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## Vulnerability Scanner

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### ABSTRACT

Security of information and communication systems has become one of the most crucial concerns for both system developers and users. The threats to our computer network infrastructure are increasing and constantly changing in every day. Hackers are launching more sophisticated attacks on every possible weakness in our computer network system and trying to damage or crush our security system. It is crucial that we train adequate cybersecurity professionals to defend our system and prevent cyberattacks. One of the main reasons of successful attacks, malicious intrusions and virus infections are software vulnerabilities in computer systems and other devices

Keywords: Cross side script, SQL injections, CMS Scanner

### 1. INTRODUCTION

A vulnerability scanner is a computer program designed assess computers, networks or applications for known weaknesses. These scanners are used to discover the weaknesses of a given system they are utilized in the identification and detection of vulnerabilities. Modern vulnerability scanners allow for both authenticated and unauthenticated scans. With the increasing concern for security in the network, many approaches are laid out that try to protect the network from unauthorized access. New methods have been adopted in order to find the potential discrepancies that may damage the network. Most commonly used approach is the vulnerability assessment by vulnerability, we mean, the potential flaws in the system that make it prone to the attack. Assessment of these system vulnerabilities provide a means to identify and develop new strategies so as to protect the system from the risk of being damaged. This paper explores a number of methods for combatting this class of threats and assesses why they have not proven more successful. Vulnerability scanning as one of the initial steps in ethical hacking and network defence education. However, these advantages create a target for malicious cyberattacks. Higher education institutions depend on the confidentiality and integrity of sensitive data stored at their facilities (e.g., intellectual property, financial data). Institutions The paper describes the current best practices for minimizing these vulnerabilities and points to promising research and development in the field.

### 1.2 PROPOSED SYSTEM

The system tends to replace the existing manual system for the scanning process which is a time consuming less interactive. The main features of this system will be creating report and find various type of vulnerabilities, storing and scanning data, process initiation and after that and cms(content management system) scanner of this website generates a report of whole scanned websites.

### 1.3 PROPOSED SYSTEM ADVANTAGES

User friendly registration system

- Fastest web crawler

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- Easy to control session
- Free registration
- Fastest scanner
- Search for a particular websites if once it is used

## 2. SCOPE OF THE PROJECT

One-step installation.

Executes a multitude of security scanning tools, does other custom coded checks and prints the results spontaneously.

Saves a lot of time, indeed a lot time.

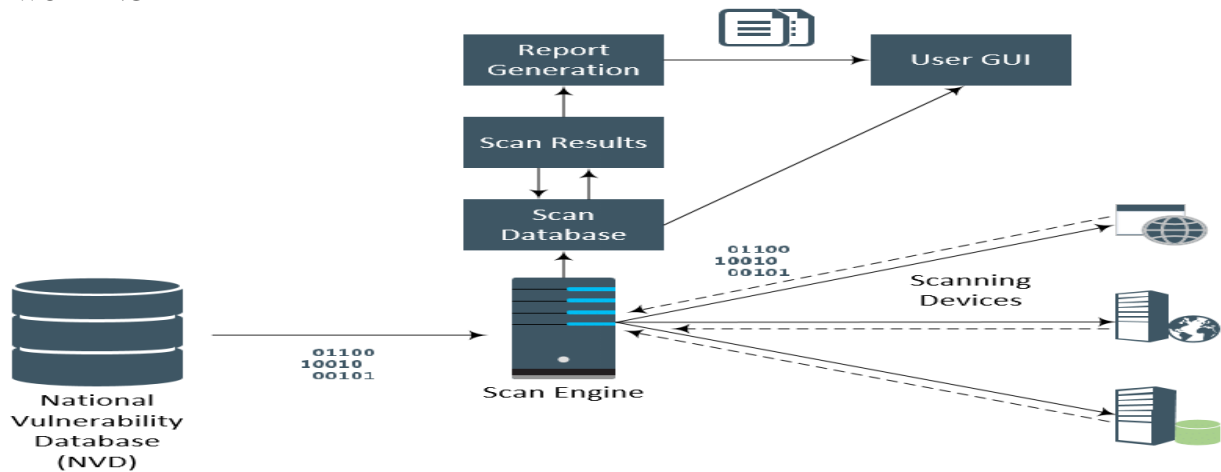
Checks for same vulnerabilities with multiple tools to help you zero-in on false positives effectively.

Extremely light-weight and not process intensive.

Critical, high, medium, low and informational classification of vulnerabilities.

Vulnerability definitions guides you what the vulnerability actually is and the threat it can pose.

### 2.1 WORKING



## 3. CONCLUSION

The project provides much security. The simplicity and friendliness are the advantages of this project. The Software is made user friendly to the maximum so that anyone can run the software provided he could access to the system via the login password. This project manages all details without any risk. All the objectives were met with satisfaction. The performance of the system is found to be satisfactory.

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