iJRASET
International Journal For Research in Applied Science and Engineering Technology

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 8 **Issue:** IV **Month of publication:** April 2020

DOI:

www.ijraset.com

Call: 08813907089 | E-mail ID: ijraset@gmail.com

International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429
Volume 8 Issue IV Apr 2020- Available at www.ijraset.com

Stress Buster

Pooja M Bharti[1], Nikita M Agrawal[2], Shashank S. Chaurasiya[3], Mohamad Mohsin R. Indawala[4]
[1]*Assistant Professor, Laxmi Institute Of Technology, Sarigam*
[2, 3, 4]*Student, Laxmi Institute Of Technology* , Sarigam

Abstract: ***The project Stress Buster deals with the testing of WordPress websites including performance and security testing. Testing is a major part development process. Performance testing is in general a testing practice performed to determine how a system performs in terms of stability under a particular workload. Security testing is a process intended to reveal flaws in the security mechanisms of an system that protect data and maintain functionality as intended. Our project includes testing of particular WordPress Websites through an Android Application which will allow the users to test their websites accordingly testing the security by attacking the website through different vulnerability tests and attacks to check security and performance.***
Keywords: Security, Wordpress, Performance, Android Application, Websites

I. INTRODUCTION

Stress Buster is a project based on website testing to perform testing for performance and security of WordPress website through an Android Application. User is allowed to decide testing according and provide the website link for required testing. In performance testing module provide load testing. In security testing user can test by attacking website through WordPress Security Scan, SQL Injection and XSS Attack. After testing user will get result according to testing. There is no Android Application for website testing. There is many difficulties which normal people are facing like command lines are not understandable by normal user, there are other software which is easily understand by normally user but it's too costly, also has long user response time, long server response time, High CPU usage. Too many open connections which are no update of connection process details, so to overcome these problems we will provide all these services via website and android application which will make people easily interactive. The Android application is going to be developed to have better facility for website testing by normal user through web view. It will be Web application or Android application which uses testing tools for testing the website, php as the database which supports huge data in it. It uses web form and Android Platform. This system can be used for user website Testing services.

II. LITERATURE SURVEY

Kernel-based network security infrastructure [1] says that a system and method for network security using a kernel based network security infrastructure is disclosed. Sometime on firewall some variability doesn't detect due to port errors.

Behavior on the data analysis [2] says that an evaluation of generating performance, stress, load and security for good experience. It uses data source as past performance metrics memory usage metrics execution logs. There are distributed and chargeable tools.

System and method for generating an evaluation in a performance evaluation system [3] say that in response to a request for an evaluation including a performance area, questions associated with the performance area are included in the evaluation.

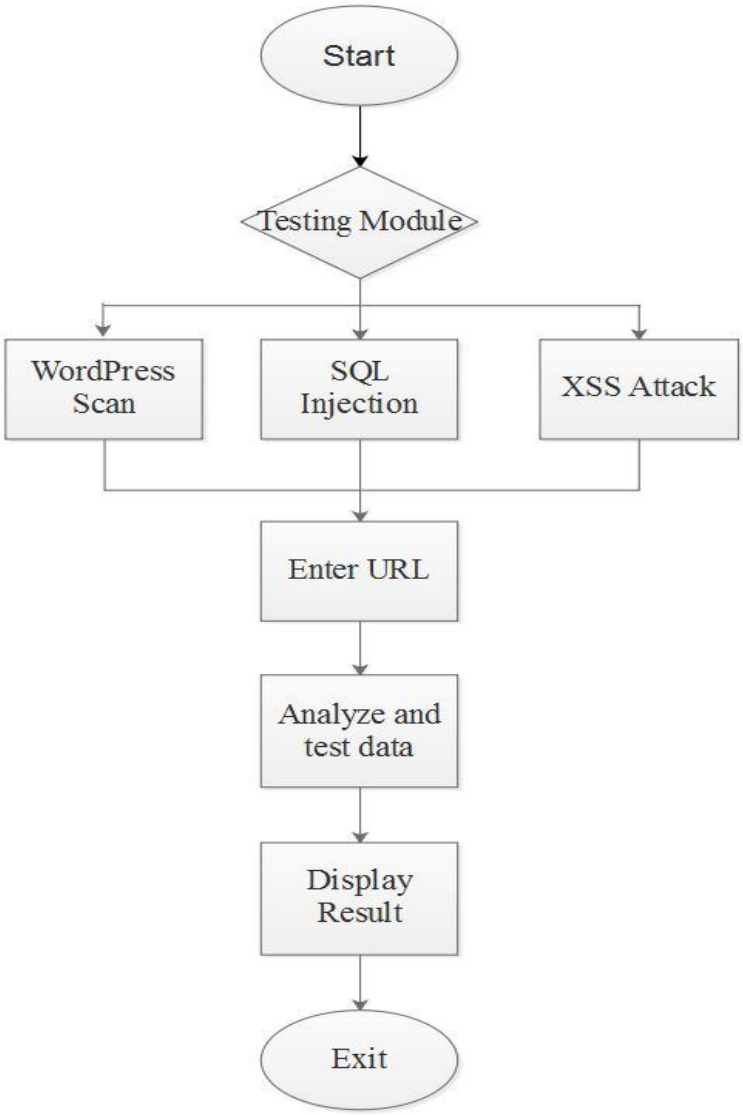
A study of network security using penetration testing [4] In the network security cybercrime technologies have brought many good things by internet: e-commerce, easy access of reference material, collaborative computing, e-mail, and new avenues for advertising and information distribution. Web server, or implant software that will secretly transmit their organization's secrets to the open Internet. They are afraid that some hacker will break into their Web server and replace their logo, read their e-mail, steal their credit card number from an online shopping site. Network and Systems Security Assessment using penetration testing [5] can provide Network and System Administrators with a realistic assessment of security posture by identifying the vulnerabilities and exploits which exist within the computer network infrastructure. A wide variety of other information security sources are available from the Internet. The Vulnerability assessment and penetration testing of network infrastructure and human factors. Automated security threat testing of web pages [6] A method of security testing a web application is presented. The method identifies a web application to be tested, determines potential security vulnerabilities of the web application, generates one or more security tests for testing the potential vulnerabilities, and executes the security test on the web application. The results of the security testing are then used to make the web application less vulnerable to security attacks. Security attacks of web applications are fairly common occurrences. A web application typically includes one or more web pages, and vulnerability on one web page can compromise the web application or even he web site running the web application. A web page may be vulnerable to many types of attacks.

©IJRASET: All Rights are Reserved

Security testing of web applications is difficult and time consuming. Security of a web application is often times not specified as part of the application. Specifying security is very difficult, and implementing security measurements may not be correct. Security testing of a web application is also difficult. Furthermore, security testing of web applications requires extensive domain-specific knowledge. Also, new methods of breaking into web sites are found regularly, leading to the need to continuously track new security vulnerabilities. One type of attack involves cookie stealing. Cookies are defined as small data files written to a user's hard drive by some web sites when the user views the website by way of a browser. These data files contain information the web site can use to track such things as passwords, lists of pages the user has visited, and the date when the user last looked at a certain page. The stealing of cookies can be used to gain access to a user's account on a web site or to provide information (such as credit card information) regarding the user. Once this information gets into the wrong hands, the attacker can access the web site and the user's information can be used by the attacker to perform a variety of tasks.

III. METHODOLOGY/ PROPOSED APPROACH

An efficient system with greater accuracy is proposed for StressBuster . The steps of the process are brought forward as how the testing is performed.



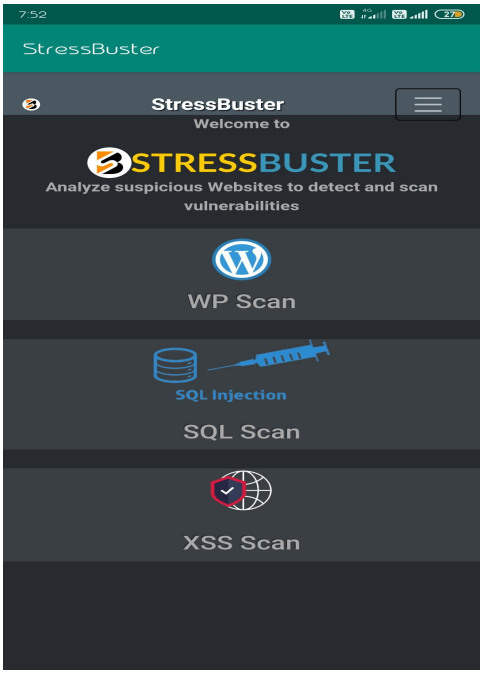
©IJRASET: All Rights are Reserved

IV. IMPLEMENTATION WORK

The process will be carried out in the following steps

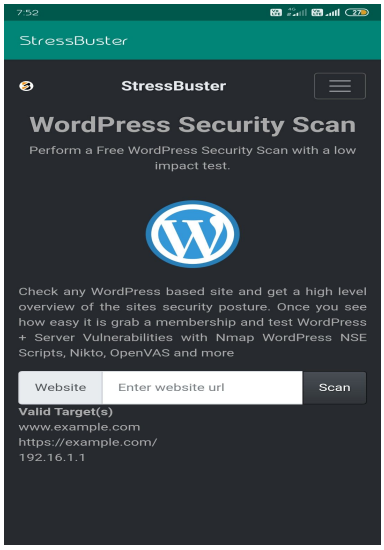
A. Start the Android application
B. Select the testing, provide the link accordingly
1) WordPress Security Scan
2) SQL Injection
3) Cross Site Scripting (XSS) Scan
C. Check the Result

Home Page

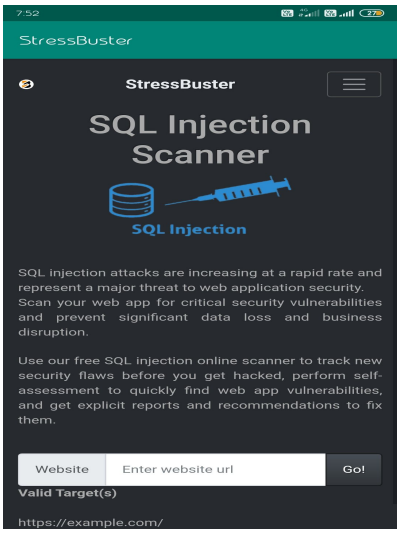


Web View

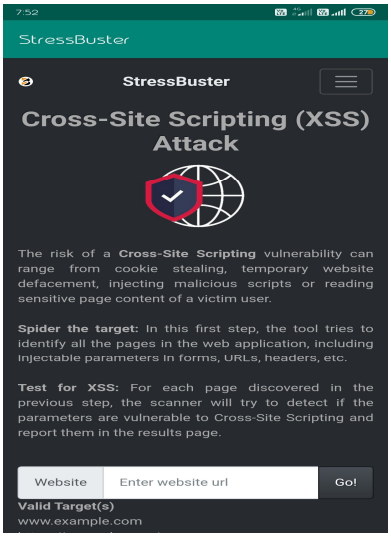
©IJRASET: All Rights are Reserved



WordPress Security Scan



SQL Injection Scan



Cross-Site Scripting (XSS) Attack Scan

©IJRASET: All Rights are Reserved

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429
Volume 8 Issue IV Apr 2020- Available at www.ijraset.com

V. CONCLUSION & FUTURE WORK

The Android Application provides the testing in integrated testing modules, helps in reducing the work and handling the website testing in short span of time. The tool will be useful to test different attacks like WordPress Security Scan, SQL Injection Attack and Cross-Site Scripting (XSS) Attack by attacking the websites through the testing tool to test their vulnerability level. User is allowed to decide testing according and provide the website link for required testing. So, we will make a website in that user can easily test their website by just providing website links and testing them.

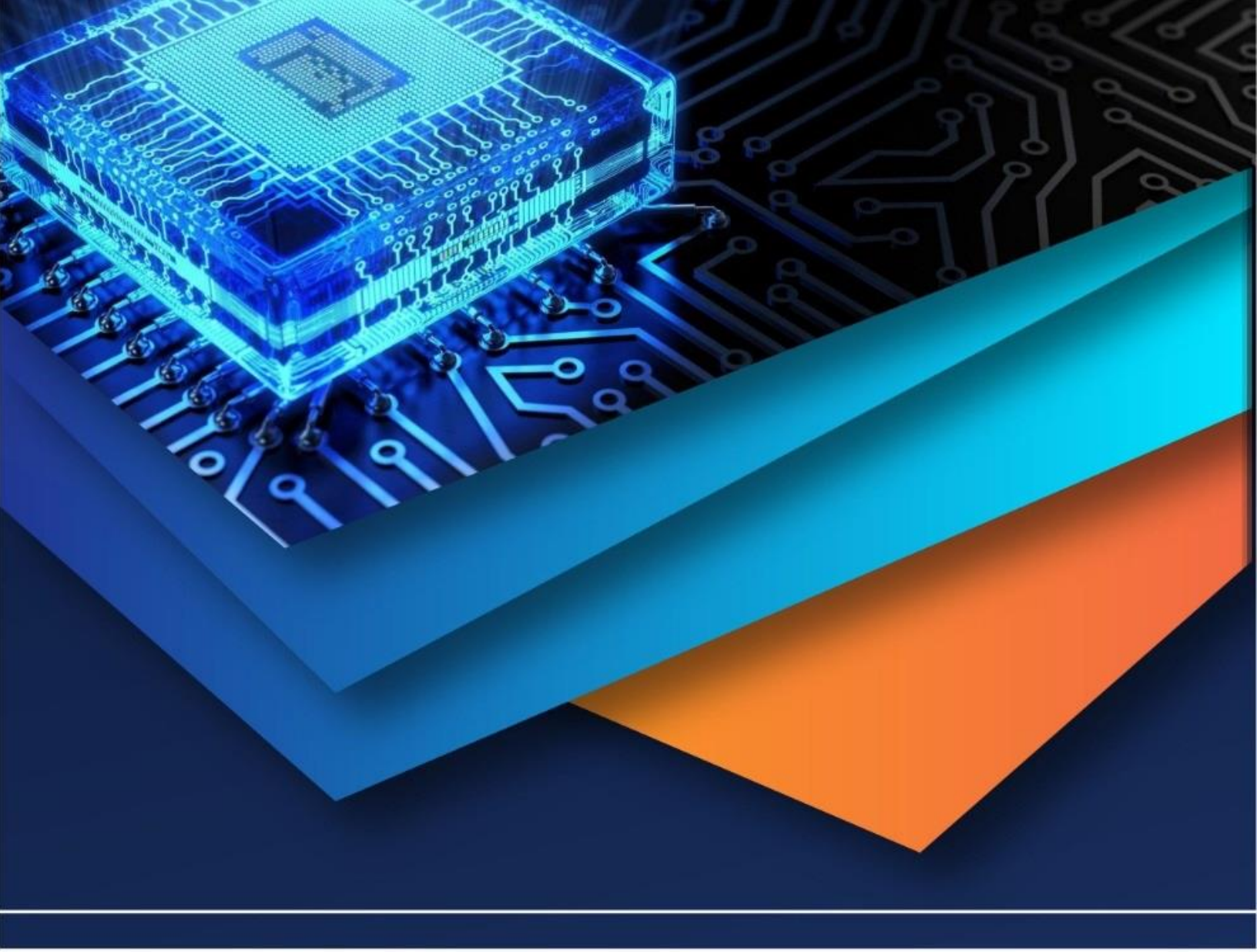
Security: Broken authentication and session management encompass several security issues, all of them having to do with maintaining the identity of a user. Insecure direct object reference is when a web application exposes a reference to an internal implementation object. Penetration testing is the art of using different tools to get unauthorized access to a victim's computer. The tool will be useful to test different attacks like Brute force attack by attacking the websites through the testing tool to test their vulnerability level.

Performance: It tests overall site stress, checks durability of site. By generating fake traffic bots it checks server capacity and generate logistic diagram for simple understand over view. It also checks the website bounce rate to test the websites by counting the number of single page visits and dividing that by the total visits by the users and will represent as a percentage of total visits.

REFERENCES

[1] https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnx2bXA 4MDgyfGd4OjNiZDgxZmY2MjRkMmQ2NmE
[2] https://www.essaysauce.com/essays/engineering/essay-2016-10-16-000BgS.php
[3] https://www.qmul.ac.uk/modules/
[4] https://pdfs.semanticscholar.org/3ca1/5e6569fc7eb5063fb2b624f27af146ed4286.pdf
[5] http://bankofinfo.com/sample-acknowledgement-for-internship-report/
[6] https://www.quora.com/What-is-the-differnce-between-security-testing-and-the-security- audit
[7] https://www.slideshare.net/ketulshukla1/report8sem
[8] https://1000projects.org/projects/bca-projectshttps://www.softwaretestinghelp.com/web-application-testing

©IJRASET: All Rights are Reserved



10.22214/IJRASET

45.98

IMPACT FACTOR: 7.129

IMPACT FACTOR: 7.429

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089 (24*7 Support on Whatsapp)