Midterm

CSF Midterm

```html
1   <!DOCTYPE html>
2   <html lang="en">
3
4   <head>
5       <meta charset="UTF-8">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <meta http-equiv="X-UA-Compatible" content="ie=edge">
8       <link rel="stylesheet" href="style.css" type="text/css" />
9       <link rel="preconnect" href="https://fonts.googleapis.com">
10      <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
11      <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300;400&display=swap" rel=
12      <title>Cyber Security Concepts</title>
13  </head>
14
15  <body>
16      <header>
17          <h1>Cyber Security Concepts</h1>
18      </header>
19
20      <section class="gallery">
21          <div class="post">
22              <h2>Defense in Depth</h2>
23              <img src="assets/mobilePhone.jpg"></img>
24              <p>A comprehensive strategy of including multiple layers of security
25                  within a system so that if one layer fails, another layer of security
26                  is already in place to stop the attack/unauthorized access. Examples:</p>
27              <ol>
28                  <li>A castle is secured by a moat, a drawbridge, and guards at the gate.</li>
29                  <li>Your home computer is secured by locks on the door, an alarm system, and a fir
30                  <li>Company data is secured by a firewall, passwords, and encryption.</li>
31              </ol>
32          </div> <!-- Close post 1-->
33
34          <div class="post">
35              <h2>Confidentiality</h2>
36              <img src="assets/stamp.jpg"></img>
37              <p>The property that information is not disclosed to individuals, devices,
38                  or processes unless they have been authorized to access the information.:</p>
39              <ul>
40                  <li> Student grades can only be accessed by specific individuals within the organi
41                      such as authorized teachers and the principal.</li>
42                  <li>At a hospital, medical information about a patient is protected and only provi
43                  <li>Salary information is typically only available to authorized personnel within
44                      company, such as the supervisor and human resources.</li>
45              </ul>
46          </div> <!-- Close post 2-->
47
48          <div class="post">
49              <h2>Integrity</h2>
50              <img src="assets/digitization.jpg"></img>
51              <p>The property that information, an information system, or a component of a system
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52              has not been modified or destroyed in an unauthorized manner.</p>
53          <ul>
54              <li> Student grades are accurate and have not been modified by an unauthorized use
55              <li>A website is the entity it claims to be.</li>
56              <li>A computer system is virus-free and uncompromised.</li>
57          </ul>
58      </div> <!-- Close post 3-->
59
60      <div class="post">
61          <h2>Availability</h2>
62          <img src="assets/availability.jpg"></img>
63          <p>The property that information or information systems are accessible
64              and usable upon demand.</p>
65          <ul>
66              <li> A student's grades can be viewed by the student and principal and modified by
67              <li>A website for a store allows orders to be placed and viewed.</li>
68              <li>A banking system is appropriately accessible by both customers and banking emp
69              <li>A Denial-of-Service attack can result in a system being unavailable and inacce
70          </ul>
71      </div> <!-- Close post 4-->
72
73      <div class="post">
74          <h2>Think Like an Adversary</h2>
75          <img src="assets/adversary.jpg"></img>
76          <p>The strategy of putting yourself inside the mindset of a potential attacker that al
77              you to anticipate attack strategies and defend your systems accordingly.</p>
78          <ul>
79              <li> In order to best protect a student's data, it is useful to think of potential
80                  adversaries and their motivations, such as a student wishing harm on another,
81                  student seeking to modify his own data, and consider possible strategies – bre
82                  access, etc. and build your security strategy accordingly.
83              </li>
84              <li>Discussions on ethics of a cybersecurity professional must correlate with any
85                  activity in which adversarial thinking is being modeled.
86              </li>
87          </ul>
88      </div> <!-- Close post 5-->
89
90      <div class="post">
91          <h2>Keep It Simple</h2>
92          <img src="assets/KeepItSimple.jpg"></img>
93          <p>The strategy of designing information and security systems to be
94              configured and operated as simply as possible; all systems perform best when they
95          </p>
96          <ul>
97              <li> A complex alarm system can have many points of failure, including the hardwar
98                  and the software.
99              </li>
100             <li>A complex computer system has many points of access and may be difficult to
101                 secure. A simple solution is often the best strategy.
102             </li>
103         </ul>
104     </div> <!-- Close post 6-->
105
106 </section> <!-- Close gallery class-->
107
```

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108    <footer>
109        <div class="source">
110            <cite>Content by:</cite>
111            <p><a href="https://www.gen-cyber.com/">GenCyber Academy</a></p>
112        </div>
113        <br />
114        <div class="source">
115            <cite>Mobile Phone:</cite>
116            <p>Image by <a href="https://pixabay.com/users/funkyfocus-3900817/?utm_source=link-att
117                from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=ref
118        </div>
119        <br />
120        <div class="source">
121            <cite>Stamp:</cite>
122            <p>Image by <a href="https://pixabay.com/users/tayebmezahdia-4194100/?utm_source=link-
123                from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=ref
124        </div>
125        <br />
126        <div class="source">
127            <cite>Digitization</cite>
128            <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributio
129                from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=ref
130        </div>
131        <br />
132        <div class="source">
133            <cite>Availability</cite>
134            <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributio
135                from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=ref
136        </div>
137        <br />
138        <div class="source">
139            <cite>Think Like an Adversary</cite>
140            <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributio
141                from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=ref
142        </div>
143        <br />
144        <div class="source">
145            <cite>Keep It Simple</cite>
146            <p>Image by <a href="https://pixabay.com/users/janbaby-3005373/?utm_source=link-attrib
147                from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=referra
148        </div>
149    </footer>
150
151
152 </body>
153
154 </html>
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