CyberProtect.co

Presented by The Awesome Hackers

The Awesome Hackers

Nikki Noble:

Hello my name is Nikki Noble.
I'm a senior computer science major.

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Natalie Kline:

- Computer Science Major & Music Performance Major
- 2nd-Year, Sophomore

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Zoe Oliver:

Hello my name is Zoe. I am a junior computer science major.

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Ian Malinowski:

Hello my name is Ian Malinowski, I'm a sophomore computer science major.
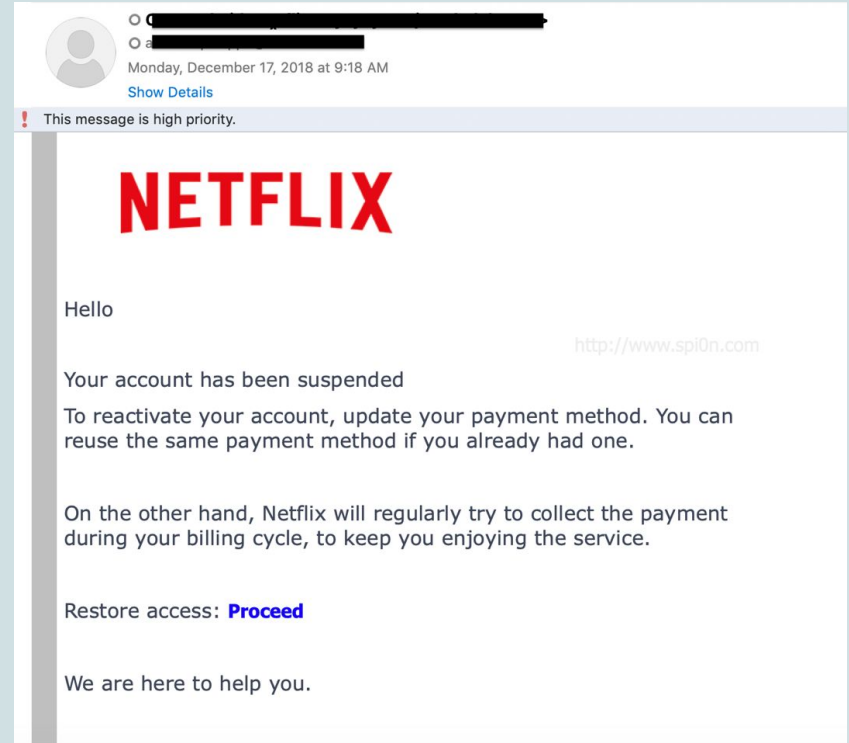
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What is a Phishing Attack?

No, it is not a leisurely activity you do with your dad.

A phishing attack is when someone uses social engineering to get your data, money, or both. You can be tricked into thinking you need to update your information or a Nigerian Prince needs some money.

So always be skeptical of someone asking for your information.

Our Project

Our program is meant to instruct users on the dangers of Phishing attacks.

We created a phishing email that is a representation of what you might actually see. This email links to our website but with full functionality it would download the malware/ransomware to lockdown the computer.

However, you must first go through our installation instructions for the S.E.B. in order to demonstrate our program.

After running the program, you must go through our attack learning about the dangers and risks in order to get your computer back.

What Changed

In general, our initial scope of the project was narrowed down because we were too ambitious at the beginning of the semester and forgot to consider the time constraints we would face.

We were unable to implement a lockdown browser style attack within the time allotted so we turned to github and found an open source lockdown browser called Safe Exam Browser that we utilized with the rest of our code.

 This browser was provided by by the Educational Development and Technology unit of ETH Zurich, Switzerland.

USB functionality was eliminated. Since the Safe Exam Browser was needed for download, USB functionality fell outside the scope of our project.

Since we used a browser we switched from a Java GUI to an HTML & Javascript view in CSS.

What Changed Continued...

Before, we only had a mock up example that included pictures of what our project was going to entail, but now we have a functioning phishing attack that can be used as a resource to a wide variety of areas.
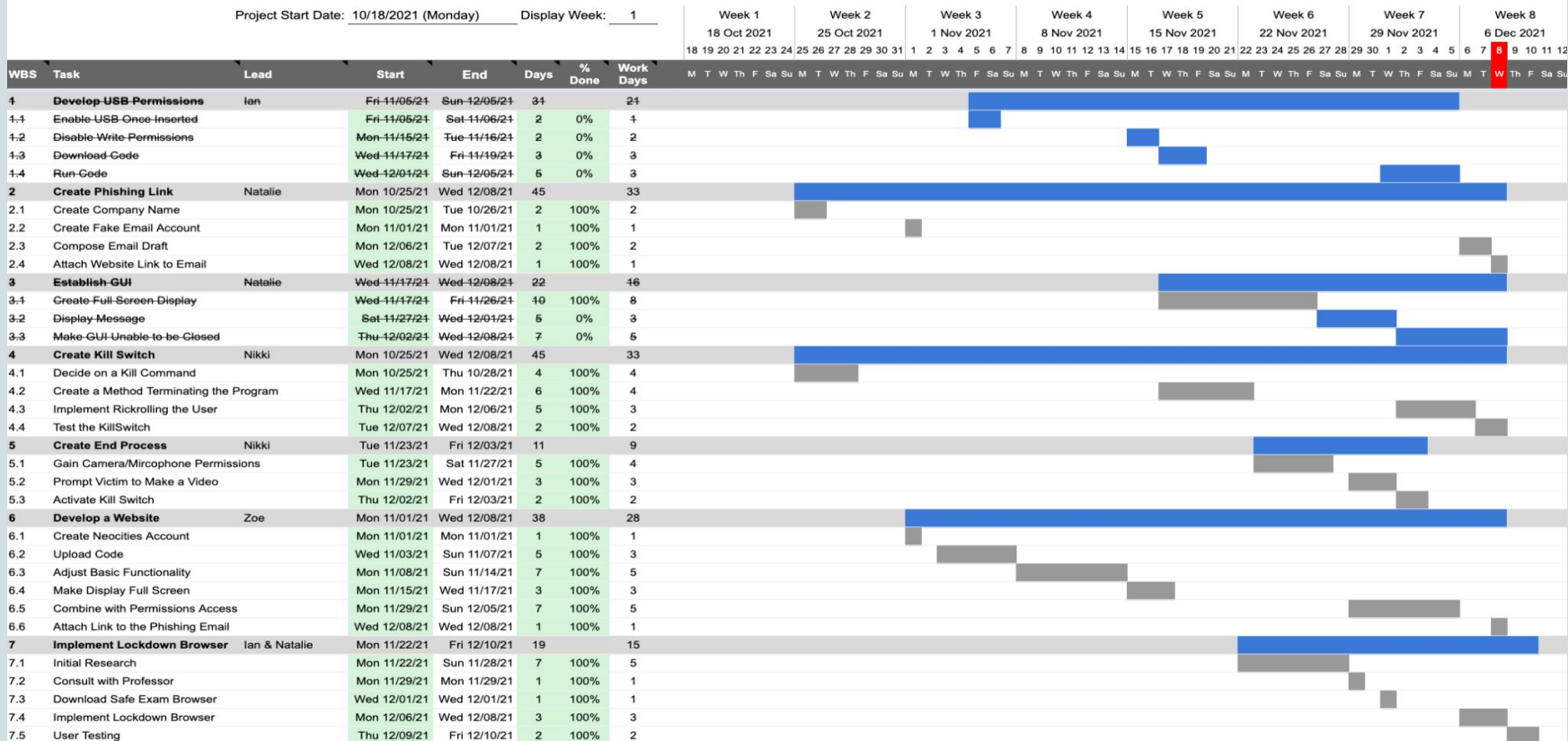
* Educational purposes (middle school age to anyone that is unfamiliar with technology)

* Negative effects on a business (loss of money, loss of intellectual property, damage to reputation, and disruption of operational activities)

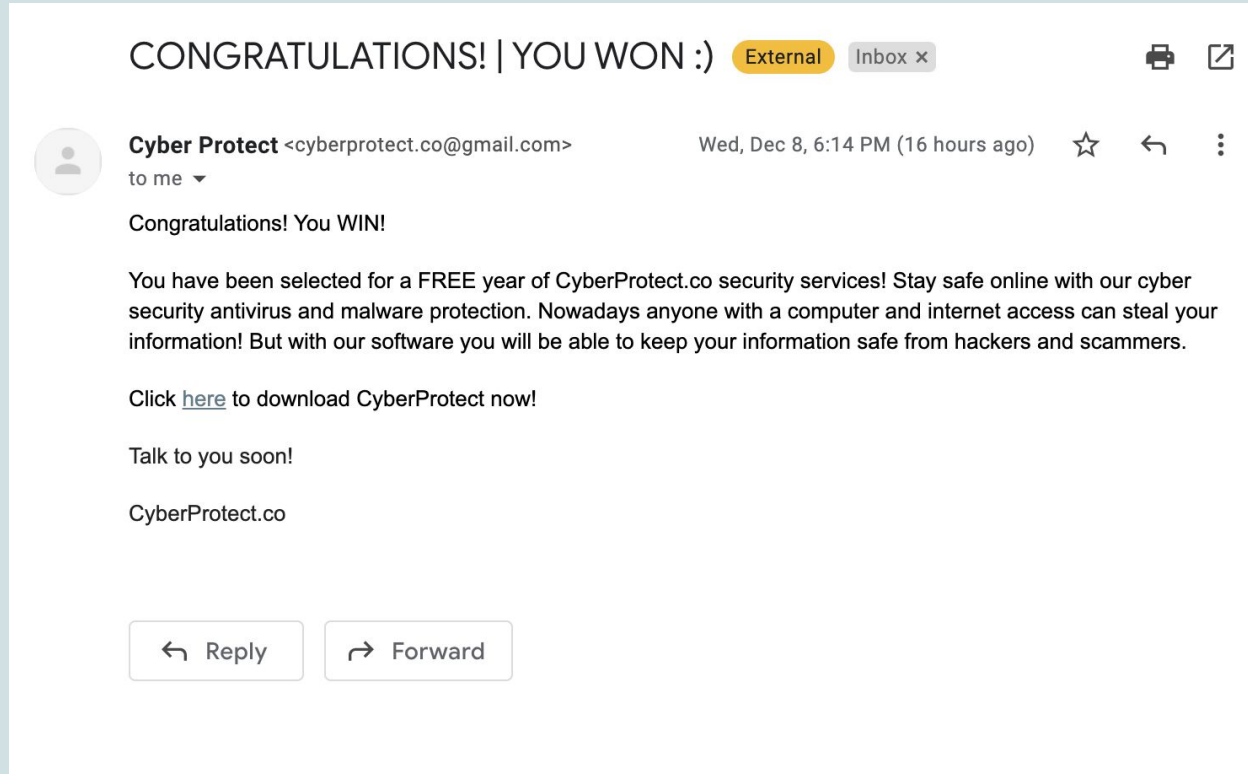All of the code has been implemented essentially.

Timeline – Gantt Chart

Cyber-Prank Project Schedule
The Awesome Hackers

Project Start Date: 10/18/2021 (Monday)   Display Week: 1

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
		18 Oct 2021	25 Oct 2021	1 Nov 2021	8 Nov 2021	15 Nov 2021	22 Nov 2021	29 Nov 2021	6 Dec 2021

WBS	Task	Lead	Start	End	Days	% Done	Work Days
1	Develop USB Permissions	Ian	Fri 11/05/21	Sun 12/05/21	31		21
1.1	Enable USB Once Inserted		Fri 11/05/21	Sat 11/06/21	2	0%	1
1.2	Disable Write Permissions		Mon 11/15/21	Tue 11/16/21	2	0%	2
1.3	Download Code		Wed 11/17/21	Fri 11/19/21	3	0%	3
1.4	Run Code		Wed 12/01/21	Sun 12/05/21	5	0%	3
2	Create Phishing Link	Natalie	Mon 10/25/21	Wed 12/08/21	45		33
2.1	Create Company Name		Mon 10/25/21	Tue 10/26/21	2	100%	2
2.2	Create Fake Email Account		Mon 11/01/21	Mon 11/01/21	1	100%	1
2.3	Compose Email Draft		Mon 12/06/21	Tue 12/07/21	2	100%	2
2.4	Attach Website Link to Email		Wed 12/08/21	Wed 12/08/21	1	100%	1
3	Establish GUI	Natalie	Wed 11/17/21	Wed 12/08/21	22		16
3.1	Create Full Screen Display		Wed 11/17/21	Fri 11/26/21	10	100%	8
3.2	Display Message		Sat 11/27/21	Wed 12/01/21	5	0%	3
3.3	Make GUI Unable to be Closed		Thu 12/02/21	Wed 12/08/21	7	0%	5
4	Create Kill Switch	Nikki	Mon 10/25/21	Wed 12/08/21	45		33
4.1	Decide on a Kill Command		Mon 10/25/21	Thu 10/28/21	4	100%	4
4.2	Create a Method Terminating the Program		Wed 11/17/21	Mon 11/22/21	6	100%	4
4.3	Implement Rickrolling the User		Thu 12/02/21	Mon 12/06/21	5	100%	3
4.4	Test the KillSwitch		Tue 12/07/21	Wed 12/08/21	2	100%	2
5	Create End Process	Nikki	Tue 11/23/21	Fri 12/03/21	11		9
5.1	Gain Camera/Mircophone Permissions		Tue 11/23/21	Sat 11/27/21	5	100%	4
5.2	Prompt Victim to Make a Video		Mon 11/29/21	Wed 12/01/21	3	100%	3
5.3	Activate Kill Switch		Thu 12/02/21	Fri 12/03/21	2	100%	2
6	Develop a Website	Zoe	Mon 11/01/21	Wed 12/08/21	38		28
6.1	Create Neocities Account		Mon 11/01/21	Mon 11/01/21	1	100%	1
6.2	Upload Code		Wed 11/03/21	Sun 11/07/21	5	100%	3
6.3	Adjust Basic Functionality		Mon 11/08/21	Sun 11/14/21	7	100%	5
6.4	Make Display Full Screen		Mon 11/15/21	Wed 11/17/21	3	100%	3
6.5	Combine with Permissions Access		Mon 11/29/21	Sun 12/05/21	7	100%	5
6.6	Attach Link to the Phishing Email		Wed 12/08/21	Wed 12/08/21	1	100%	1
7	Implement Lockdown Browser	Ian & Natalie	Mon 11/22/21	Fri 12/10/21	19		15
7.1	Initial Research		Mon 11/22/21	Sun 11/28/21	7	100%	5
7.2	Consult with Professor		Mon 11/29/21	Mon 11/29/21	1	100%	1
7.3	Download Safe Exam Browser		Wed 12/01/21	Wed 12/01/21	1	100%	1
7.4	Implement Lockdown Browser		Mon 12/06/21	Wed 12/08/21	3	100%	3
7.5	User Testing		Thu 12/09/21	Fri 12/10/21	2	100%	2

Phishing Email

CONGRATULATIONS! | YOU WON :) External Inbox ×

Cyber Protect <cyberprotect.co@gmail.com>   Wed, Dec 8, 6:14 PM (16 hours ago)

to me

Congratulations! You WIN!

You have been selected for a FREE year of CyberProtect.co security services! Stay safe online with our cyber security antivirus and malware protection. Nowadays anyone with a computer and internet access can steal your information! But with our software you will be able to keep your information safe from hackers and scammers.

Click here to download CyberProtect now!

Talk to you soon!

CyberProtect.co

↩ Reply   → Forward

Our Website

CyberProtect Giveaway!

Prize Winner Details:

Enter your details to claim your prize!

First Name: [First Name Only]

Last Name: [Last Name Only]

Email: [example@domain.com]

Company: [Type 'Personal' if your are entering without a comapny affiliation]

[Submit] [Back]

The Attack

YOU ARE BEING RECORDED!

In order to close the program you must meet our next demand

We have a script prepared for you. Record a video of you singing the script below

Here is what you need to say...

Never gonna give you up Never gonna let you down Never gonna run around and desert you Never gonna make you cry Never gonna say goodbye Never gonna tell a lie and hurt you

End of Attack

NEXT TIME DON'T FALL FOR PHISHING LINKS!

Hit the power button in the bottom right to escape
Password: thisTeamGetsAnA

Installation Instructions

- Install version based on your operating system at:
  - https://safeexambrowser.org/download_en.html
- Open SEB Configuration Tool
  - In general settings make "Start URL" this:
  - https://cyber-protect.neocities.org
  - File -> Save Settings
  - Set unlock password to: *thisTeamGetsAnA*
- Run Safe Exam Browser