Abstract

Reusability in software engineering is one measure of quality software, which has ability to provide the construction for other different elements in the same or different system software (Micallef, 1987). In the maximum utilization, e-commerce using web services to improve the business scalability. REST web service has several advantages over other web service, because REST is lightweight and easy to develop. REST web service development with PHP and the OOP approach has shortcomings in dealing with the crosscutting concerns. So, it would require better approach, this approach is called AOP which has specifically to handle crosscutting concerns. The results of the reusability metrics with consideration of understandability and flexibility in whole system or API class, the AOP approach is more reusable than the OOP approach on the REST web service.

Keyword : *web service,* REST, OOP, AOP, PHP, *e-commerce*