**KC3006| Introduction to Information Systems**

**Cyber Security**

**Design Documentation**

**Student ID: <W22001879>**

**Date submitted: <07/05/2023>**

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# **Client’s website requirements**

* Has to be user friendly
* Use HTML
* Not too much text
* Use of relevant images
* Some educational videos
* Consistent design
* Banner navigating to at least four different pages
* Home button that returns to the home page
* Text easy to read and no more than 2 fonts

**What I would like to create**

* A website using HTML outlining different aspects of cyber security that has a clean user interface and easy to navigate

**Problems I may face**

* Inconsistencies in coding
* Struggles in designing the website with the correct uses of html
* Bugs and errors
* Understanding different features of HTML and how to use them efficiently

**My research methods**

* University lectures and workshop sessions
* Referring to notes taken from lectures and workshops
* Learn from online resources such as W3Schools and Glitch
* Practicing on NotePad++
* Plan the user design on a sheet of paper in order to visually envision ideas for the website

# **Screen plans**

*A screenshot of a computer

Description automatically generated*

*Home page*

This is my home page. Whenever the home button is, it will always return to this page. Across the top is my navigation bar. They have a total of four links. Each link will take the user to a separate page consisting of different information related to the chosen topic. For verbal content, I will include a heading and text below. There are three contextual and vibrant images included to add visual appeal to the website. Alongside the images is a video thumbnail from YouTube. This will explain the current page in a video format to help the user gain further understanding.

A screenshot of a computer

Description automatically generated*Page from Topic 2*

All pages will have a consistent design scheme. The background colour will be blue as this is a colour which is easy on the eyes. The font type will be Verdana, size 24, align: centre. The headings are in bold to make them distinctive. Images will vary and image placement will be different in each page. This is to prevent all pages from looking too similar and to keep the user engaged at the same time without being confused. The banner and home page will remain in the same location throughout. Some pages will contain bullet points to present an unordered list.

A picture containing text, screenshot, software, operating system

Description automatically generated

*Expected final design*

This is an example of what the expected design of the home page should appear with some possible changes in the final design.

# **My HTML Code**

What is Cyber Security? (Home page)

<html>

<body>

<head>

<title>Cyber Security</title>

</head>

<style>

body {

font-family: Verdana, sans-serif;

}

</style>

<body bgcolor="#A5DBFA">

<a href="Page 1.html"><img src="https://e7.pngegg.com/pngimages/322/368/png-clipart-white-house-illustration-home-page-computer-icons-website-world-wide-web-blue-home-page-icon-miscellaneous-trademark.png" height="90" width="90" style="float: left; margin-right: 15px;" ></a>

<br><br><button onclick="document.location='Page 2.html'"><font size="+2">Why is Cyber Security important?</font></a></button>

<button onclick="document.location='Page 3.html'"><font size="+2">How do hackers attack?</font></a></button>

<button onclick="document.location='Page 4.html'"><font size="+2">What are the consequences of losing data?</font></a></button>

<button onclick="document.location='Page 5.html'"><font size="+2">How to keep systems secure?</font></a></button>

<br><br><br><br><h1><b><u><p align="center"><font size="+4">What is Cyber Security?</font></p></u></b></h1>

<p align="center"><font size="+2">The purpose of cyber security is to protect users from malicious attacks initiated by hackers worldwide. To understand this further, we will be looking at four different areas:</font></p><br><br>

<img src="https://1000logos.net/wp-content/uploads/2016/10/Apple-Logo.png" hspace="30" style="width:15%;">

<img src="https://upload.wikimedia.org/wikipedia/commons/thumb/0/0a/Unofficial\_Windows\_logo\_variant\_-\_2002%E2%80%932012\_%28Multicolored%29.svg/2321px-Unofficial\_Windows\_logo\_variant\_-\_2002%E2%80%932012\_%28Multicolored%29.svg.png" width="150" height="150" hspace="80">

<img src="https://taylordata.com/wp-content/uploads/Locked-Security.png" width="150" height="150" hspace="155">

<iframe width="600" height="345" src="https://www.youtube.com/embed/shQEXpUwaIY">

</iframe>

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Why is Cyber Security important?

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<br><br><br><br><h1><b><u><p align="center"><font size="+4">Why is Cyber Security important?</font></p></u></b></h1>

<p align="center"><font size="+2">Cyber security is crucial for any business to preserve the integrity of data. If systems were not secure, they would be open to all sorts of malicious attacks which can potentially destroy an organisation as well as affecting the public. The significance of cyber security is always increasing as the use of smartphones, tablets, computers and the Internet has become an essential part of life. From online banking, social media, storing sensitive information, technology has become a global hub in which people can access their information from the touch of a screen. Along with the increase of digital convenience, it is vital that this data is safe and does not fall into the hands of criminals.</font></p><br><br>

<center><iframe width="600" height="345" src="https://www.youtube.com/embed/zYfx4cdFCVA"

</center>

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How do hackers attack?

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<br><br><br><br><h1><b><u><p align="center"><font size="+4">How do hackers attack?</font></p></u></b></h1>

<p align="center"><font size="+2">Hackers are developing different strategies as means of perpetrating their victims. Some tactics are more common than others, but it is imperative to stay aware of these methods and how one can protect themselves from being vulnerable. Here are explanations of social engineering methods in how cyber criminals attack:

<p align="center">Phishing – This is a broad term that can be split into other subcategories and it is also the most common approach. Hackers will attempt to trap their victims by persuading them to click on dodgy links on emails, texts, social media. Hackers can impersonate banks or local enforcement using fear to sway their victims.Honey trap – Attackers will use romance as a weapon against a user. They typically pretend to show romantic interest to lure their victim in order to swiftly access sensitive data or money.</p>

<p align="center">Tailgating – When criminals physically enter a restricted area, then access an employee’s device to access their device or other sensitive data within the company’s network. They could also manipulate other staff members.</p>

<p align="center">Weak passwords – If passwords are easy to guess, this makes it easier for someone to gain access. It is always recommended to use long and complex passwords.</p>

<p align="center">Outdated security software – If a software is old, it may contain bugs and will not receive the relevant fixes therefore weakening the software’s integrity. New updates work on improving the current state of security.</p></font></p>

<img src="https://www.duocircle.com/wp-content/uploads/2019/08/mobile-advanced-threat-defense.png" width="372" height="200">

<img src="https://www.websiteradar.net/wp-content/uploads/2022/06/tailgating.jpg" width="372" height="200">

<img src="https://specopssoft.com/wp-content/uploads/2021/04/Breached-Passwords.jpg" width="372" height="200">

<img src="https://www.elegantthemes.com/blog/wp-content/uploads/2017/05/wordpress-post-expiration.png" width="372" height="200">

<img src="https://oggadoon.co.uk/wp-content/uploads/2021/10/Social-media-for-cyber-security-companies-1.png" width="372" height="200">

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What are the consequences of losing data?

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<br><br><br><br><h1><b><u><p align="center"><font size="+4">What are the consequences of losing data?</font></p></u></b></h1>

<div style="text-align:center;"><font size="+2">

<li>Data exploitation – Sensitive information such as banking data, social security numbers can be misused</li>

<li>Financial fraud – A hacker may gain access to a person’s bank account and commit fraudulent acts</li>

<li>Identity theft – A cyber criminal can impersonate someone if they can manipulate their personal details</li>

<li>Website defacement – This will tarnish an organisations’ reputation and takes away their controls</li>

<li>Loss of clients – If a business gets hacked and lose clients’ data, this will naturally cause customers to leave</li>

<li>Information leak – A user’s personal information such as names and addresses could be leaked to the public and put them in harm</li>

<li>Reputational damage - Any hack will harm the organisation's status</li>

<li>Negative impact on business’ profits - Businesses will lose trust if their services are hacked therefore decreasing profits</li></ul></p></font><br><br></div>

<img src="https://dmrqkbkq8el9i.cloudfront.net/Pictures/480x270/2/0/7/291207\_ThinkstockPhotos-516607038-web.jpg" width="600" height="300">

<img src="https://s3-eu-west-2.amazonaws.com/jotwpublic-prod-storage-1cxo1dnrmkg14/uploads/sites/6/2021/10/211013-Fraud-1440x810-1.jpeg" width="600" height="300">

<img src="https://ak.picdn.net/shutterstock/videos/1037458469/thumb/12.jpg?ip=x480" width="600" height="300">

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<div style="text-align:center;"><font size="+2">

<li>Update security software regularly</li>

<li>Log out when not using a computer</li>

<li>Do not download from unverified sources</li>

<li>Back up data</li>

<li>Encrypt data</li>

<li>Do not post sensitive information on social media</li>

<li>Be aware of your surroundings</li>

<li>Do not click on suspicious emails</li>

<li>Install anti virus software</li>

<li>Use a secure Wi-Fi connection</li>

<li>Limit access to those who require it</li>

<li>Delete data that is no longer useful</li></ul></p></font></div>

<img src="https://www.logsign.com/uploads/cyber\_security\_protocols\_c1974fb1ed.png" width="600" height="300" align="right" hspace="33">

<img src="https://www.itgovernance.eu/blog/en/wp-content/uploads/2019/06/cyber-security-concept\_23-21485322231-626x350.jpg" width="600" height="300" align="right">

<iframe width="600" height="300" src="https://www.youtube.com/embed/FB71QWfWqQ4">

</body>

</html>

# **A picture containing text, screenshot, software, computer icon Description automatically generatedScreenshots of final website design**

A picture containing text, electronics, screenshot, software

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated