Implementing a Technique for Protection of Session Data Dependencies in Web Application

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Abstract: Security is the essential topic in web application. Online banking, e-mails, e-shopping have become an important part of our routine life. Web application vulnerabilities cause run-time errors. These vulnerabilities due to broken data dependencies leads to forceful browsing. With the forceful browsing attack, the attacker gains access to a restricted page within a Web application by supplying a URL (Uniform Resource Locator) directly (forcing the URL) instead of accessing it by following links from other pages in the application. The paper provides solution to the problem of broken data dependencies. The solution employs the tree-based data dependency concept on session data. The solution is developed using JSP/Servlets technology. The aim of this paper is to protect web application from broken data dependencies.

Keywords: Web application, forceful browsing, broken data dependencies, session data.