

FATIGUE DETECTION SYSTEM

A PROJECT REPORT

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ABSTRACT

Many software systems have evolved to include a Web-based component that makes them available to the public via the Internet and can expose them to a variety of Web based attacks. One of these attacks is SQL injection, which can give attackers unrestricted access to the databases that underlie Web applications and has become increasingly frequent and serious. This approach presents a new highly automated approach for protecting Web applications against SQL injection that has both conceptual and practical advantages over most existing techniques. From a conceptual standpoint, the approach is based on the novel idea of positive tainting, character level and syntax-aware evaluation. From a practical standpoint, our technique is precise and efficient, has minimal deployment requirements, and incurs a negligible performance overhead in most cases. We have implemented our techniques in the Web Application SQL-injection Preventer (WASP) tool, which we used to perform an empirical evaluation on a wide range of Web applications that we subjected to a large and varied set of attacks and legitimate accesses.