

Every three years the Open Web Application Security Project releases a report detailing the ten most prevalent and dangerous web application vulnerabilities with the most recent report being released in May of 2013. OWASP provides risk assessments of vulnerabilities and pushes for awareness efforts within the industry. The awareness efforts explicitly limit themselves to presenting analysis of vulnerabilities and are not an application security program, but rather a foundation for such programs.

This project, Exploit Avoidance Training, is a web-based training and evaluation system targeted at software engineers with limited web application development experience. OWASP identifies a lack of developer awareness and experience with many of these flaws as a key contributing factor in the widespread nature of these exploits. The EAT system utilizes reference material including news articles, technical references, and code samples to present the vulnerabilities. EAT follows the reference material with exercises and evaluations designed to coach developers into producing defect free code. The system can be considered a training extension based on OWASP's material. The entire system runs on Google App Engine and related Google cloud services to facilitate expandability and ease of deployment.