persecurity Concepts

```
<!DOCTYPE html>
1
    <html lang="en">
 3
    <head>
 4
        <meta charset="UTF-8">
 5
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6
        <meta http-equiv="X-UA-Compatible" content="ie=edge">
 7
        <link rel="stylesheet" href="style.css" type="text/css" />
8
        <link rel="preconnect" href="https://fonts.googleapis.com">
 q
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
10
        <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300;400&display=swap" re</pre>
11
        <title>Cybersecurity Concepts</title>
12
    </head>
13
14
    <body>
15
        <header>
16
            <h1>Cybersecurity Concepts</h1>
17
        </header>
18
19
        <section class="gallery">
20
            <div class="post">
21
                <h2>Defense in Depth</h2>
22
                <img src="assets/mobilePhone.jpg"></img>
23
                A comprehensive strategy of including multiple layers of securitywithin a system
24
                    stop the attack/unauthorized access. Examples:
25
                26
                <01>
27
                    A castle is secured by a moat, a drawbridge, and guards at the gate.
28
                    Your home computer is secured by locks on the door, an alarm system, and a
29
                        firewall.
30
                    Company data is secured by a firewall, passwords, and encryption.
31
32
            </div> <!-- Close post 1 -->
33
34
            <div class="post">
35
                <h2>Confidentiality</h2>
36
                <img src="assets/stamp.jpg"></img>
37
                The property that information is not disclosed to individuals,
38
                    devices, or processes unless they have been authorized to access the information
39
                40
                <u1>
41
                    Student grades can only be accessed by specific individuals within the
42
                        organization, such as authorized teachers and the principal.
43
                    At a hospital, medical information about a patient is protected and only pro-
44
                        to authorized personnel.
45
                    Salary information is typically only available to authorized personnel with:
46
                        company, such as the supervisor and human resources.
47
                48
            </div> <!-- Close post 2 -->
49
50
            <div class="post">
```

```
52
                 <h2>Integrity</h2>
 53
                 <img src="assets/digitization.jpg"></img>
                 The property that information, an information system, or a component of a
 54
 55
                     system has not been modified or destroyed in an unauthorized manner.
                 56
                 <l
 57
                     Student grades are accurate and have not been modified by an unauthorized us
 58
 59
                     A website is the entity it claims to be.
                     A computer system is virus-free and uncompromised.
 60
                 </u1>
 61
 62
             </div> <!-- Close post 3 -->
             <div class="post">
 63
 64
                 <h2>Availability</h2>
                 <img src="assets/availability.jpg"></img>
 65
 66
                 The property that information or information systems are accessible
                     and usable upon demand.
 67
                 68
 69
                 <u1>
                     < a student's grades can be viewed by the student and principal and modified I</li>
 70
                         the teacher.
 71
                     72
                     <A website for a store allows orders to be placed and viewed.</li>
 73
 74
                     75
                     A banking system is appropriately accessible by both customers and banking
 76
                         employees.
 77
                     78
                     A Denial-of-Service attack can result in a system being unavailable and inac
 79
                     80
             </div> <!-- Close post 4 -->
 81
             <div class="post">
 82
 83
                 <h2>Think Like an Adversary</h2>
                 <img src="assets/adversary.jpg"></img>
 84
                 The strategy of putting yourself inside the mindset of a potential attacker that
 85
                 86
 87
                 <u1>
 88
                     In order to best protect a student's data, it is useful to think of potentia
                         adversaries and their motivations, such as a student wishing harm on another
 89
 90
                         student seeking to modify his own data, and consider possible strategies - I
                         access, etc. and build your security strategy accordingly.
 91
 92
                     93
                     Discussions on ethics of a cybersecurity professional must correlate with ar
 94
                         activity in which adversarial thinking is being modeled.
 95
 96
                     97
98
99
                 </div> <!-- Close post 5 -->
100
101
             <div class="post">
                 <h2>Keep It Simple</h2>
102
103
                 <img src="assets/KeepItSimple.jpg"></img>
                 The strategy of designing information and security systems to be
104
105
                     configured and operated as simply as possible; all systems perform best when the
106
107
```

```
<u1>
108
109
                                                    A complex alarm system can have many points of failure, including the hardway
                                                              and the software.
110
111
                                                    112
                                                    A complex computer system has many points of access and may be difficult to
113
                                                              secure. A simple solution is often the best strategy.
114
115
116
117
118
                                                     119
120
                                           121
122
                                 </div> <!-- Close post 5 -->
                       </section> <!-- Close gallery -->
123
124
125
                       <footer>
                                 <div class="source">
126
                                          <cite>Content by:</cite>
127
128
                                          <a href="https://www.gen-cyber.com">GenCyber Academy</a>
                                 </div><br>
129
                                 <div class="source">
130
131
                                          <cite>Mobile Phone</cite>
                                           Image by <a href="https://pixabay.com/users/funkyfocus-3900817/?utm_source=link-;</p>
132
133
                                                    from <a href="https://pixabay.com//?utm_source=link-attribution&amp;utm_medium=</pre>
134
                                 </div><br>
135
                                 <div class="source">
136
                                          <cite>Digitization</cite>
                                           Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributers.">ttps://pixabay.com/users/geralt-9301/?utm_source=link-attributers.
137
                                 </div><br>
138
                                 <div class="source">
139
                                           <cite>Stamp</cite>
140
                                           Image by <a href="https://pixabay.com/users/tayebmezahdia-4194100/?utm_source=lineduction.">utm_source=lineduction.com/users/tayebmezahdia-4194100/?utm_source=lineduction.
141
                                 </div><br>
142
                                 <div class="source">
143
                                          <cite>Availability</cite>
144
                                          Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributed">https://pixabay.com/users/geralt-9301/?utm_source=link-attributed
145
146
                                           147
148
                                 </div><br>
                                 <div class="source">
149
150
                                           <cite>Think Like an Adversary</cite>
                                           Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributers.">ttps://pixabay.com/users/geralt-9301/?utm_source=link-attributers.
151
152
153
154
                                          155
                                 </div><br>
                                 <div class="source">
156
157
                                          <cite>Keep It Simple
158
                                          </cite>
159
                                           Image by <a href="https://pixabay.com/users/janbaby-3005373/?utm_source=link-attractions."> <a href="https://pixabay.com/users/janbaby
160
                                           161
                                 </div>
162
163
                       </footer>
```

```
164
     </body>
165
166
     </html>
167
168
     /* Color Palette:
     primary: #FFFBEB
169
170
     seconday: #495579
     tertiary: #263159
171
172
     accent: #251749
     */
173
174
175
176
177
     html {
178
          margin: 0;
179
          padding: 0;
          box-sizing: border-box;
180
     }
181
182
183
     body {
184
          background-color: #251749;
185
          font-family: 'Open Sans', sans-serif;
186
     }
187
188
     header {
189
          background-color: #495579;
190
          color: #fff;
191
          padding: 1.5rem;
          margin: 1.2rem;
192
193
     }
194
195
     footer {
196
          background-color: #FFFBEB;
197
          margin: 1.2rem;
198
          padding: 1.5rem;
          font-size: 0.55rem;
199
200
     }
201
202
     h1,
     h2 {
203
204
          text-align: center;
205
     }
206
207
     img {
208
          max-width: 100%;
209
          height: auto;
210
          border-radius: 2rem;
211
     }
212
213
     li {
214
          padding: 0.2rem;
215
     }
216
217
     .post {
218
          background-color: #FFFBEB;
219
          margin: 1.2rem;
```

```
220
          padding: 1.5rem;
221
          line-height: 2rem;
222
     }
223
224
     .post p {
225
          text-indent: 1.2rem;
226
     }
227
228
     .source {
229
          letter-spacing: 0.5px
230
231
     }
232
233
     .source a {
234
          text-decoration: none;
235
          color: #495579;
     }
236
237
238
239
     @media (min-width: 800px) {
240
          .gallery {
              display: flex;
241
              flex-wrap: wrap;
242
243
              justify-content: space-around;
244
          }
245
246
          .post {
              width: 25%;
247
248
              font-size: 1.1rem;
          }
249
250
          footer {
251
252
              display: flex;
253
              justify-content: space-around;
254
              align-items: center;
255
              font-size: 0.7rem;
256
          }
257
     }
```

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