Abstract

Many of the programmers move towards object oriented programming languages due to its reusability nature, whereas in procedural programming languages reusability is not allowed, which may contribute to the high cost of development. Most of web browsers make use of JavaScript as a user interactive program that is a client side program due to its active nature. In the client side programming it is practiced to enable user interaction, control browser activities and alters the content changes made by user dynamically. On the server side programming language, it is used for desktop and mobile application growth. JavaScript is mainly applied for maturation of object oriented web application development because of its supportability of inheritance via prototyping and also properties and methods. In this work the various object oriented concepts are discussed. The methods and operation supported by the object oriented JavaScript language is likewise talked about. Its nature of operating methods, type refinement of JavaScript language, various access control mechanisms over JavaScript language is discussed. The enabling of transaction control over JavaScript language is also elaborated.
- Simon Holm Jensen, Anders Möller, and Peter Thiemann, "Type Analysis for JavaScript", Aarhus University, Denmark, 2009
- Holger M. Kienle, "It's about time to take Javascript (more) seriously", IEEE Software published by the IEEE Computer Society, 2010
- Rodolfo Toledo and Éric Tanter, "Access control in java script", In university of chile, 2011
- Mohan Dhawan, Chung-Chieh Shan, Vinod Ganapathy, "Enhancing JavaScript with Transactions", Published in Proceedings of ECOOP's;12, 2012

**Index Terms**

Computer Science Programming Languages

**Keywords**

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