FINAL YEAR PROJECT REPORT

WEB APPLICATION VULNERABILITY SCANNER (WAVS)

In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)

By

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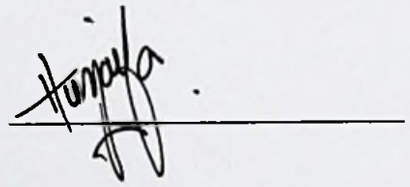
SPRING-2023

DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Signature : 

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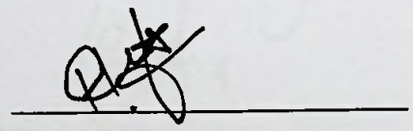
Signature : 

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APPROVAL FOR SUBMISSION

We certify that this project report entitled **"Web Application Vulnerability Scanner"** was prepared by **Huzaifa Shahid and Hasnain Abbasi** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of Science in Computer Science at Bahria University, Karachi.

Approved by,

Signature : _____

Supervisor : Sir Saghir Ahmed

Date : _____

Specially dedicated to

My beloved grandmother, mother and father

Huzaifa Shahid

My beloved grandmother, mother and father

Hasnain Imtiaz Abbasi

(This dedication page is optional)

ACKNOWLEDGEMENTS

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express my gratitude to my project supervisor, Sir **Saghir Ahmed** for his invaluable advice, guidance and his enormous patience throughout the development of the research.

In addition, we would also like to express our gratitude to our loving parents and friends who have helped and given us encouragement.

WEB APPLICATION VULNERABILITY SCANNER

ABSTRACT

The internet has provided a vast range of benefits to society, and empowering people in a variety of ways. Due to incredible growth of Internet usage in past decades, everyday a number of new Web applications are also becoming a part of World Wide Web. The distributed and open nature of internet attracts hackers to interrupt the smooth services of web applications. Some of the famous web application vulnerabilities are SQL Injection, Cross Site Scripting (XSS) and Cross Site request Forgery (CSRF). We believe that in order to encounter these vulnerabilities; the web application vulnerabilities scanner should have strong detection and prevention rules to ease the problem. The result of the experiment shows proposed vulnerability scanner tool WAVS which gives less false positive and detect more vulnerabilities in comparison of well-known black box scanners. The system being developed will be a Web application system based on Net framework using PYTHON. It is an "SCANNER" tool which will be used by IT project developers, clients and even IT students For Cybersecurity. The basic feature of this website will be to provide a communication channel between a client, seeking a WEB for any vulnerabilities, and the Attacker, seeking for crediential for which they will be paid. The client as well as the Website is required to sign up to the website so they can be considered as the member of the Tool. The Web will have to pass an online test in order to indication of bugs in the online bidding of the projects available on the website. The system will also provide a reporting and a discussion board which will be used for communication between the clients, developers and other interested parties, in an effective and efficient manner.

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