CPT211 / CPM313

Programming Language Concepts & Paradigms

Assignment 2

Sem 2 2019-2020

Group Members

No.	Name	Matric number
1	Muhammad Adlifuddin Bin Zanizam	141288
2	Farhana Zulaikha Binti Fadzli	143949
3	Dinulhuda Nabilah Binti Ahmad Fuad	143302
4	Zamil Haikal Bin Zamri	141654
5	Nurul Izzati bt Roslin	144098

Program Files (write down the name of folder and files)

Folder	
HTML/PHP	index.php, logout.php
CSS	style.css
JS	func.js

TABLE OF CONTENTS

1.0 Development Progress

We are required to build a single page website for a subject that we have studied, and we chose CST131, Computer Organization. The website must contain at least three topics, including some images and a section of our group information. We use HTML, CSS, Javascript and PHP to build these websites.

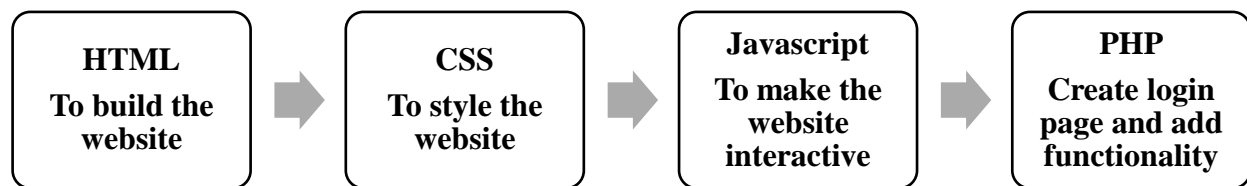Our progress in designing the website is shown in Figure 1:

| **HTML** **To build the website** | → | **CSS** **To style the website** | → | **Javascript** **To make the website interactive** | → | **PHP** **Create login page and add functionality** |

Figure 1. Website Development Progress

2.0 Design, Functionality and Content

2.1 <u>Design of Website</u>

2.1.1 Design Wireframe

Wireframe needs to be designed before the website is built. A wireframe in design process is lining the architectural blueprint that provides a clear vision of the website structure. We designed wireframe as the layout of content and functionality of the website we want to build.

Header

Video	Title
	(description)

Slide 1

Slide 2

Slide 3

About Us

Footer

Figure 2. Wireframe of the webpage.

Figure 2 shows the wireframe we designed with the five sections in the webpages (three sections for the topics, one section for main and another one is About Us section). Navigation button is provided in the header for user to select it. User will be linked to the specific section selected without the need for user to scroll until the end. This greatly improves user experience. Other than, some images are included in the webpage that will help draw attention and guide the user's line of sight. In addition, images will make user engage more with the content.

At the description section, we describe the topic of the subject that we chose. Then, About Us section will show the user the members of the developer team including name and picture. Lastly, footer contains the copyright of the webpage.

2.1.2 Structure Website using HTML

To build the website, we used HTML to define the page layout and elements within the page after the wireframe design. The elements include the text and images needed as the webpage design.

2.1.3 Add CSS

Then, we will move to CSS to style the website which describes the HTML elements to be displayed on screen. We used external CSS which is easy for us to find, modify the colour, layout of the website, font, button and image. The image and content for each section are aligned.

2.1.4 Add JavaScript

We have also added JavaScript to add some animation, which is a slider to the website. The table below shows the function description in the JavaScript.

Function Name	Description
plusSlides()	To control the slide to next or previous slide.
currentSlides()	To show the current slide that user wants to see.
showSlides()	To show the slide.

Table 1. Functions in JavaScript

2.1.5 PHP

PHP is added to improve the functionality of the login function. When the user clicks the login button, a login pop-up will be shown. User can login by entering their username and password. Once login, the login button will change to user's username to prove that the user has successfully logged in. User can log out by clicking "log out" button that is located below the user's username.

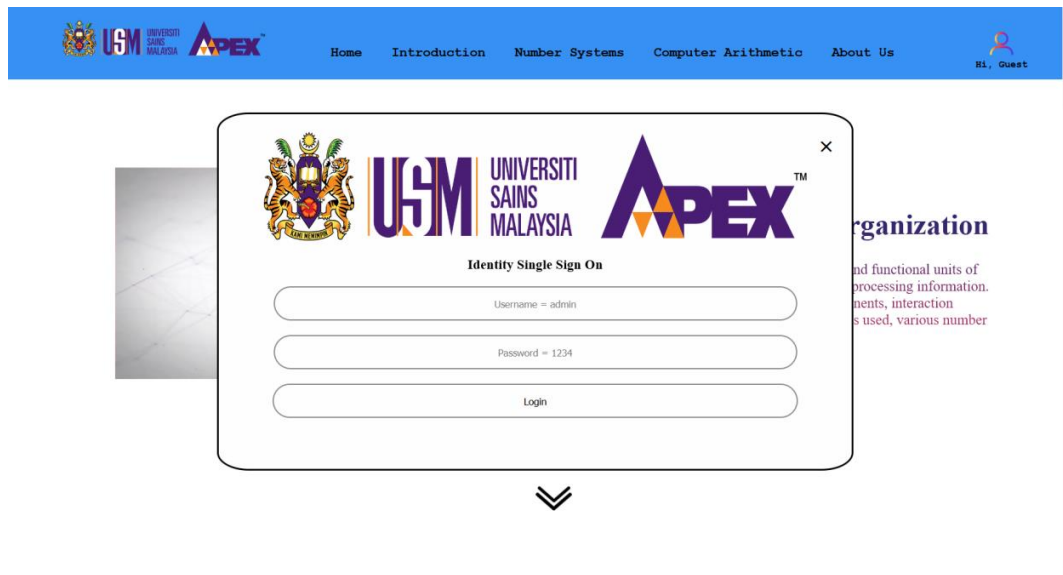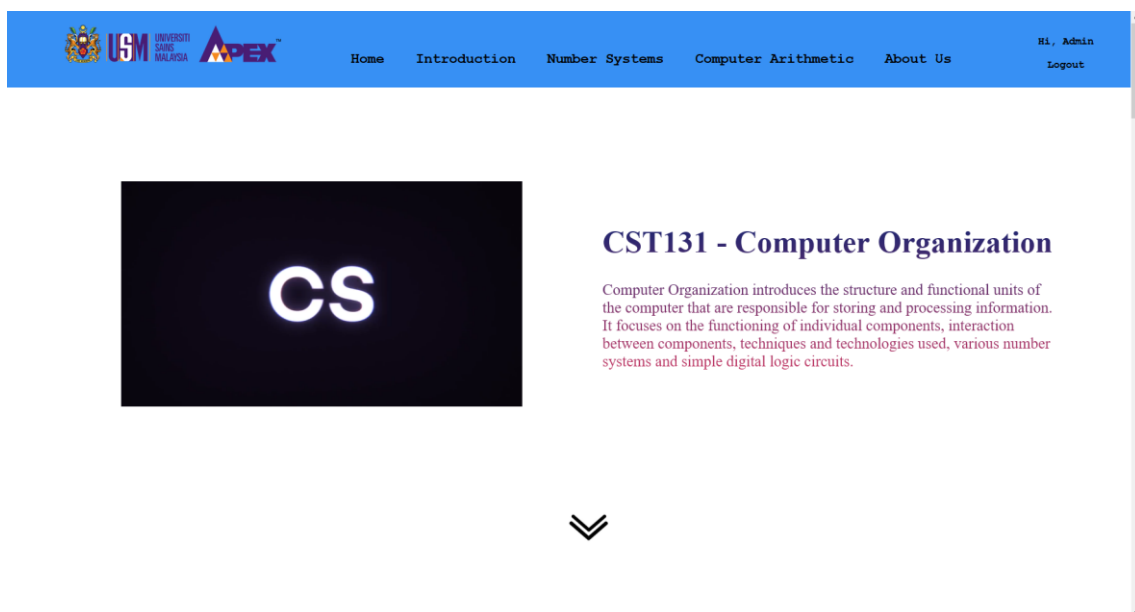*Figure 3. Login pop up*

Figure 4. User can log out by clicking "log out" button below the username

2.2 <u>Functionality</u>

Some of the functionalities of the website are:

a. New users can sign up while existing users can log in and log out.

b. User can choose the content of subject section by clicking the section at the top of the page.

c. User can directly go to "About Us" section by clicking the "About Us" button that is located near the login button.

d. User can see the name and matric number of the team member by moving the mouse to the image of the selected team member.

2.3 <u>Content of the Website</u>

The content of the web page is shown as below. The main title of our single website is "CST131-Computer Organization", a subject we took during Year 1. There are five sections in our website page. One for home, three for content and one for "About Us".

2.3.1 Home Section

For home section, we have included a muted video and some explanations about the subject:

- Computer Organization introduces the structure and functional units of the computer that are responsible for storing and processing information. It focuses on the functioning of individual components, interaction between components, techniques and technologies used, various number systems and simple digital logic circuits.

2.3.2 Content of subject Section

There are three sections that we include for content to describe the Computer Organization subject:

1. Introduction

   - Architecture and Organization

   - Structure and Function

   - Main Computer Structure

   - Main CPU Structure

   - Main Functions of a Computer

   - Cloud Computing

   - Performance Assessment

2. Number Systems

   - Decimal Systems

   - Binary Systems

   - Character Code

3. Computer Arithmetic

   - Integer Representation

   - Two's Compliment

   - Addition and Subtraction

   - Multiplication

   - Division

2.3.3 About us Section

There will be a section called "About Us" as the last section of our web page. The picture of our team is included. If the user's cursor is moved to the picture, it will show the member's description, which are the name and matric number.
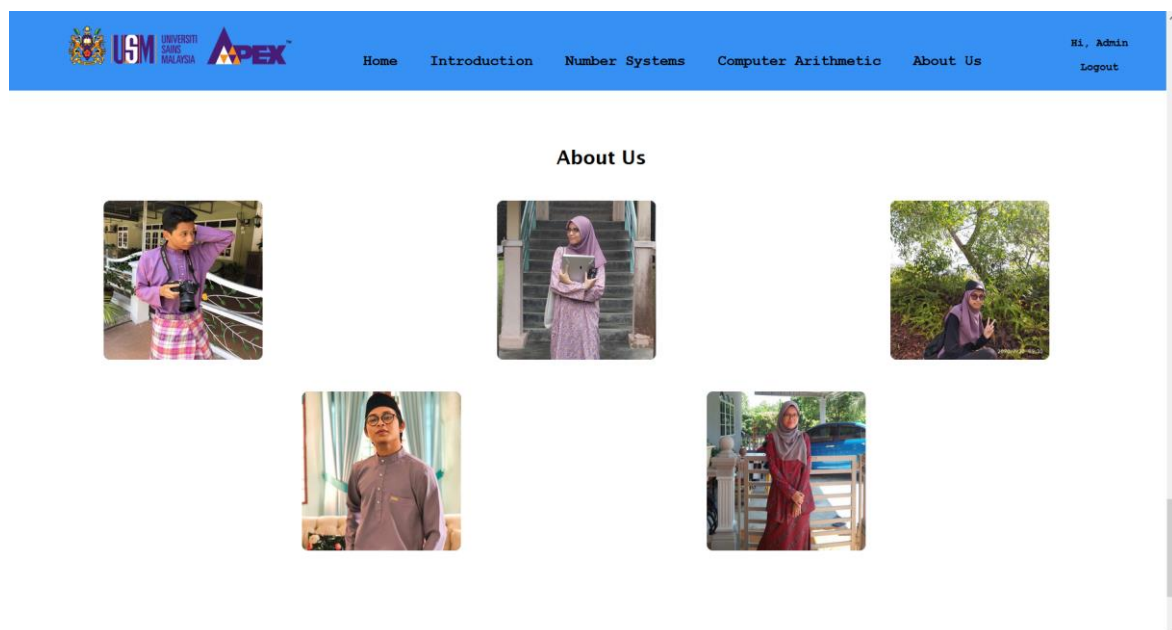

Figure 5. About Us Section

3.0 Print Screen/Screenshot

3.1 Screenshot for Whole Webpage
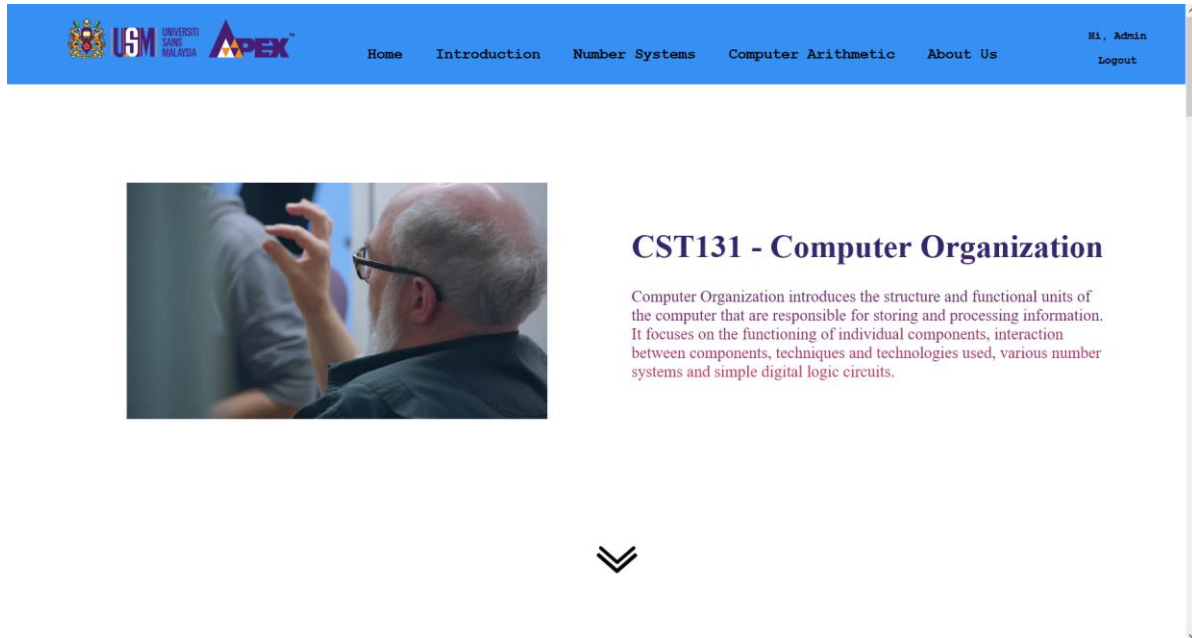

Figure 6. Screenshot 1
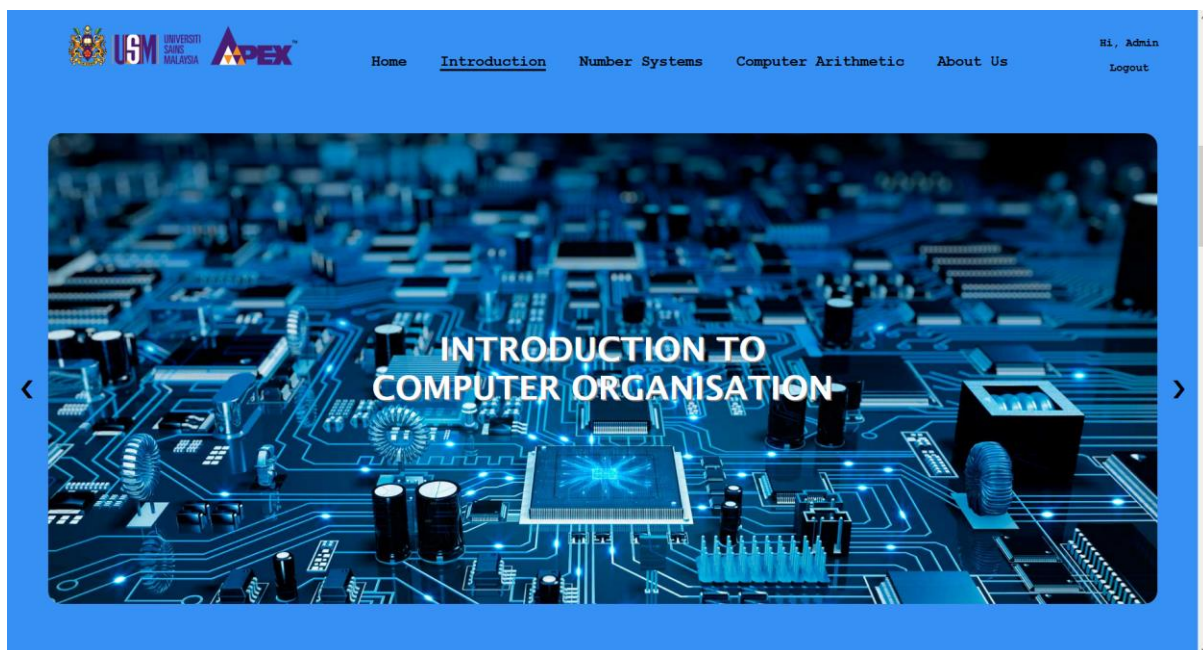
Figure 7. Screenshot 2
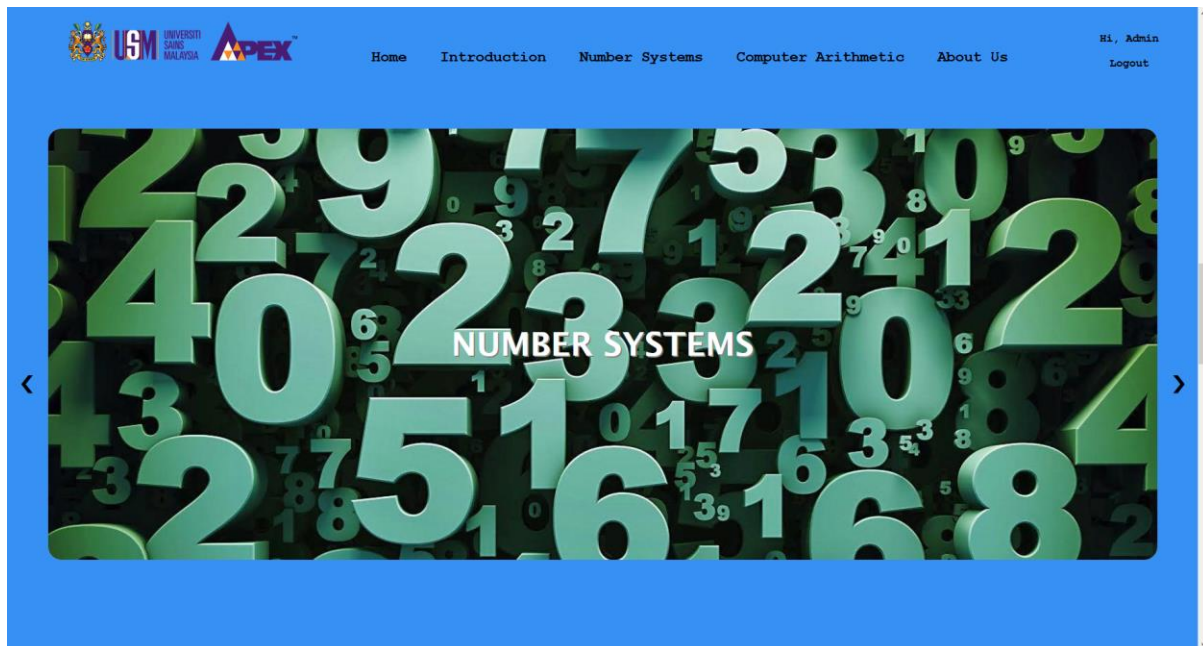
Figure 8. Screenshot 3
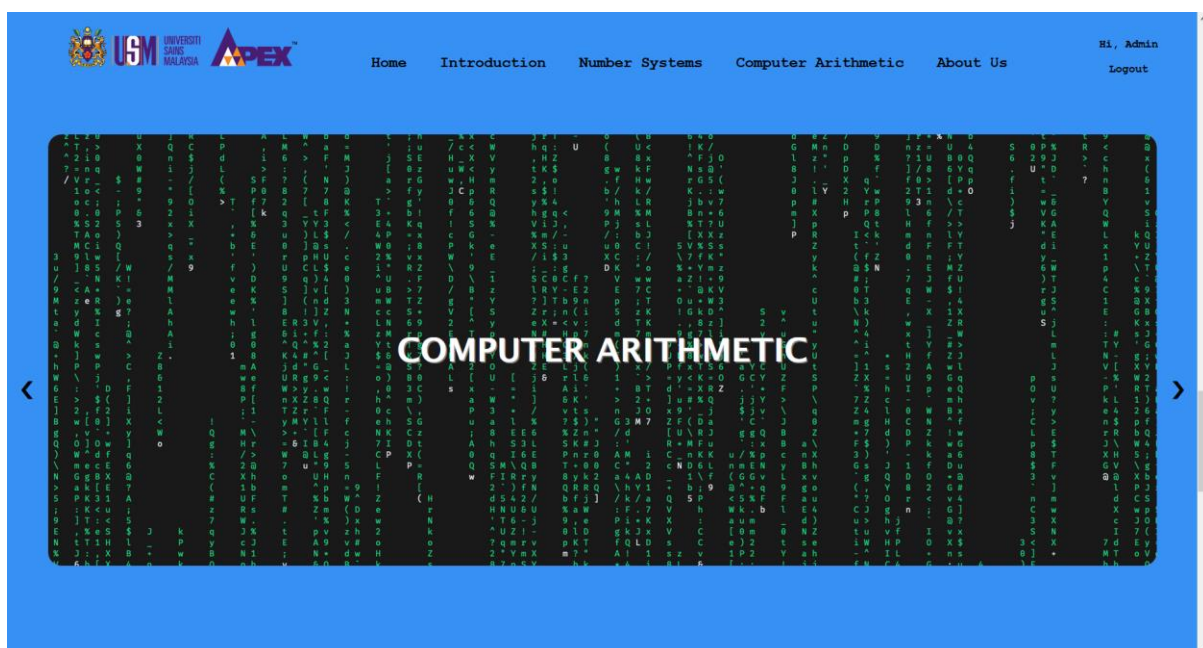
Figure 9. Screenshot 4
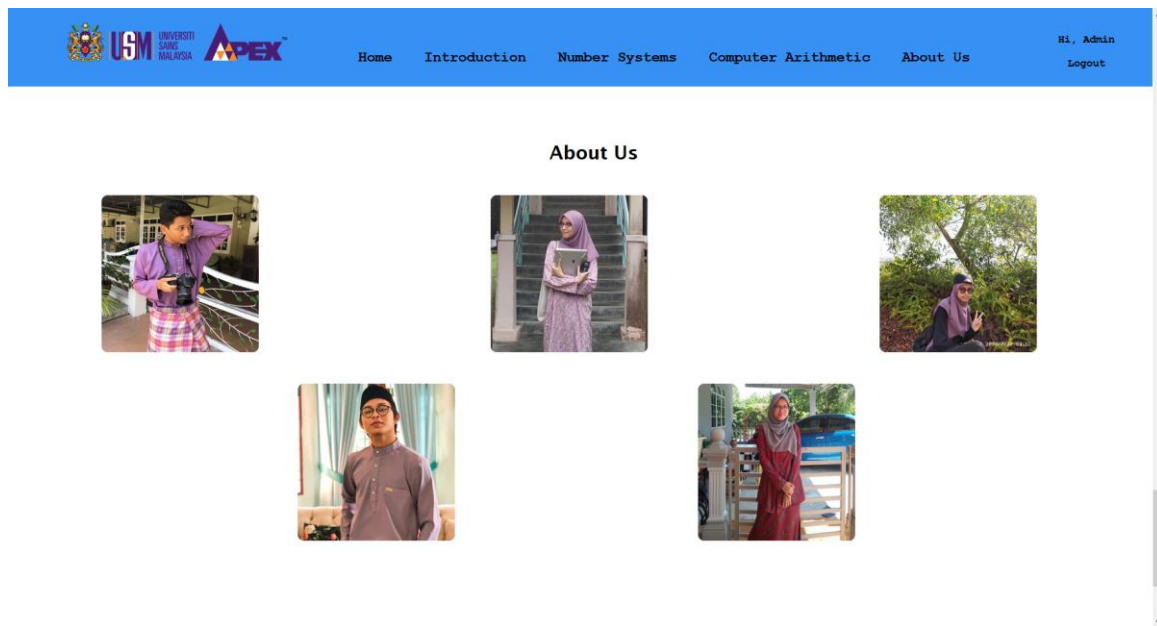
Figure 10. Screenshot 5

3.2 Screenshot of Features
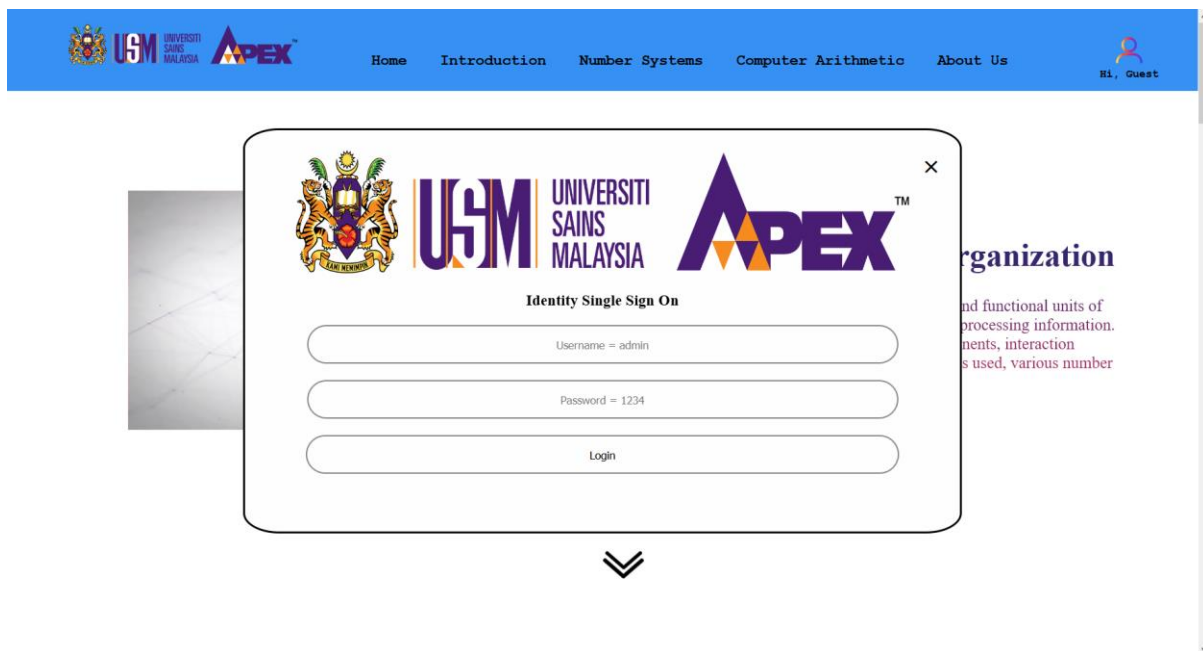
Figure 11. Login Feature
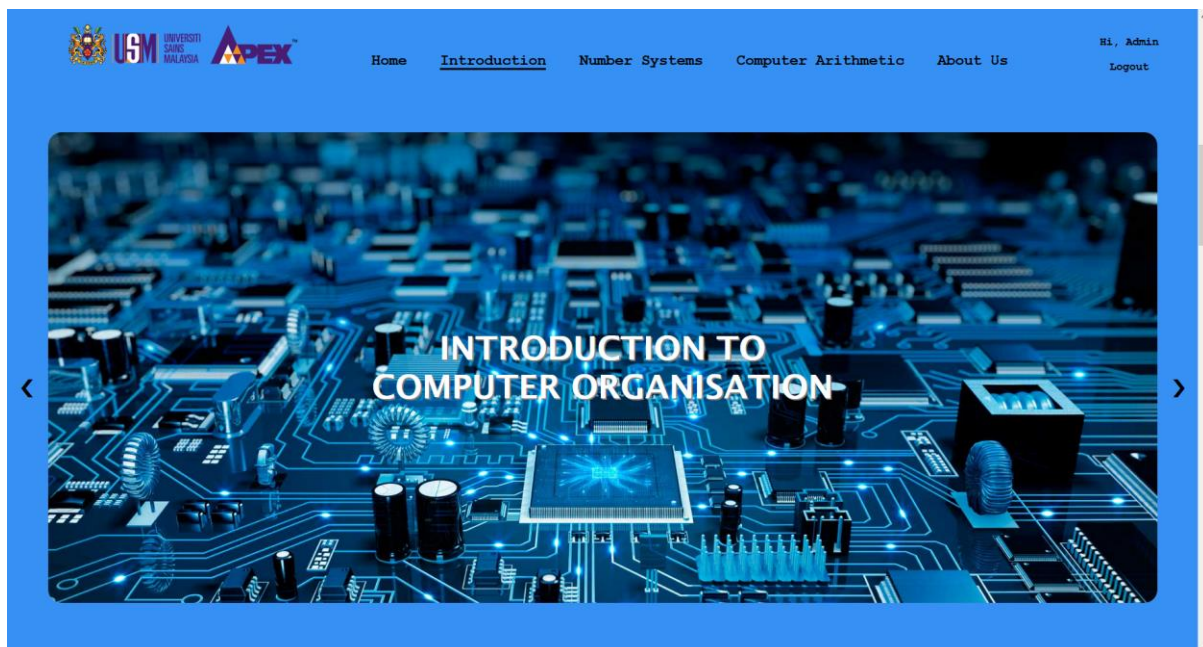
Figure 12. Slide Feature

4.0 Program Code

4.1 <u>index.php</u>

```php
1. <?php
2.     session_start();
3.
4.     $_POST['type'] = "Guest";
5.     $_POST['username'] = "admin";
6.     $_POST['password'] = "1234";
7.
8.     session_write_close();
9.
10.        if(isset($_POST['Login']) && !emptyempty($_POST[
   'uname']) && !emptyempty($_POST['pswd'])){
11.            if($_POST['uname'] == 'user' && $_POST['pswd
   '] == '1234'){
12.                $_POST['valid'] = true;
13.                $_POST['timeout'] = time();
14.                $_POST['username'] = 'admin';
15.            }
16.        }
17.    ?>
18.
19.
20.    <!DOCTYPE html>
21.    <html>
22.
23.    <head>
24.        <title>Assignment 2 CPT211</title>
25.        <meta charset="UTF-8"/>
26.        <meta name="viewport" content="width=device-
   width, initial-scale=1.0"/>
```

```html
27.        <link rel="stylesheet" href="style.css">

28.     </head>

29.

30.     <body>

31.         <!--header-->

32.         <div id="main" class="row">

33.             <header>

34.                 <nav>

35.                     <ul>

36.                         <li><img src="images/usm.png" alt="" class="logo"></li>

37.                         <li> <a href="#main">Home</a> </li>

38.                         <li> <a href="#intro">Introduction</a> </li>

39.                         <li> <a href="#numSys">Number Systems</a> </li>

40.                         <li> <a href="#compArith">Computer Arithmetic</a> </li>

41.                         <li> <a href="#about">About Us</a> </li>

42.                         <li>

43.                             <?php

44.                             session_start();

45.                             if(isset($_POST['uname'])) : ?>

46.                                 <button>Hi, Admin<br><br><a href="logout.php">Logout</a></button>

47.

48.                             <?php else : ?>

49.                                 <button onclick="document.getElementById('login').style.display='block'">
```

```
50.                                    <img
   src="images/profile.png" class="profile"
   alt="login"><br>Hi, Guest</br></button>

51.

52.                              <?php endif ?>

53.                         </li>

54.                    </ul>

55.               </nav>

56.          </header>

57.

58.          <div class="row">

59.

60.               <div class="six">

61.                    <video width="520" height="340"
   autoplay muted loop class="video">

62.                         <source src="video/The Power of
   Computer Science.mp4" type="video/mp4">

63.                    </video>

64.               </div>

65.

66.               <div class="five">

67.                    <div class="caption">

68.                         <h1>CST131 - Computer
   Organization</h1>

69.                         <p> Computer Organization
   introduces the structure and functional units of the
   computer that are responsible for

70.                         storing and processing
   information. It focuses on the functioning of individual
   components, interaction between

71.                         components, techniques and
   technologies used, various number systems and simple
   digital logic circuits.</p>

72.                    </div>

73.               </div>
```

```
74.

75.                    </div>

76.

77.                    <div class="row">

78.                          <input type="image" src="images/arrow-
   down.png" id="arrow-down" Title="See More">

79.                    </div>

80.              </div>

81.

82.              <!--Introduction-->

83.              <section>

84.                    <div id="intro" class="row">

85.

86.                          <div id="slide1" class="slideshow-
   container">

87.                                <div class="mySlides"
   style="background-image: url(images/intro.jpg);
   background-repeat: no-repeat; background-size: cover;">

88.                                      <p
   class="headslide">INTRODUCTION TO<br>COMPUTER
   ORGANISATION</p>

89.                                </div>

90.                                <div class="mySlides fade">

91.                                      <p>ARCHITECTURE AND
   ORGANISATION</p>

92.                                      <p>->Architecture refers to the
   attributes of a computer that visible to the
   programmer.</p>

93.                                      <p>->Organisation refers to how
   the architectural specification is
   realized/implimneted.</p>

94.                                </div>

95.                                 <div class="mySlides fade">

96.                                      <p>STRUCTURE AND FUNCTION</p>
```

97.   <p>->Structure is the way which components relate to each other</p>

98.   <p>->Function is the operation of the individual component as part of the structure</p>

99.   </div>

100.   <div class="mySlides fade">

101.   <p>MAIN COMPUTER STRUCTURE</p>

102.   Central Processing Unit (CPU)

103.   Main Memory

104.   I/O

105.   System Interconnection

106.

107.   </div>

108.   <div class="mySlides fade">

109.   <p>MAIN CPU STRUCTURE</p>

110.   Arithmetic and Logic Unit (ALU)

111.   Registers

112.   Control Unit

113.   Internal CPU Interconnection

114.

115.   </div>

116.   <div class="mySlides fade">

117.   <p>MAIN FUNCTIONS OF A COMPUTER</p>

118.   Data Movement

119.   Data Storage

120.   Control

121.   Data Processing

122.

```html
123.                    </div>
124.                    <div class="mySlides fade">
125.                        <p>CLOUD COMPUTING</p>
126.                        <p>Internet-connected
    infrastructure</p>
127.                    </div>
128.                    <div class="mySlides fade">
129.                        <p>PERFORMANCE ASSESSMENT</p>
130.                        <p>Depends on instructure set,
    choice of implementation language, efficiency of the
    compiler and skill of the programming done.</p>
131.                    </div>
132.
133.                    <!--Next/prev buttons-->
134.                    <a class="prev"
    onclick="plusSlides(-1,slide1)">❮</a>
135.                    <a class="next"
    onclick="plusSlides(1,slide1)">❯</a>
136.
137.                </div>
138.
139.           </div>
140.       </section>
141.
142.       <!--Number Systems-->
143.       <section>
144.           <div id="numSys" class="row">
145.
146.               <div id="slide2" class="slideshow-
    container">
147.                   <div class="mySlides"
    style="background-image: url(images/numsys.jpg);
    background-repeat: no-repeat; background-size: cover;">
```

148.   <p class="headslide">NUMBER SYSTEMS</p>

149.   </div>

150.   <div class="mySlides fade">

151.   <p>DECIMAL SYSTEMS</p>

152.

153.   Decimal systems is used with decimal digits: 0,1,2,3,4,5,6,7,8,9

154.   A decimal system is a base or radix 10.

155.   Example: 83 = (8 × 10^1) + (3 × 100)

156.

157.   </div>

158.   <div class="mySlides fade">

159.   <p>BINARY SYSTEM</p>

160.

161.   Binary system only consists of two digits, 0 and 1.

162.   For larger numbers, each digit in a binary number has a value depending on its position (as in decimal system)

163.   Example: 102 = (1 × 2^1) + (0 × 20) = 210

164.

165.   </div>

166.   <div class="mySlides fade">

167.   <p>CHARACTER CODE</p>

168.

169.   Character code defines how the bits in a stream of text are mapped to the characters they represent

170.   The most common one is ASCII code, but there are also BCD code and 8-bit EBCDIC.

```
171.                    </ul>

172.                </div>

173.

174.                <!--Next/prev buttons-->

175.                <a class="prev"
   onclick="plusSlides(-1,slide2)">❮</a>

176.                <a class="next"
   onclick="plusSlides(1,slide2)">❯</a>

177.

178.            </div>

179.

180.        </div>

181.    </section>

182.

183.    <!--Computer Arithmetic-->

184.    <section>

185.        <div id="compArith" class="row">

186.

187.            <div id="slide3" class="slideshow-
   container">

188.                <div class="mySlides"
   style="background-image: url(images/comparith.png);
   background-repeat: no-repeat; background-size: cover;">

189.                    <p class="headslide">COMPUTER
   ARITHMETIC</p>

190.                </div>

191.                <div class="mySlides fade">

192.                    <p>INTEGER REPRESENTATION</p>

193.                    <ul>

194.                        <li>Only have 0 & 1 to
   represent everything</li>

195.                        <li>Binary digit or a
   bit</li>
```

```
196.                    <li>No minus sign, no
    period</li>
197.                    <li>Two ways: Sign-Magnitude
    and Two's compliment</li>
198.                </ul>
199.            </div>
200.            <div class="mySlides fade">
201.                <p>Two's Compliment</p>
202.                <ul>
203.                    <li>Most significant bit is
    sign bit</li>
204.                    <li>One representation of
    zero</li>
205.                    <li>Example: +0 =
    00000000</li>
206.                </ul>
207.            </div>
208.            <div class="mySlides fade">
209.                <p>Addition and Subtraction</p>
210.                <ul>
211.                    <li>Normal binary
    addition</li>
212.                    <li>Monitor sign bit for
    overflow <br>
213.                        Overflow rule: if two
    number added, and both positive or both negative,
214.                        overflow occurs if and
    only if result has opposite sign</li>
215.                    <li>Subtraction rule: take
    twos compliment of subtrahend and add to minuend</li>
216.                </ul>
217.            </div>
218.            <div class="mySlides fade">
219.                <p>Multiplication</p>
```

```
220.                          <ul>
221.                              <li>Work out partial product
     for each digit</li>
222.                              <li>Take care with place
     value (column)</li>
223.                              <li>Add partial
     products</li>
224.                          </ul>
225.                      </div>
226.                      <div class="mySlides fade">
227.                          <p>Multiplication</p>
228.                          <ul>
229.                              <li>How can this be more
     efficient?</li>
230.                              <li>Perform running addition
     on partial products</li>
231.                              <li>Save time on generation
     of partial products</li>
232.                              <li>example: For each 0 on
     multiplier, only a shift is required</li>
233.                          </ul>
234.                      </div>
235.                      <div class="mySlides fade">
236.                          <p>Division</p>
237.                          <ul>
238.                              <li>To deal with negative
     numbers</li>
239.                              <li>Convert the operands
     into unsigned values</li>
240.                              <li>Account for the signs by
     complementation where needed</li>
241.                          </ul>
242.                      </div>
243.
```

```
244.                    <!--Next/prev buttons-->
245.                    <a class="prev"
    onclick="plusSlides(-1,slide3)">❮</a>
246.                    <a class="next"
    onclick="plusSlides(1,slide3)">❯</a>
247.

248.                    </div>

249.

250.            </div>

251.        </section>

252.

253.        <!--About-->

254.        <section>

255.            <div id="about" class="row">

256.                <div class="eleven">

257.                    <h1 style="text-align: center; font-
    family: 'Lucida Sans'; padding-left:20px">About Us</h1>

258.                </div>

259.                <div class="four">

260.                    <div class="flip-card-container">

261.                        <div class="flip-card">

262.                            <div class="flip-card-
    front">

263.                                <img
    src="images/adlifuddin.jpg" alt="adli" style="border-
    radius: 0.5rem;">

264.                            </div>

265.

266.                            <div class="flip-card-back">

267.                                <p>

268.                                    Muhammad Adlifuddin
    Bin Zanizam <br><br> 141288

269.                                </p>
```

```
270.                           </div>
271.                         </div>
272.                       </div>
273.                   </div>
274.
275.             <div class="four">
276.                 <div class="flip-card-container">
277.                     <div class="flip-card">
278.                         <div class="flip-card-
    front">
279.                             <img
    src="images/farhana.jpg" alt="farhana" style="border-
    radius: 0.5rem;">
280.                         </div>
281.
282.                         <div class="flip-card-back">
283.                             <p>
284.                                 Farhana Zulaikha
    Binti Fadzli <br><br> 143949
285.                             </p>
286.                         </div>
287.                       </div>
288.                   </div>
289.               </div>
290.
291.             <div class="three">
292.                 <div class="flip-card-container">
293.                     <div class="flip-card">
294.                         <div class="flip-card-
    front">
295.                             <img
    src="images/dinul.jpg" alt="dinul" style="border-radius:
    0.5rem;">
```

```
296.                              </div>

297.

298.                              <div class="flip-card-back">

299.                                 <p>

300.                                    Dinulhuda Nabilah
    Binti Ahmad Fuad <br><br> 143302

301.                                 </p>

302.                              </div>

303.                           </div>

304.                        </div>

305.                     </div>

306.

307.                  <div class="five">

308.                     <div class="flip-card-container"
    style="margin-left:300px">

309.                        <div class="flip-card">

310.                           <div class="flip-card-
    front">

311.                              <img
    src="images/zamil.jpg" alt="izzati" style="border-radius:
    0.5rem;">

312.                           </div>

313.

314.                           <div class="flip-card-back">

315.                              <p>

316.                                 Zamil Haikal Bin
    Zamri <br><br> 141654

317.                              </p>

318.                           </div>

319.                        </div>

320.                     </div>

321.                  </div>

322.
```

```html
323.                    <div class="five">
324.                        <div class="flip-card-container"
     style="margin-left:190px">
325.                            <div class="flip-card">
326.                                <div class="flip-card-
     front">
327.                                    <img
     src="images/izzati.jpg" alt="izzati" style="border-
     radius: 0.5rem;">
328.                                </div>
329.
330.                                <div class="flip-card-back">
331.                                    <p>
332.                                        Nurul Izzati bt
     Roslin <br><br> 144098
333.                                    </p>
334.                                </div>
335.                            </div>
336.                        </div>
337.                    </div>
338.
339.            </div>
340.        </section>
341.
342.        <!--footer-->
343.        <div class="row">
344.            <footer>
345.                <p>Copyright © 2019 - Universiti Sains
     Malaysia</p>
346.            </footer>
347.        </div>
348.
349.        <!--login form-->
```

```html
350.        <div id="login" class="form">

351.

352.            <form class="form-content animate" method="post">

353.

354.                <div class="imgcontainer">

355.                    <span onclick="document.getElementById('login').style.display='none'" class="close" title="Close PopUp">×</span>

356.                    <img src="images/usm.png" alt="usm" class="box-logo">

357.                    <h3 style="text-align:center">Identity Single Sign On</h3>

358.                </div>

359.

360.                <div>

361.                    <input type="text" placeholder="Username = admin" name="uname">

362.                    <input type="password" placeholder="Password = 1234" name="pswd">

363.                    <input type="submit" name="" value="Login">

364.                </div>

365.

366.            </form>

367.

368.        </div>

369.

370.        <script src="func.js"></script>

371.    </body>

372.    </html>
```

4.2 logout.php

```php
1.  <?php
2.      session_start();
3.      session_unset();
4.      session_destroy();
5.      header('Location: index.php');
6.  ?>
```

4.3 style.css

```css
1.  body {
2.      font-family: 'Times New Roman', Times, serif;
3.      margin: 0;
4.      padding: 0;
5.      box-sizing: border-box;
6.      overflow-x: hidden;
7.  }
8.
9.  .container {
10.     text-align: center;
11.     margin: 0 auto;
12.     padding: 0 3rem;
13. }
14.
15. .section {
16.     padding: 2rem 0;
17. }
18.
19. /* header */
20. nav {
21.     font-family: 'Courier New', Courier, monospace;
```

```css
22.        font-size: 18px;
23.        color: rgb(107, 35, 175);
24.        height: 100px;
25.        width: 100%;
26.        background-color: #3790f4;
27.        position: fixed;
28.        z-index: 1000;
29.    }
30.
31.    nav ul{
32.        list-style-type: none;
33.    }
34.
35.    nav ul li{
36.        display: inline;
37.        padding: 0px 15px 0px 15px;
38.    }
39.
40.    nav ul li a{
41.        position: relative;
42.        font-weight: bolder;
43.        text-decoration: none;
44.        color: black;
45.    }
46.
47.    nav ul li a:after{
48.        content: '';
49.        position: absolute;
50.        left: 50%;
51.        bottom: 0;
52.        transform: translateX(-50%) scaleX(0);
```

```css
53.        -webkit-transform: translateX(-50%) scaleX(0);
54.        -webkit-transform-origin: 50% 50%;
55.        transform-origin: 50% 50%;
56.        width: 100%;
57.        height: 2px;
58.        background-color: black;
59.        -webkit-transition: transform 250ms;
60.        transition: transform 250ms;
61.    }
62.
63.    nav ul li a:hover:after{
64.        -webkit-transform: translateX(-50%) scaleX(1);
65.        transform: translateX(-50%) scaleX(1);
66.    }
67.
68.    .logo{
69.        margin-left: 20px;
70.        height: 50px;
71.        width: 280px;
72.        padding-right: 50px;
73.    }
74.
75.    .profile{
76.        height: 35px;
77.        width: 35px;
78.    }
79.
80.    button{
81.        background-color: #3790f4 ;
82.        font-family: 'Courier New', Courier, monospace;
83.        font-weight: bold;
```

```css
84.        text-align: center;
85.        border-radius: 10%;
86.        border: none;
87.        float: right;
88.        margin-right: 40px;
89.        margin-top: 15px;
90.    }
91.
92.    /* main */
93.    #main{
94.        margin: 0;
95.        padding: 0 0 100px 0;
96.        width: 100%;
97.        height: 100vh;
98.        overflow-y: hidden;
99.        background: rgb(255, 255, 255);
100. }
101.
102. .caption{
103.        max-width: 600px;
104.        font-size: 20px;
105.        margin-top: 35vh;
106.        background: -webkit-linear-gradient(#1D2671,
#C33764);
107.        -webkit-background-clip: text;
108.        -webkit-text-fill-color: transparent;
109. }
110.
111. .video{
112.        margin-top: 25vh;
113.        margin-left: 15vh;
```

```css
114. }
115.
116. #arrow-down{
117.     margin-top: 130px;
118.     margin-left: 50%;
119.     width:50px;
120.     height:50px;
121.     -webkit-animation: floating-animation 3s ease-in-out
infinite;
122.     -o-animation: floating-animation 3s ease-in-out
infinite;
123.     animation: floating-animation 3s ease-in-out
infinite;
124. }
125.
126. @keyframes floating-animation{
127.
128.     0%{
129.         -webkit-animation: translateY(0);
130.         -moz-transform: translateY(0);
131.         -ms-transform: translateY(0);
132.         -o-transform: translateY(0);
133.         transform:translateY(0) ;
134.     }
135.
136.     50%{
137.         -webkit-animation: translateY(-50px);
138.         -moz-transform: translateY(-50px);
139.         -ms-transform: translateY(-50px);
140.         -o-transform: translateY(-50px);
141.         transform:translateY(-50px) ;
142.     }
```

```css
143.
144.    100%{
145.        -webkit-animation: translateY(0);
146.        -moz-transform: translateY(0);
147.        -ms-transform: translateY(0);
148.        -o-transform: translateY(0);
149.        transform:translateY(0) ;
150.    }
151. }
152.
153. /* Intro */
154. #intro{
155.     background-color: #3790f4;
156.     margin: 0;
157.     width: 100%;
158.     padding-top: 100px;
159. }
160.
161. /* Number System */
162. #numSys{
163.     background-color: #3790f4;
164.     margin: 0;
165.     width: 100%;
166.     padding-top: 100px;
167. }
168.
169. /* Computer Arithmetic */
170. #compArith{
171.     background-color: #3790f4;
172.     margin: 0;
173.     width: 100%;
```

```css
174.    padding-top: 100px;
175. }
176.
177. /* about */
178. #about{
179.    background-color: white;
180.    margin: 0;
181.    width: 100%;
182.    height: 100vh;
183.    padding-top: 150px;
184.    padding-left: 40px;
185. }
186.
187. /*footer*/
188. footer{
189.    font-size: 16px;
190.    text-align: center;
191.    background-color: #3790f4;
192.    padding: 10px 0px 10px 0px;
193. }
194.
195. /* Slide Word Styling */
196. .headslide{
197.    text-shadow: 1.5px 1.5px grey;
198.    font-size: 40px;
199.    color: white;
200. }
201.
202. /* slide animation */
203. .slideshow-container{
204.    box-sizing: border-box;
```

```css
205.     position: relative;

206.     width: 100%;

207.     float: left;

208.     margin-left: 0%;

209.     height: 100vh;

210.     background-color: #3790f4;

211. }

212.

213. .mySlides{

214.     display: none;

215.     position: static;

216.     text-align: center;

217.     margin: 50px 50px 50px 50px;

218.     padding: 200px;

219.     background-color: white;

220.     border-radius: 1rem;

221.     font-family: 'Lucida Sans', 'Lucida Sans Regular',
'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-
serif;

222.     font-weight: bold;

223.     font-size: larger;

224. }

225.

226. .prev, .next{

227.     cursor: pointer;

228.     position: absolute;

229.     top: 45%;

230.     width: auto;

231.     margin-top: -30px;

232.     padding: 16px;

233.     color: black;

234.     font-weight: bold;
```

```
235.        font-size: 30px;
236.        border-radius: 0 3px 3px 0;
237.        user-select: none;
238. }
239.
240. /* Put next button at right */
241. .next {
242.        position: absolute;
243.        right: 0;
244.        border-radius: 3px 0 0 3px;
245. }
246.
247. /* change button color when cursor is pointed */
248. .prev:hover, .next:hover {
249.        background-color: rgba(0,0,0,0.8);
250.        color: white;
251. }
252.
253. /* Fade animation */
254. .fade {
255.        -webkit-animation-name: fade;
256.        -webkit-animation-duration: 1.5s;
257.        animation-name: fade;
258.        animation-duration: 1.5s;
259. }
260.
261. @-webkit-keyframes fade {
262.        from {opacity: .4}
263.        to {opacity: 1}
264. }
265.
```

```
266. @keyframes fade {
267.     from {opacity: .4}
268.     to {opacity: 1}
269. }
270.
271. /* login box form */
272.
273. /* input fields */
274. input[type=text], input[type=password] {
275.     border:0;
276.     background: none;
277.     display: block;
278.     margin: 20px auto;
279.     text-align: center;
280.     border: 2px solid grey;
281.     padding: 14px 10px;
282.     width: 700px;
283.     outline: none;
284.     color: rgb(0, 0, 0);
285.     border-radius: 24px;
286.     transition: 0.25s;
287. }
288.
289. input[type = "text"]:focus, input[type =
"password"]:focus{
290.     width: 750px;
291.     border-color: #3790f4;
292. }
293.
294. input[type = "submit"]{
295.     border:0;
```

```css
296.     background: none;
297.     display: block;
298.     margin: 20px auto;
299.     text-align: center;
300.     border: 2px solid grey;
301.     padding: 14px 40px;
302.     outline: none;
303.     color: rgb(0, 0, 0);
304.     border-radius: 24px;
305.     transition: 0.25s;
306.     cursor: pointer;
307.     width: 725px;
308. }
309.
310. input[type = "submit"]:hover{
311.     background: #3790f4;
312. }
313.
314. /* adjust image and place close button */
315. .imgcontainer {
316.     text-align: center;
317.     margin: 24px 0 12px 0;
318.     position: relative;
319. }
320.
321. .box-logo {
322.     width: 750px;
323.     height:150px;
324. }
325.
326. /* login box form */
```

```css
327. .form {
328.     display:none;
329.     position: fixed;
330.     z-index: 1;
331.     left: 0;
332.     top: 0;
333.     width: 100%;
334.     height: 100%;
335.     overflow: hidden;
336. }
337.
338. /* login box form content */
339. .form-content {
340.     background-color: #fefefe;
341.     margin: 10% auto 15% auto;
342.     border: 3px solid black;
343.     border-radius: 5%;
344.     width: 60%;
345.     padding-bottom: 50px;
346. }
347.
348. /* close button */
349. .close {
350.     position: absolute;
351.     right: 25px;
352.     top: 0;
353.     color: #000;
354.     font-size: 35px;
355.     font-weight: bold;
356. }
357.
```

```css
358. .close:hover, .close:focus {
359.     color: red;
360.     cursor: pointer;
361. }
362.
363. /* Zoom Animation */
364. .animate {
365.     animation: zoom 0.6s
366. }
367. @keyframes zoom {
368.     from {transform: scale(0)}
369.     to {transform: scale(1)}
370. }
371.
372. /* Flip Animation */
373. .flip-card-container {
374.     width: 200px;
375.     height: 200px;
376.     perspective: 1000px;
377.     margin: 20px 0px 20px 50px;
378. }
379.
380. .flip-card {
381.     position: relative;
382.     width: 100%;
383.     height: 100%;
384.     transition: transform 1s;
385.     transform-style: preserve-3d;
386.387.
388. .flip-card-container:hover .flip-card {
```

```
389.        transform: rotateY(180deg); /* <=>  rotateY(.5turn)
*/
390. }
391.
392. /* Position the front and back side */
393. .flip-card-front, .flip-card-back {
394.        position: absolute;
395.        width: 100%;
396.        height: 100%;
397.        -webkit-backface-visibility: hidden; /* Safari */
398.        backface-visibility: hidden;
399.        display: flex;
400.        justify-content: center;
401.        align-items: center;
402.        border-radius: 0.5rem;
403. }
404.
405. .flip-card-front {
406.        background-color: #3790f4;
407. }
408.
409. .flip-card-back {
410.        background-color: #3790f4;
411.        color: black;
412.        transform: rotateY(180deg);
413.        font-family: 'Courier New', Courier, monospace;
414.        font-weight: bold;
415. }
416.
417. .flip-card-front img {
418.        width: 100%;
```

```css
419.        height: 100%;
420.    }
421.
422.    .flip-card-back p {
423.        text-align: center;
424.        margin: 1rem;
425.        font-size: 1.4rem;
426.        line-height: 1.5rem;
427.    }
428.
429.    .flip-card-back p span {
430.        display: block;
431.        font-size: 1rem;
432.        font-style: italic;
433.        font-weight: bold;
434.        margin-top: 1.25rem;
435.    }
436.        }
437.    /* Grid helper */
438.    .eleven {
439.        width: 91.5%;
440.        float: left;
441.        margin-left: 2%;
442.    }
443.    .ten {
444.        width: 83%;
445.        float: left;
446.        margin-left: 2%;
447.    }
448.    .nine {
449.        width: 74.5%;
```

```
450.        float: left;
451.        margin-left: 2%;
452. }
453. .eight {
454.        width: 66%;
455.        float: left;
456.        margin-left: 2%;
457. }
458. .seven {
459.        width: 57.5%;
460.        float: left;
461.        margin-left: 2%;
462. }
463. .six {
464.        width: 49%;
465.        float: left;
466.        margin-left: 2%;
467. }
468. .five {
469.        width: 40.5%;
470.        margin-left: 2%;
471.        float:left;
472. }
473. .four {
474.        width: 32%;
475.        float:left;
476.        margin-left: 2%;
477. }
478. .three {
479.        width: 23.5%;
480.        float:left;
```

```
481.      margin-left: 2%;

482. }

483. .two {

484.      width: 15%;

485.       float:left;

486.      margin-left: 2%;


487.

488. }

489. .one {

490.      width: 6.5%;

491.       float:left;

492.      margin-left: 2%;

493. }

494. .row {

495.      width: 100%;

496.      clear: both; /* clear creates new styles for next row
*/

497.      padding: 0px;

498.      margin: 0px;

499. }
```

4.4 func.js

```
1.   //get login box form

2.   var modal = document.getElementById('login');

3.

4.   //close when user click out of login box form

5.   window.onclick = function(event) {

6.       if (event.target == modal) {

7.           modal.style.display = "none";

8.       }
```

```
9.   }
10.
11.  //slideshow
12.  var slide1 = document.getElementById("slide1");
13.  slide1.currentSlideIndex = 1;
14.  showSlides(slide1.currentSlideIndex, slide1);
15.
16.  var slide2 = document.getElementById("slide2");
17.  slide2.currentSlideIndex = 1;
18.  showSlides(slide2.currentSlideIndex, slide2);
19.
20.  var slide3 = document.getElementById("slide3");
21.  slide3.currentSlideIndex = 1;
22.  showSlides(slide3.currentSlideIndex, slide3);
23.
24.  //slide control next/prev
25.  function plusSlides(n, slide) {
26.      showSlides(slide.currentSlideIndex += n, slide);
27.  }
28.
29.  function currentSlide(n, slide) {
30.      showSlides(slide.currentSlideIndex = n, slide);
31.  }
32.
33.  function showSlides(n, slide) {
34.
35.      var i;
36.      var slides =
slide.getElementsByClassName("mySlides");
37.
38.      if (n > slides.length) {slide.currentSlideIndex = 1}
```

```
39.        if (n < 1) {slide.currentSlideIndex = slides.length}
40.        for (i = 0; i < slides.length; i++) {
41.            slides[i].style.display = "none";
42.        }
43.
44.        slides[slide.currentSlideIndex-1].style.display =
"block";
45.
46.    }
```