

**Objective:**

The goal of this program is to demonstrate the use of Flask in the python programming language as it relates to HTML, web page design, and CSS. By creating three pages that link together as well as link to external pages, the basic functionality of HTML and CSS was gained and implemented.

**Test Cases:**

Below are some test cases that were used to test the web pages and python code:

<b>Test Cases:</b>	<b>User Input:</b>	<b>Predicted Output:</b>	<b>Actual Output:</b>	<b>Pass/Fail:</b>
1	Start program, http://127.0.0.1: 8080/ in browser	Navigate to main page	Navigate to main page	pass, fig 1
2	Google search 'Kevin Mitnick'	show google results for 'Kevin Mitnick'	show google results for 'Kevin Mitnick'	pass, fig 2
3	Click, 'Look a Link'	Navigate to 'Look a Link' page 2	Navigate to 'Look a Link' page 2	pass, fig 3
4	Click, 'Source' under order list of famous hackers	Navigate to source page	Navigate to source page	pass, fig 4
5	Click, 'Just a Webpage(main )'	Return to main landing page	Return to main landing page	pass, fig 5
6	Click, 'Oh, another Link'	Navigate to 'Oh, another Link' page	Navigate to 'Oh, another Link' page	pass, fig 6
7	Click, image	Navigate to page, 'Top 10 Hacker movies'	Navigate to page, 'Top 10 Hacker movies'	pass, fig 7
8	Close page, return to 'Oh, another Link'	Navigate to 'Oh, another Link' page	Navigate to 'Oh, another Link' page	pass, fig 8
9	Click, 'Source' under unordered list of top programming languages for Ethical Hackers	Navigate to source page	Navigate to source page	pass, fig 9

10	Back page to 'Oh another Link'	Navigate to 'Oh, another Link' page	Navigate to 'Oh, another Link' page	pass, fig 10
11	Click, 'Don't Click Me'	Navigate to embedded Youtube video	Navigate to embedded Youtube video	pass, fig 11
12	Back page to 'Oh another Link'	Navigate to 'Oh, another Link' page	Navigate to 'Oh, another Link' page	pass, fig 12
13	Click, 'Bandits Game' link	Open page to Bandits site	Open page to Bandits site	pass, fig 13
14	Close page, return to 'Oh, another Link'	Navigate to 'Oh, another Link' page	Navigate to 'Oh, another Link' page	pass, fig 14
15	Click, 'Look a Link'	Navigate to 'Look a Link' page 2	Navigate to 'Look a Link' page 2	pass, fig 15
16	Click, 'Hacking History' link	Navigate to 'Hacking history' site	Navigate to 'Hacking history' site	pass, fig 16

### Images:

Below are some images of the program running and the images that correspond to the test cases above.

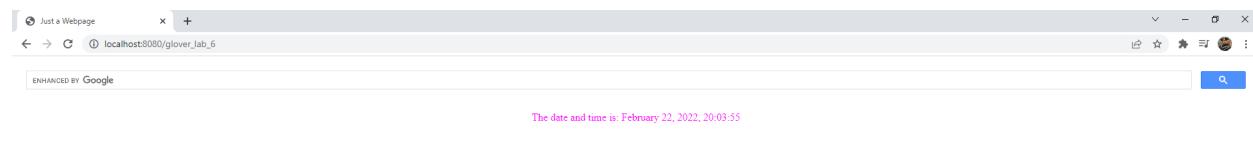


Fig 1

Name: Corey Glover

SDEV300-6382

Date: Feb 22, 2022

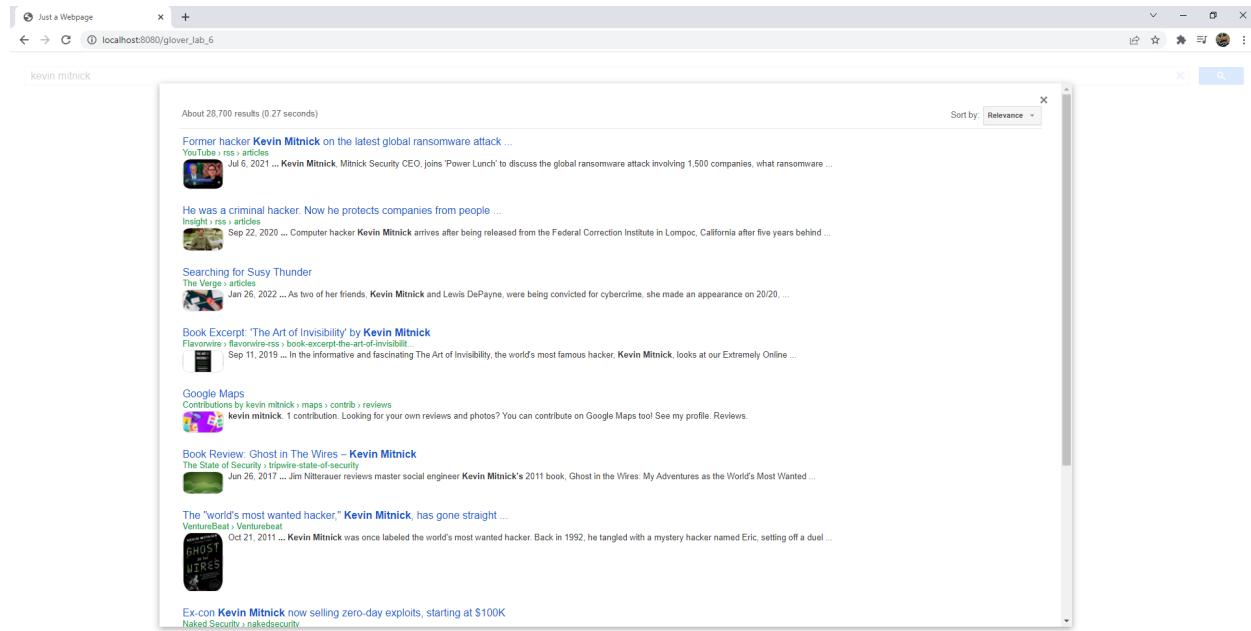


Fig 2

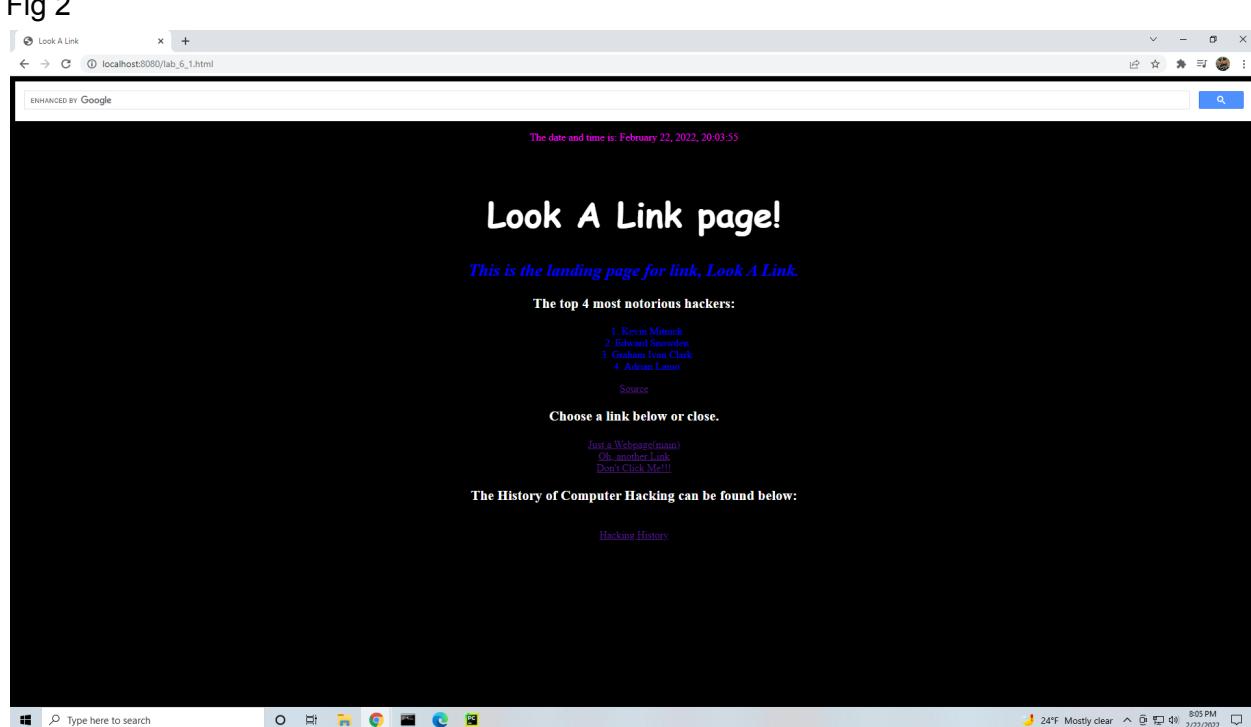


Fig 3

Name: Corey Glover

SDEV300-6382

Date: Feb 22, 2022



Fig 4



## Welcome to a Webpage!

*This is just a simple webpage to display some HTML basics.*

Look A Link  
Oh another Link  
Don't Click Me!!!

Fig 5

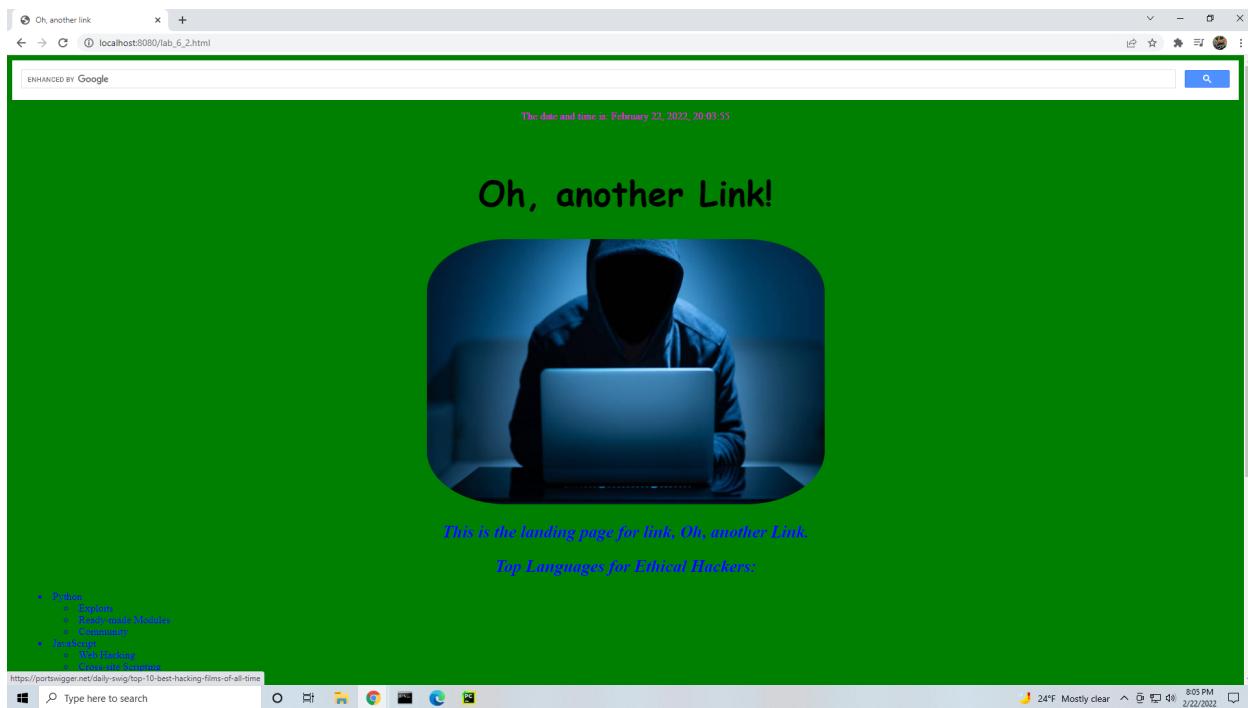


Fig 6

The Daily Swig

Cybersecurity news and views

Regions ▾ Hacking News ▾ Data Breaches ▾ Cyber-attacks ▾ Vulnerabilities ▾ Bug Bounties ▾ More ▾

### Top 10 best hacking films of all time

John Leyden 20 December 2019 at 10:31 UTC  
Updated 13 September 2021 at 13:32 UTC

Hacking Tools ▪ Industry News ▪ Hacking Techniques

Haxploitation goes to the movies

With the winter nights drawing in, The Daily Swig is offering our readers a rundown of the best hacking films of all time.  
We've decided to split our Top 10 list between classics of the genre and some left field suggestions, covering titles

**Latest Posts**

- AirTag clone warning
- DIY device bypasses Apple's tracking-protection features, claims researcher
- 22 February 2022
- Zero-day RCE flaw among multiple bugs found in Extensis Portfolio
- 22 February 2022
- Potentially market-nuking' Coinbase security bug allowed users to steal unlimited cryptocurrency

Fig 7

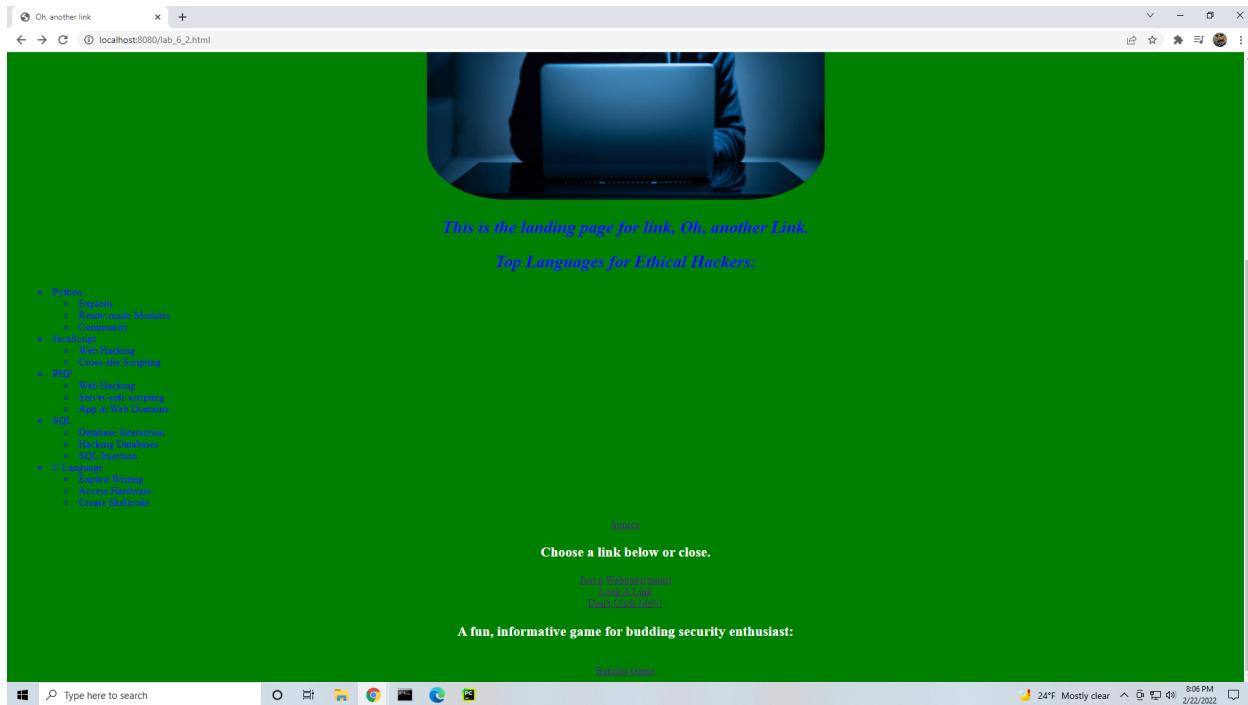


Fig 8

The 5 Best Programming Languages for Hacking in 2022

Lesson 12 of 31

By Simplilearn

Last updated on Feb 17, 2022

106437 16

Cyber Security Tutorial: A Step-by-Step Guide

What is Cyber Security and Why it is Important?

Cyber Security for Beginners

How to Become a Cyber Security Engineer?

What is Ethical Hacking and Type of Ethical Hackers

What is Penetration Testing? A Step-by-Step Guide

What is SQL Injection: How to Prevent SQL Injection

Fig 9

Name: Corey Glover

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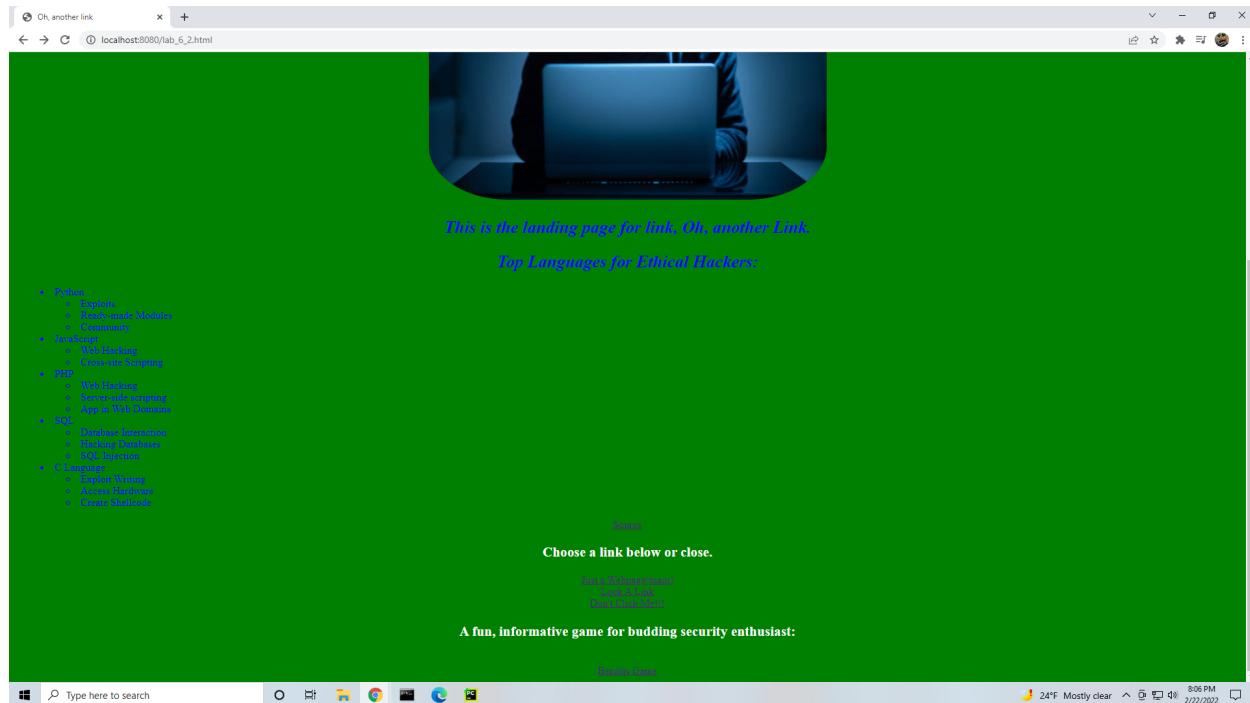


Fig 10



Fig 11

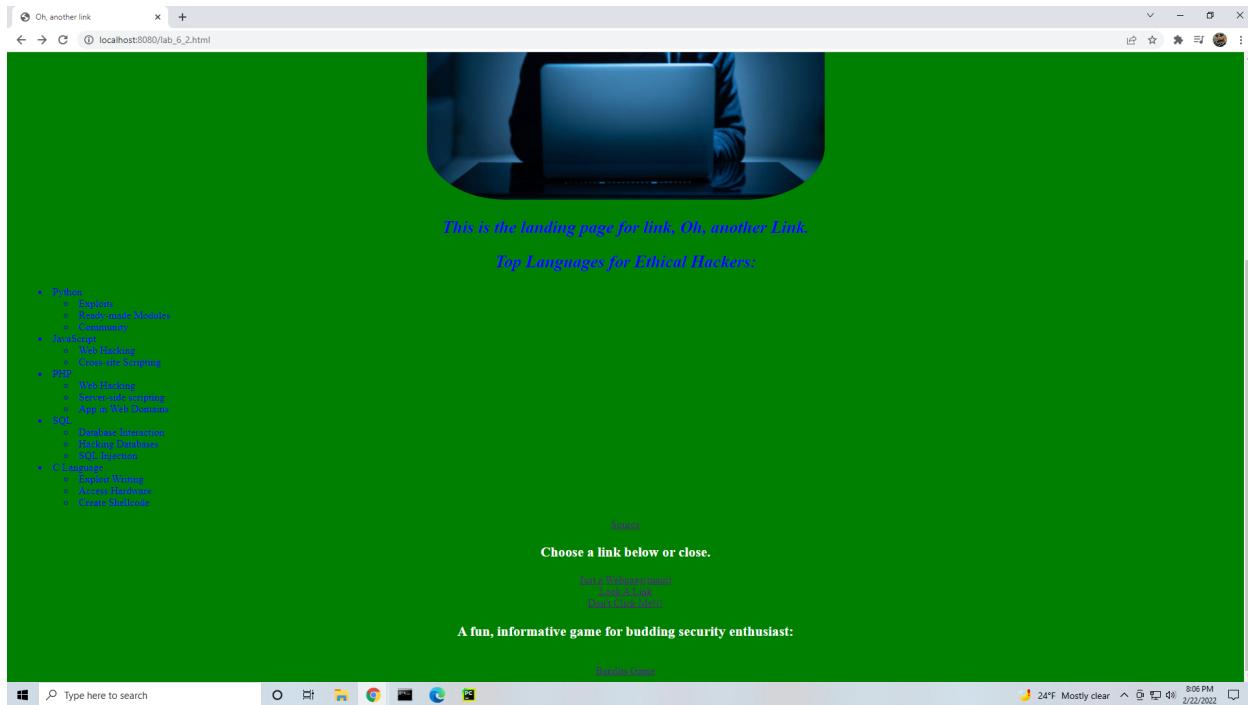


Fig 12

**SSH Information**  
Host: bandit.labs.overthewire.org  
Port: 2220

**Bandit**

The Bandit wargame is aimed at absolute beginners. It will teach the basics needed to be able to play other wargames. If you notice something essential is missing or have ideas for new levels, please let us know!

**Note for beginners**

This game, like most other games, is organised in levels. You start at Level 0 and try to "beat" or "finish" it. Finishing a level results in information on how to start the next level. The pages on this website for "Level-X" contain information on how to start level X from the previous level. E.g. the page for Level 1 has information on how to gain access from Level 0 to Level 1. All levels in this game have a page on this website, and they are all linked to from the sidebar on the left of this page.

You will encounter many situations in which you have no idea what you are supposed to do. **Don't panic! Don't give up!** The purpose of this game is for you to learn the basics. Part of learning the basics, is reading a lot of new information.

There are several things you can try when you are unsure how to continue:

If you know a command, but don't know how to use it, try the **man** (man page) by entering "**man <command>**" (without the quotes). e.g. if you know about the "**ls**" command, type: **man ls**. The "**man**" command also has a manual, try it. Press **q** to quit the man command.

Second, if there is no man page, the command might be a **shell built-in**. In that case use the **help <x>** command. E.g. **help cd**.

Also, your favorite **search-engine** is your friend. Learn how to use it! I recommend **Google**.

Lastly, if you are still stuck, you can join us via chat.

You're ready to start! Begin with [Level 0](#), linked at the left of this page. Good luck!

**Note for VMs:** You may fail to connect to overthewire.org via SSH with a "broken pipe error" when the network adapter for the VM is configured to use NAT mode. Adding the setting **IPQoS throughput to /etc/ssh/sshd\_config** should resolve the issue. If this does not solve your issue, the only option then is to change the adapter to Bridged mode.

Fig 13

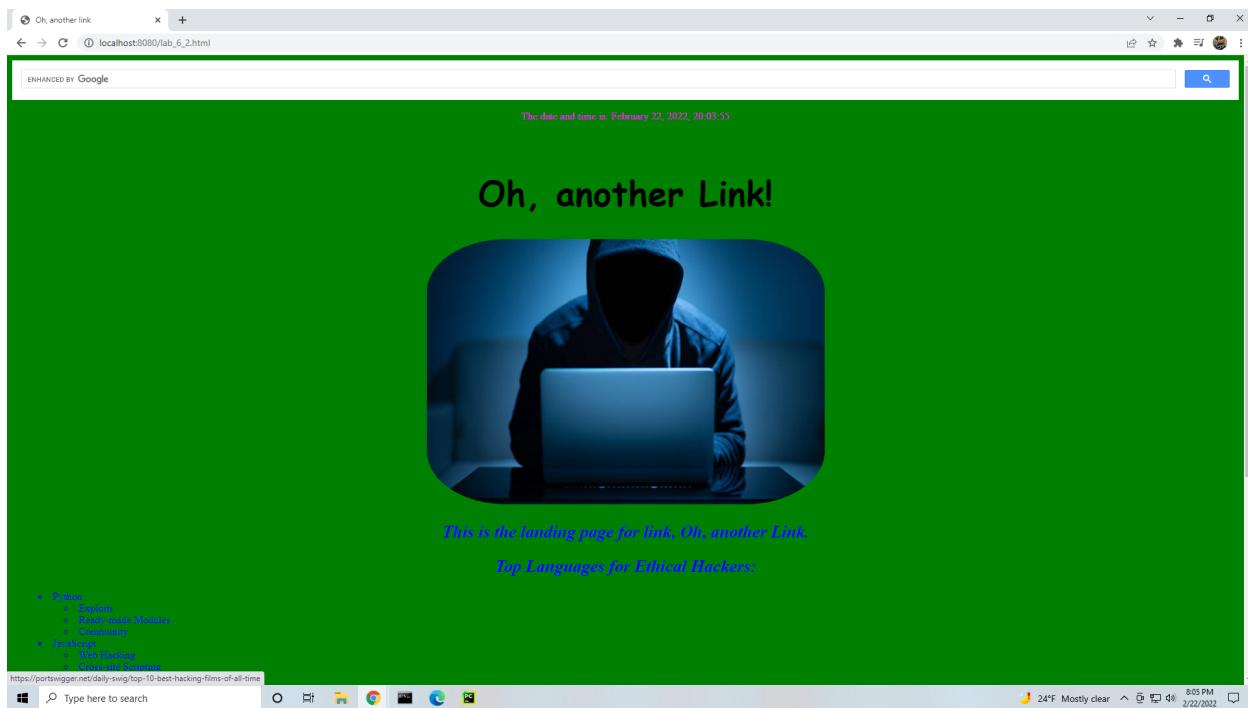


Fig 14

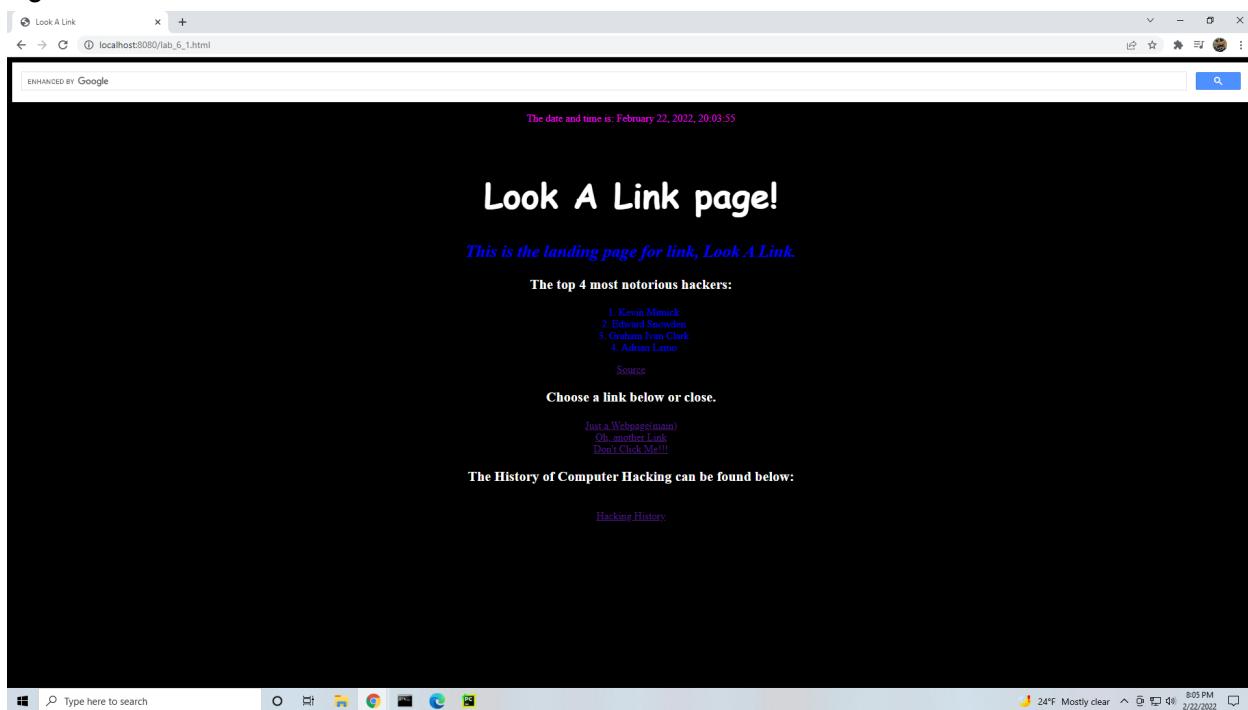


Fig 15

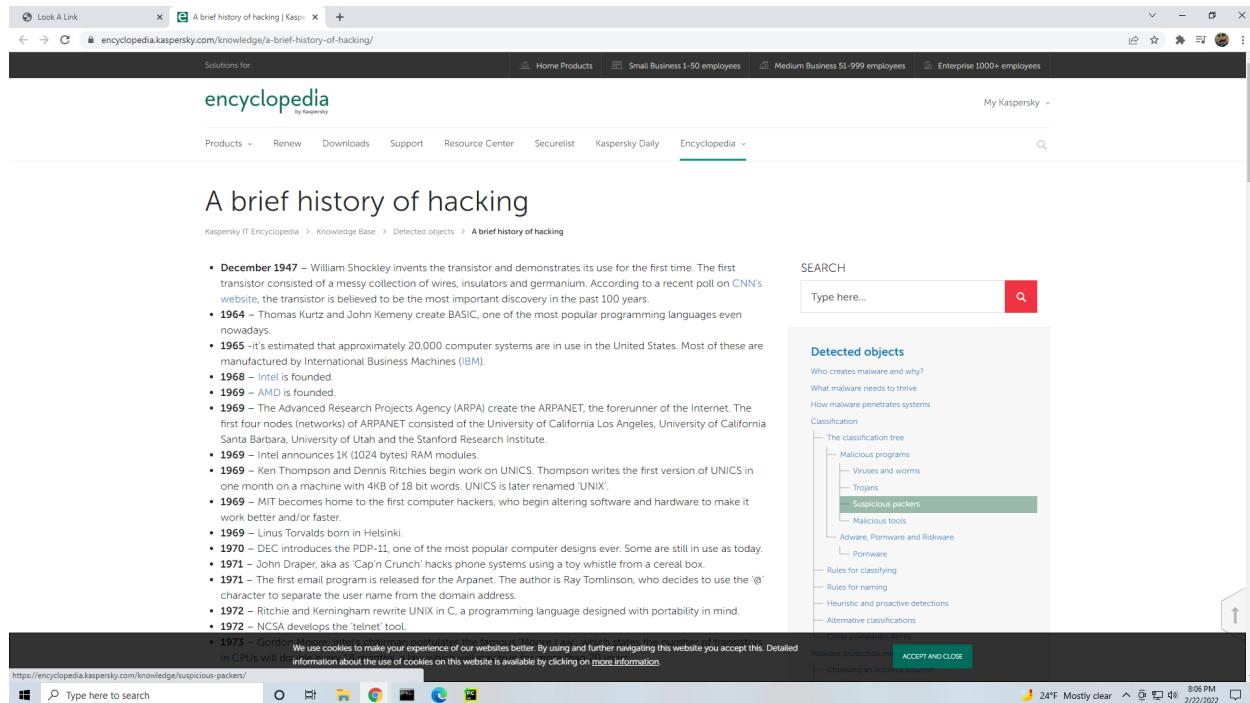


Fig 16

## Pylint Screenshots:

This program didn't cause to many pylint issues for me. I managed to write the python portion without any errors:

```

 1 """ 
 2     __filename__ = "glover_lab_6.py"
 3     __courseName__ = "SDEV 300 - Building Secure Python Applications"
 4     __author__ = "Corey Glover"
 5     __copyright__ = "None"
 6     __license__ = "GPL"
 7     __version__ = "1.0."
 8     __maintainer__ = "Corey Glover"
 9     __email__ = "cglover35@student.umgc.edu"
10
11 Site hosted off URL for http://localhost:8080/glover_lab_6
12 """
13 from datetime import datetime
14 from flask import Flask, render_template
15
16 APP = Flask(__name__, static_url_path="/static")
17
18 TIME_NOW = datetime.now()
19 DATE_TIME = TIME_NOW.strftime("%B %d, %Y, %H:%M:%S")
20
21 @APP.route('/glover_lab_6')
22 def main():
23     """ Main function - uses HTML template to draw page """
24     return render_template('labo_web.html', datetime=DATE_TIME)
25

```

Windows PowerShell  
Copyright © Microsoft Corporation. All rights reserved.  
Try the new cross-platform PowerShell <https://aka.ms/powershell>

```

PS C:\Users\Corey\PycharmProjects\SDEV300> cd Week6
PS C:\Users\Corey\PycharmProjects\SDEV300\Week6> pylint Glover_lab_6.py
-----
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

PS C:\Users\Corey\PycharmProjects\SDEV300\Week6>

```