

Project Design Phase-I

Proposed Solution

Date	19 October 2023
Team ID	Team-591507 (10.3)
Project Name	Web Scanner

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	With the increasing complexity of web technologies, identifying and mitigating vulnerabilities within web servers have become critical to safeguard sensitive data and ensure user privacy. The aim of this project is to conduct a comprehensive web vulnerability assessment
2.	Idea / Solution description	The proposed project involves leveraging the powerful Nikto tool to conduct a thorough web vulnerability assessment. Nikto, with its extensive database of known vulnerabilities and comprehensive scanning capabilities, will be utilized to systematically scan a target website. The scanning process will meticulously examine server configurations, outdated software, potential entry points, and other security vulnerabilities. The key innovation lies in the systematic approach: the tool will be configured to perform targeted scans, identifying vulnerabilities in both well-known and obscure parts of the server. This comprehensive analysis will form the basis of a detailed vulnerability report, categorizing findings based on severity levels
3.	Novelty / Uniqueness	Unlike conventional scanning methods, this project adopts a meticulous and systematic examination of the target website, exploring both well-known vulnerabilities and obscure entry points. By leveraging Nikto's extensive database and advanced scanning capabilities, it delves deep into the server's configurations, identifying vulnerabilities that might otherwise be overlooked. The generated detailed vulnerability report not only lists potential security loopholes but also provides a nuanced understanding of their implications, enabling website administrators to prioritize and address them effectively.
4.	Social Impact / Customer Satisfaction	By systematically identifying and addressing vulnerabilities in websites, this project directly enhances the overall security of online platforms. In an era where cyber threats pose significant risks to businesses, individuals, and even governments, fortifying web security translates into safeguarding sensitive user data, financial information, and privacy. This, in turn, fosters trust among users, encouraging them to engage with online platforms more freely, knowing that their information is protected.
5.	Business Model (Revenue Model)	Offer subscription packages to businesses and organizations that need regular web vulnerability assessments. Subscribers can choose different tiers based on the frequency of scans, the depth of analysis, and the level of support. This model ensures a steady stream of income and fosters long-term relationships with clients.
6.	Scalability of the Solution	Cloud-Based Infrastructure, Parallel Processing, Automated Scaling, Distributed Computing, Optimized Algorithm, API Integrations etc.