

Assignment - 9

of

Cyber Security Laboratory

(CSE612)

Bachelor of Technology (CSE)

By

Ramoliya Kaushal (22000409)

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Course In-charge: Prof. Ninad Bhavsar



**NAVRACHANA
UNIVERSITY**
a UGC recognized University

Department of Computer Science and Engineering

School Engineering and Technology

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Q1. Perform online vulnerability scanning using following online vulnerability scanners:

<https://pentest-tools.com/website-vulnerability-scanning/website-scanner>

<https://www.immuniweb.com/websec/>

You may try out different types of URLs like .com, .gov.in, .org, .ac.in, etc. on above links. They will produce a vulnerability report. Create a report of all vulnerabilities listed from different online tools of above. You may keep the data set (the list of URLs to be scanned) the same for all of the above online tools. Mention in the report your findings regarding which vulnerabilities were common and which ones were relatively uncommon.

What Tools to Use

- [Pentest-Tools Website Scanner](#)
- [ImmuniWeb WebSec Scanner](#)

Step 1: Prepare List of URLs to Scan

Select some websites.

No.	Website URL	Type
1	https://www.google.com	.com
2	https://www.mit.gov.in	.gov.in
3	https://www.wikipedia.org	.org
4	https://www.iitm.ac.in	.ac.in

Step 2: Scan Using Pentest-Tools

- Open [Pentest-Tools Website Scanner](#).
- Enter URL (<https://www.google.com>)
- Select "Light Scan" (if it asks).
- Click Start Scan.
- Wait until scan finishes.

- Enter URL (<https://www.google.com>)
Website: <https://www.google.com>
Report Link: [WebsiteScanner www.google.com report.pdf](#)
- Enter URL (<https://www.wikipedia.org>).
Website: <https://www.wikipedia.org>
Report Link: [Website Scanner www.wikipedia.org report.pdf](#)
- Enter URL (<https://www.isro.gov.in>).
Website: <https://www.isro.gov.in>
Report Link: [Website Scanner www.isro.gov.in report.pdf](#)
- Enter URL (<https://www.nitc.ac.in>).
Website: <https://www.nitc.ac.in>
Report Link: [Website Scanner-www.nitc.ac.in report.pdf](#)

Vulnerability Scan Analysis

Website	Common Vulnerabilities Found	Special/Unique Findings
ISRO (isro.gov.in)	<ul style="list-style-type: none"> - Missing Referrer-Policy - Unsafe Content-Security-Policy - Server info exposed - Missing security.txt file 	Mostly related to weak HTTP headers
Wikipedia (wikipedia.org)	<ul style="list-style-type: none"> - Missing Content-Security-Policy - Missing X-Content-Type-Options - Missing Referrer-Policy - Insecure cookies 	Cookie misconfigurations (HttpOnly, loose domain)
NITC (nitc.ac.in)	<ul style="list-style-type: none"> - Missing Strict-Transport-Security - Missing Content-Security-Policy - Missing X-Content-Type-Options - Missing Referrer-Policy 	Very focused on missing important security headers
Google (google.com)	<ul style="list-style-type: none"> - Missing Content-Security-Policy - Missing X-Content-Type-Options - Missing Referrer-Policy - Insecure cookies 	Unsafe CSP settings, and cookie domain issues