

Code Review Worksheet

CPSC 491/491L/492L

Review Identification Information

Date of Review:	11/19/23
Project Review is Part of:	Medcurity
Branch/PR Identifier:	0165be486c31586057218acf2905d15070cf75bc 4f06bec74f3123fbcaab8876763bc9979f4bf346
Code Reviewer(s):	Artis Nateephaisan
Code Author or Source of Code:	Jack Nealon

These following categories should be addressed, though not all might be applicable, it will depend upon the project and code at hand.

#1 Project, Milestone, Issues, Features Included, and/or Pull Request description

In this sprint, Jack addressed major components of the UI and the Crawler. He changed up styling of the UI drastically and even pulled some css styling from the Medcurity website. The main crawler script seemed to be implemented as well, along with its supporting files (documentation, pkg info, readme, etc).

#2 Code Structural, Design Considerations, and Style Guide Suggestions

In terms of the structural and design considerations for the UI it looks nice. Spaced well and easy to read, so I understood the changes that were being made. There were a lot of extra lines spaced between each chunk of code in the crawler.py file, so it seemed a bit excessive, but there were also comments behind every chunk that explained what the purpose of that respective section of the code was responsible for, so that was nice.

#3 Code Architectural and Efficiency Considerations

No efficiency concerns for anything. Architecturally the code looked sound.

#4 Execution, Runtime, and Bugs

No issues with running.

#5 Documentation Quality and Completeness

Lots of documentation added for the crawler, not so much for the UI, but there wasn't much that changed yet.

#6 Testing, Tests, Coverage, and suggested testing improvements

Testing should probably be implemented down the line to test the crawler. The UI should be ok with minimal testing, since it is not as technically intensive. The crawler is responsible for most of our project, so we should ensure it works as intended.

#7 General Comments, Notes or Other Suggestions for Author

Overall I think Jack did a great job. Maybe he tackled on too much this sprint, since there were a LOT of lines added in his commits to his branch, so it was a bit intimidating to review.

#8 Appendix - Include up to five pages of the code under review as a diff.

```
48 UI/index.html
...
1 1 <!DOCTYPE html>
2 2 <html lang="en">
3 3 -
4 4 - <head>
5 5 + <head>
6 6 + <title>Network Inventory</title>
7 7 + <meta charset="utf-8" />
8 8 + <!--
9 9 + <link rel="stylesheet" href="/Font-Arefwesome-5.x/css/all.css">
10 10 + <link href="//fonts.googleapis.com/css?family=Nunito|Lato:300,400,700,900|Mul:300,400,600,700,800" rel="stylesheet">
11 11 + <link rel="stylesheet" href="styles.css">
12 12 - </head>
13 13 - <body>
14 14 - <div id="header">
15 15 - <h1 class="textlogo">Network Inventory</h1>
16 16 + <div class="">
17 17 + <a href="C:\Users\Jack\Desktop\VM\20Transfer\Project-Version-0\UI\index.html" class="logo" ></a> <!--main logo -->
19 19 </div>
20 20 - <div id="nav">
21 21 - <ul>
22 22 - <li><a href="index.html">Computers</a></li>
23 23 - <li><a href="network.html">Network</a></li>
24 24 - <li><a href="settings.html">Settings</a></li>
25 25 - <li><a href="download.html">Download</a></li>
26 26 - </ul>
27 27 + <div id="nav"><div>
28 28 + <ul>
29 29 + <li><a href="index.html">Computers</a></li>
30 30 + <li><a href="network.html">Network</a></li>
31 31 + <li><a href="settings.html">Settings</a></li>
32 32 + <li><a href="download.html">Download</a></li>
33 33 + </ul>
34 34 </div>
35 35 - <div id="container">
36 36 - <div id="main">
37 37 + <div class="header-right">
38 38 + <div class="nav-icon">
39 39 + <span class="menu-icon"><i class="fas fa-bars"></i></span>
40 40 + </div> <!-- .nav-icon ends -->
41 41 + </div> <!-- .header-right ends -->
42 42 - </div>
43 43 - </div>
44 44 - </body>
45 45 + </head>
46 46 + <body>
47 47 + <div class="header-right">
48 48 + <div class="nav-icon">
49 49 + <span class="menu-icon"><i class="fas fa-bars"></i></span>
50 50 + </div> <!-- .nav-icon ends -->
51 51 + </div> <!-- .header-right ends -->
```

```
88 crawler/python3-nmap-1.6.0/crawler.py
...
1 + import nmap3
2 + import pprint
3 nmap = nmap3.Nmap
4 nmapScanTechniques = nmap3.NmapScanTechniques()
5 pp = pprint.PrettyPrinter(indent=4)
6 +
7 +
8 + #get Nmap version details
9 + result1 = nmap.nmap_version()
10 + pp.pprint(result1)
11 +
12 +
13 +
14 + #Nmap top port scan
15 + result2 = nmap.scan_top_ports("myquest5005")
16 + pp.pprint(result2)
17 +
18 +
19 +
20 + #Nmap Dns-brute-script( to get subdomains )
21 + #results = nmap.nmap_dns_brute_script("domain")
22 +
23 +
24 +
25 + #Nmap list scan
26 + result3 = nmap.nmap_list_scan("raspberrypi")
27 + pp.pprint(result3)
28 +
29 +
30 +
31 + #Nmap Os detection
32 + result4 = nmap.nmap_os_detection("raspberrypi")
33 + pp.pprint(result4)
34 +
35 +
36 +
37 + #Nmap subnet scan
38 + result5 = nmap.nmap_subnet_scan("raspberrypi") #Must be root
39 + pp.pprint(result5)
40 +
41 +
42 +
43 + #Nmap version detection
44 + result6 = nmap.nmap_version_detection("raspberrypi") # Must be root
45 + pp.pprint(result6)
46 +
47 +
48 + #Nmap Scanning Techniques
49 + #The script offers nmap scan techniques also as python function/methods
50 +
51 +
52 + #nmap_fin_scan
53 + result7 = nmapScanTechniques.nmap_fin_scan("192.168.0.1")
54 + pp.pprint(result7)
55 +
```

```
55 +
56 +
57 +
58 +
59 + #nmap_idle_scan
60 + result8 = nmapScanTechniques.nmap_idle_scan("192.168.0.1")
61 + pp.pprint(result8)
62 +
63 +
64 +
65 + #nmap_ping_scan
66 + result9 = nmapScanTechniques.nmap_ping_scan("192.168.0.1")
67 + pp.pprint(result9)
68 +
69 +
70 +
71 + #nmap_syn_scan
72 + result10 = nmapScanTechniques.nmap_syn_scan("192.168.0.1")
73 + pp.pprint(result10)
74 +
75 +
76 +
77 +
78 + #nmap_tcp_scan
79 + result11 = nmapScanTechniques.nmap_tcp_scan("192.168.0.1")
80 + pp.pprint(result11)
81 +
82 +
83 +
84 +
85 + #nmap_udp_scan
86 + result12 = nmapScanTechniques.nmap_udp_scan("192.168.0.1")
87 + pp.pprint(result12)
88 +
```