

IMPROVED AUTHENTICATION TECHNIQUE TO PROTECT WEB APPLICATIONS

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ABSTRACT

In our daily life, web applications have become an integral part. The major challenge of security in web applications is SQL injection attack which is top ten attacks according to Open Web Application Security Project. SQL injection attacks mainly focuses databases that are accessible through a web front end and take advantage of weak points in the input validation logic of web components. In the last few months, vulnerabilities in the application level have been exploited with serious consequences by hackers.

But there are no correct approaches able to give proper solution to this problem. SQL injection attacks can be easily prevented by applying more secure authentication schemes in login page itself. While many approaches have been proposed to address the vulnerabilities in the web application but which approach is more convenient and can also provide fast access to application without compromising security is also major concern. In this paper, we proposed an authentication mechanism for web applications which encrypts the user's data like username and password by using SHA-3.

KEYWORDS: Authentication, SQL Injection Attack, Vulnerability, Web Application Security