JGI JAIN DEEMED-TO-BE UNIVERSITY | SCHOOL OF COMPUTER SCIENCE AND IT

Department of
Bachelor of Computer Applications

Information Security & Mobile Applications – Section <A>

Ethical Hacking Fundamentals

Activity #01

LinkedIn Learning Certification Course
[Part-V: Hacking Web Servers & Web Applications]

Subject Code: 19BCA4C02
Class: IInd Year IInd Semester

Submitted On:
23-12-2022
By:
Suman Garai
20BCAR0246

Signature

Faculty In-Charge:
Dr. Ajay Shriram
Khushwaha

Signature

JAIN DEEMED-TO-BE UNIVERSITY | SCHOOL OF COMPUTER SCIENCE AND IT

Certificate

This is to certify that Mr./~~Ms.~~ Suman Garai with USN 20BCAR0246 has satisfactorily completed the Activity I Part 1 LinkedIn Course Name: Hacking Web Servers & Web Applications Hours: 1 hour 26 minutes prescribed by Department of BCA, School of Computer Science & IT, Jain (Deemed-to-be-University), Bengaluru for the partial fulfilment of fifth semester BCA Degree Course in the year 2021-2022, and has secured _____ out of 10.

23-12-2022
Date of Submission

Signature of Student

Signature of Faculty In-Charge

Evaluation Criteria

Sr. No.	Criteria / Parameters	Total Marks	Marks Obtained
1	On-time submission Certification	05	
2	Certification of Completion	05	
3	Report (with Assessment Screenshots test attempted)	05	
4	Conclusion [Minimum one page without any kind of plagiarism]	10	
	TOTAL	25	
	CONVERT	10	

JGI JAIN DEEMED-TO-BE UNIVERSITY | SCHOOL OF COMPUTER SCIENCE AND IT

Table of Contents

Sl. No.	Title	Page No.
1	Introduction to the Course	5
2	Screenshots with name and section	6-7
3	Conclusion	8
4	Certificate	9

Introduction to the Course

Websites and web applications are—by their very nature—accessible remotely, which puts them at high risk of cyberattacks. Knowing how to detect and prevent web attacks is a critical skill for developers and information security professionals alike. We started by explaining web protocols and the basics of web design. And looked at the OWASP top 10 web vulnerabilities. We saw demonstration some of the popular tools available to do web testing, including Burp Suite, ZAP and WebScarab. And saw how to use these to scan websites and run as web proxies. We also look at some websites, where we can practice your web testing. After finishing this course, we have a great understanding of how to test for website weaknesses.

Learning objectives

- Key elements of web-based applications
- Working with cookies
- Web testing with WebGoat and Burp Suite
- Running basic tests, such as fingerprinting web servers
- Advanced testing, including testing for SQL injections

Screenshots

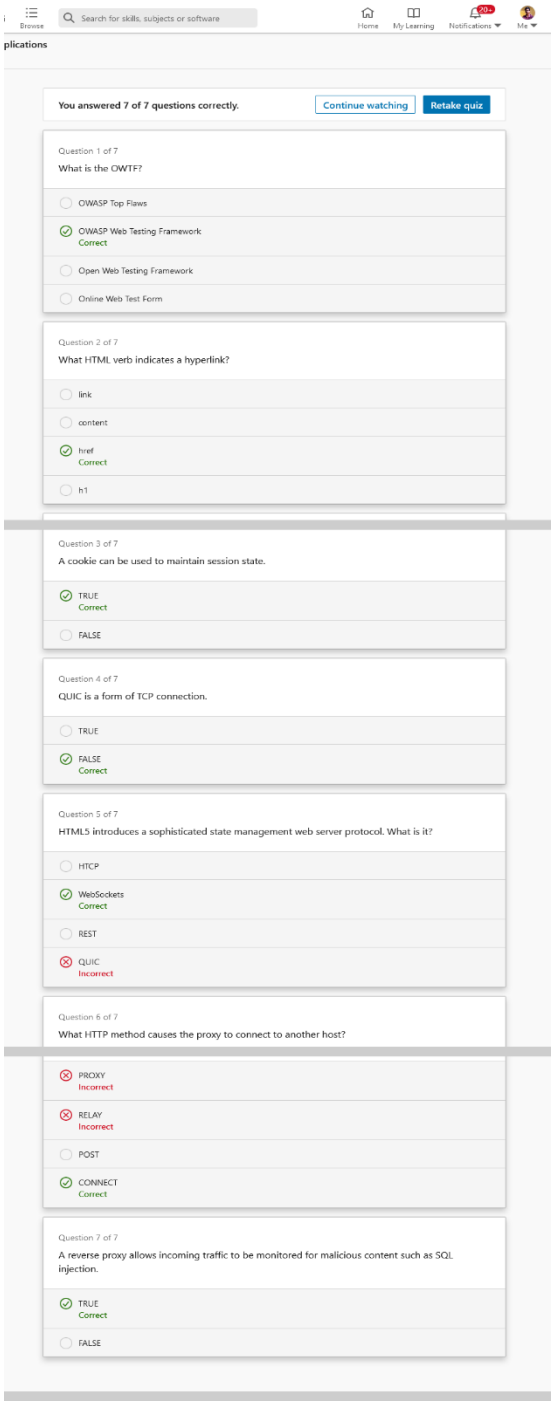

Figure: Section 01 – Introduction to Web Servers

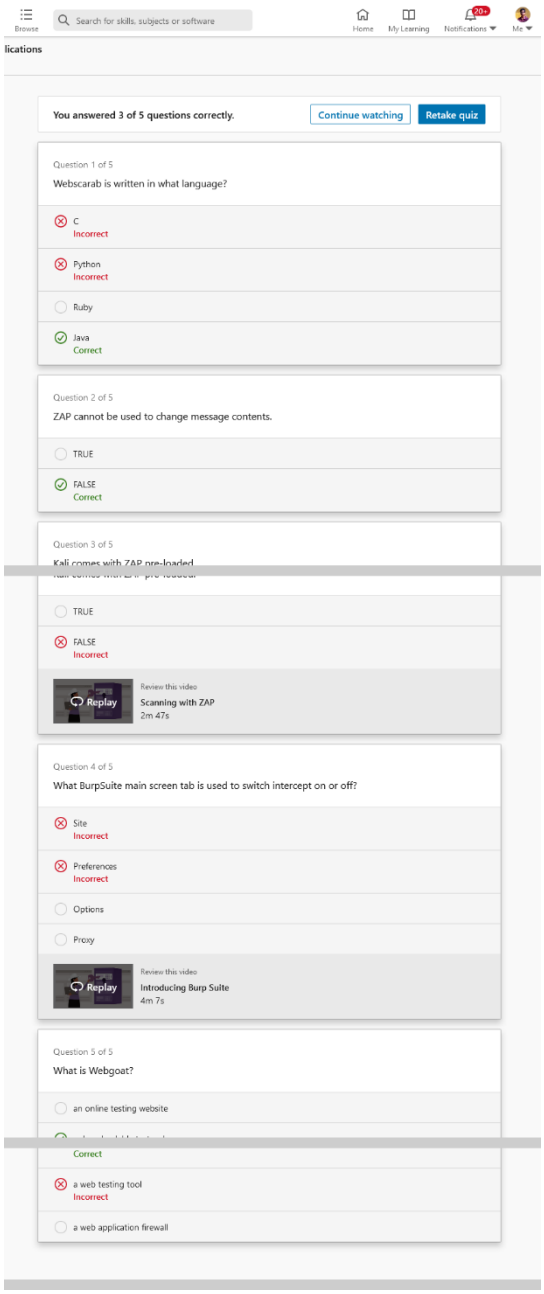

Figure: Section 02- Getting Ready to Test

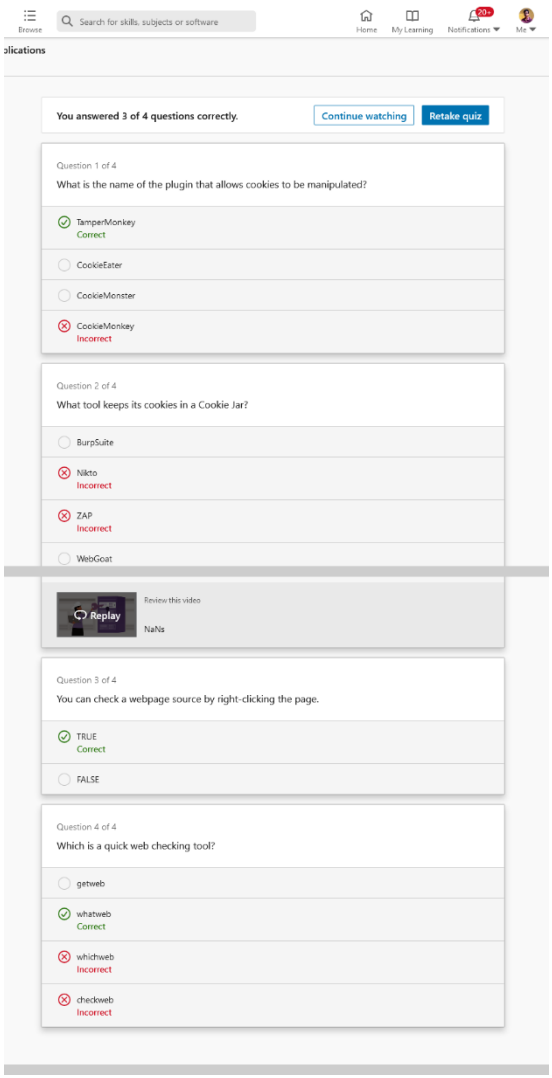

Figure: Section 03 – Running Basic Application Tests

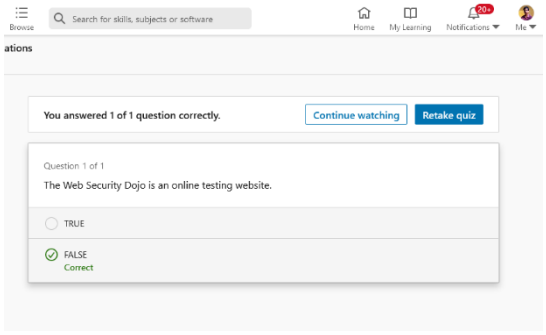

Figure: Section 05 – Practicing Your Skills

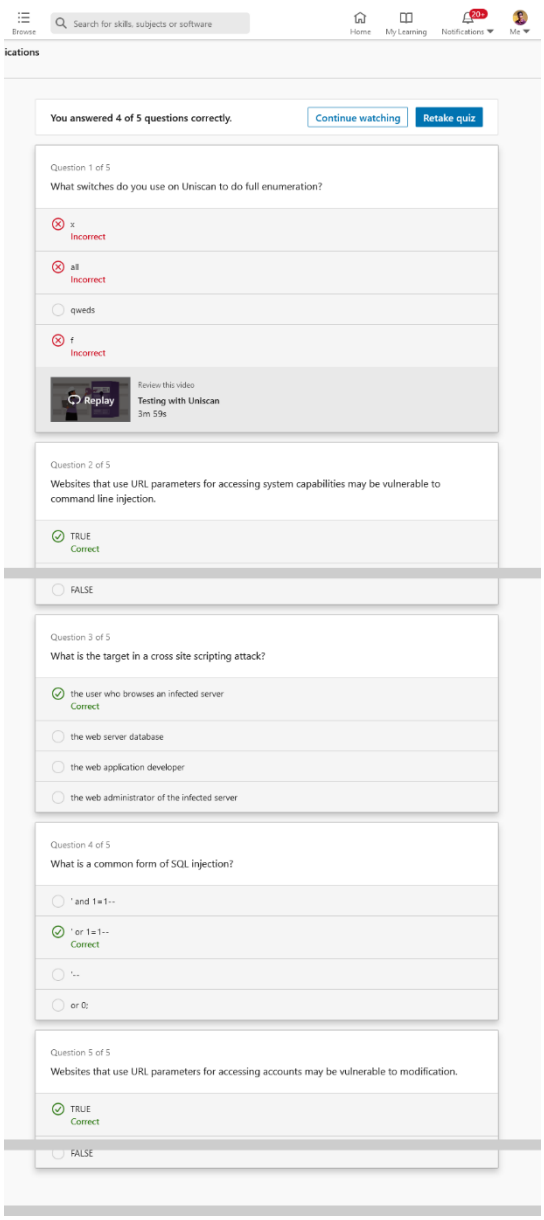

Figure: Section 04- Advanced Web Application Tests

Conclusion

In this course, we have learnt the concepts of web applications and covered topics such as - Core defence mechanisms, Web application technologies, Bypassing client-side controls, Dissecting the HTTPS protocol, Web sockets, cookies, QUIC Protocol, OWSAP, ZAP & Zero Bank, Authentication and authorization, XSS – Cross site scripting, Bypassing blacklists and whitelists, CSRF – Cross site request forgery, Unvalidated redirects, SQL injection, File upload vulnerabilities, Attacking the application server, Web application hacker's toolkit, and Web application hacker's methodology.

Certificate