for sharing the attributes by the UML classes. The concept of the probabilistic adjacency metric is used and Dijkstra's algorithm is applied to compute the optimal path.

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Index Terms
- Computer Science
- Software Engineering

Keywords
- UML
- Markov Chain
- Class Diagram
- Sequence Diagram
- Adjacency Metric and
- Dijkstra's Algorithm