Abstract

In today’s marketing scenario, the software companies have the challenge to provide a vast variety of customized software products option to satisfy diversified customers’ requirements. Although increasing product varieties increase sales volume and profits, but it also raises development complexity, time and cost. In order to address the issues, companies are moving towards Software Product Line Engineering (SPLE) which helps in providing large varieties of products with minimum development effort and cost. This approach amalgamates component based development and feature based development, both of which are based on the concept of reusability and facilitate the development of a family of products. This paper tries to propose an improved framework for software product line. Cross-cutting concerns such as security and configurability are addressed in this framework. Further, the proposed framework is compared with selected state of art frameworks.


**Index Terms**

Computer Science  
Security

**Keywords**

Software Product Line, feature coverage, variability, comparison framework, product line methods, feature modeling.