



FACULTY OF COMPUTER SCIENCE AND MATHEMATICS (FSKM)

CSF3133 WEB-BASED INTERFACE DESIGN (K4)

LAB 4

SEMESTER I 2025/2026

PREPARED BY:

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LECTURER:

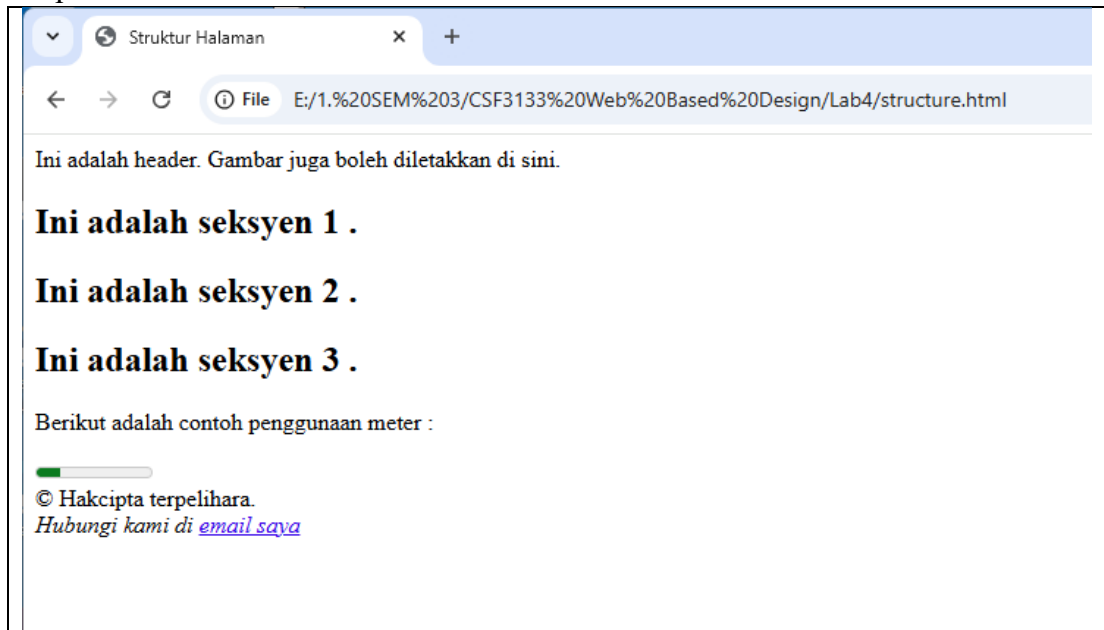
TS. DR. WAN NURAL JAWAHIR BINTI HJ WAN YUSSOF

LAB MODERATOR:

MRS. WAN FATIN FATIAH BINTI YAHYA

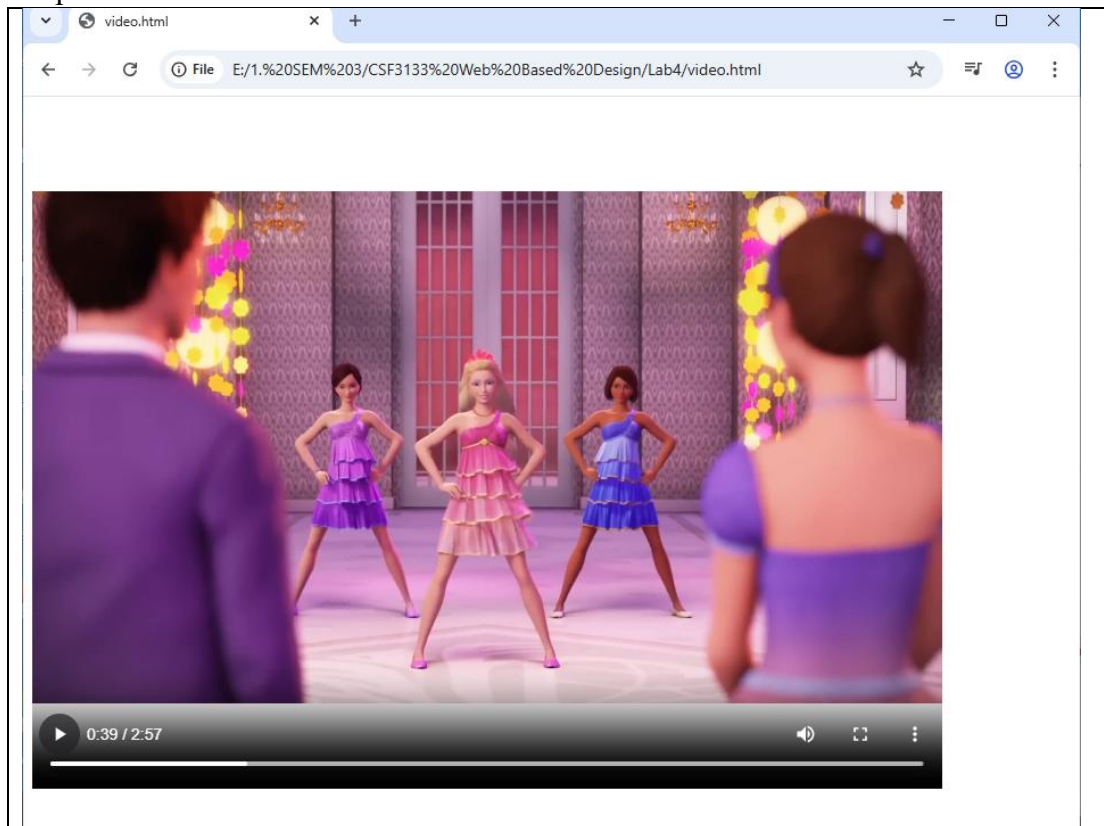
1. Activity 4.2 – Page Structure Elements

1.1. Output



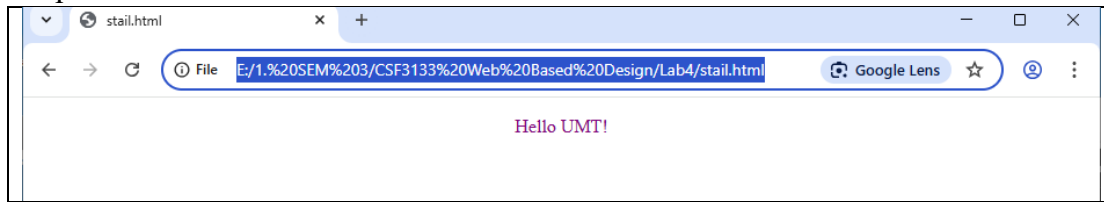
2. Activity 4.3 – Insert Video into HTML5 Document

2.1. Output



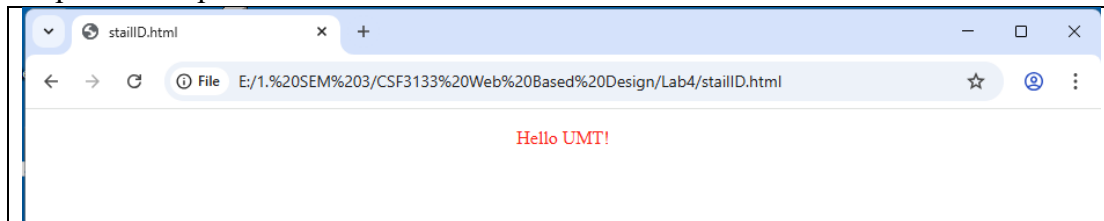
3. Activity 4.4 – Cascading Style Sheets

3.1. Output

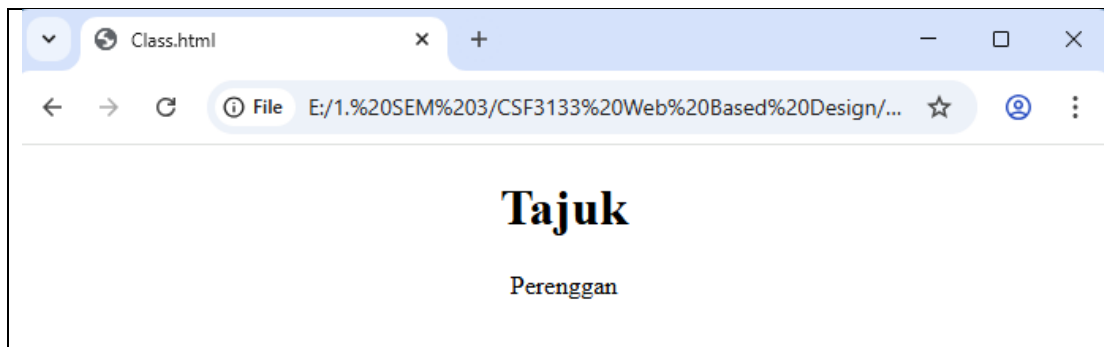


4. Activity 4.5 – Recognize ID and Selector Class

4.1. Output for Output for stailID.html

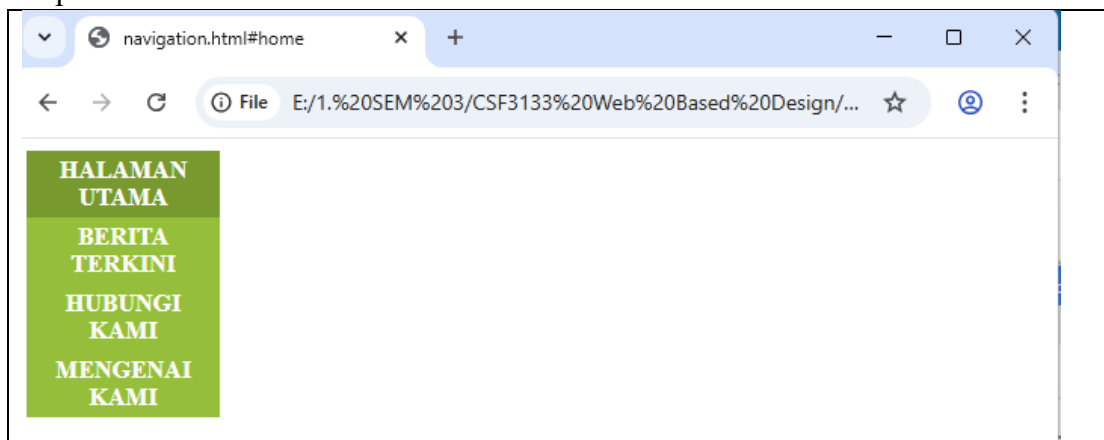


4.2. Class.html



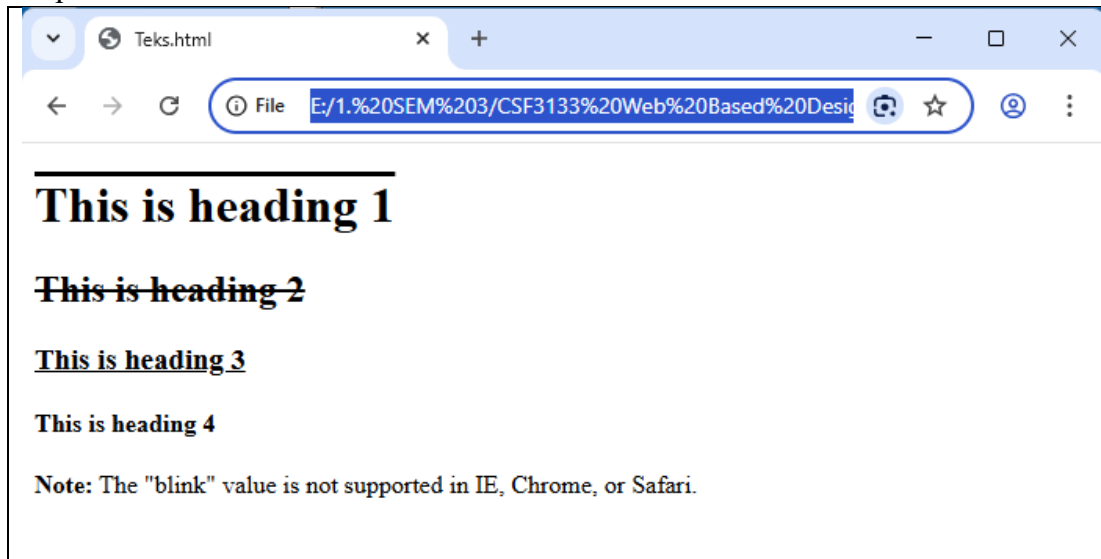
5. Activity 4.6 – Navigation Bar using CSS

5.1. Output



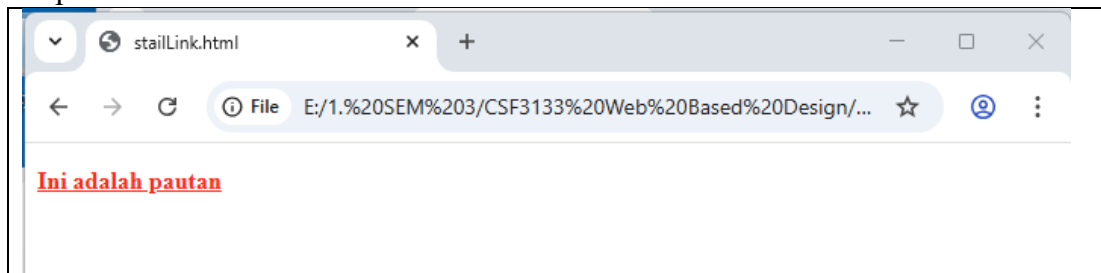
6. Activity 4.7 – Recognizing Text Decoration

6.1. Output

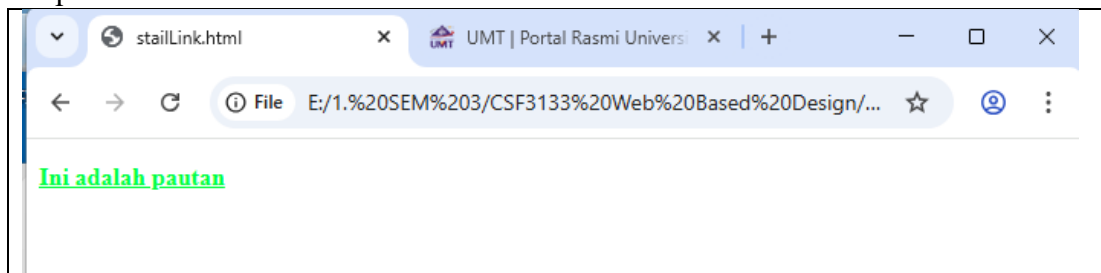


7. Activity 4.8 – Recognizing Styling Links

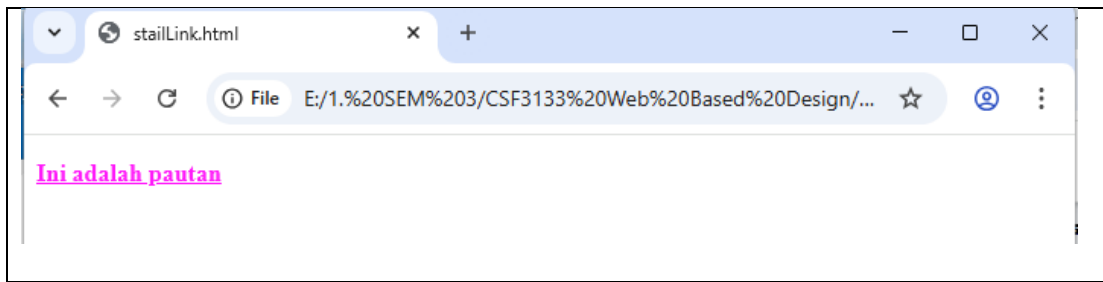
7.1. Output for unvisited link



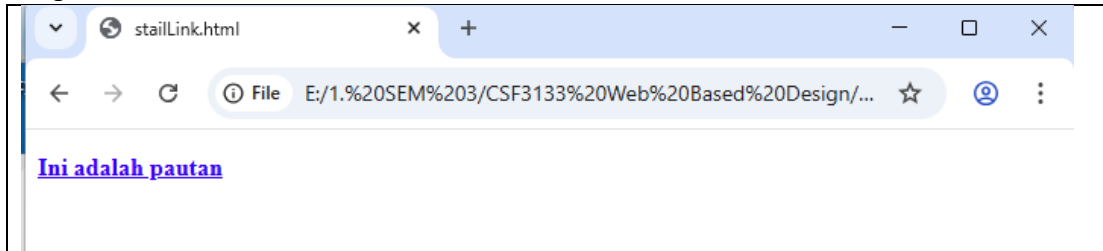
7.2. Output for visited link



7.3. Output for mouse over link



1.1. Output for selected link



2. Activity 4.9 - Lab Exercise

2.1. HTML

```

newlab4.html X # styles.css
newlab4.html > html > head > style > nav li a:link
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 <title>Lab 4 Responsive Webpage</title>
8
9 <!-- Internal CSS (for text decorations & link states only) -->
10 <style>
11 /* Headings - creative use of text-decoration */
12 h1, h2, h3, h4 {
13     text-decoration: underline;
14 }
15
16 /* Internal link styles for nav only */
17 nav li a:link {
18     color: #52002b; /* unvisited */
19 }
20
21 nav li a:visited {
22     color: #2d6c25; /* visited */
23 }
24
25 nav li a:hover {
26     color: #000000; /* hover */
27 }
28
29 nav li a:active {
30     color: #731bb2; /* active */
31 }
32 </style>
33
34
35 <!-- External CSS linked for layout, colors, responsiveness, and overall styling -->
36 <link rel="stylesheet" href="styles.css" />
37 </head>

```

```

38
39
40 <!-- Semantic header -->
41 <!-- Uses <header> to mark the top of the page -->
42 <!-- Contains main heading -->
43 <header>
44 | <h1>Welcome to My Responsive Lab 4 Webpage</h1>
45 </header>
46
47 <!-- Navigation bar with links -->
48 <!-- Uses <nav> with <ul> and <li> for semantic navigation -->
49 <!-- Links jump to different sections of the page (#videoSection, #formSection, #footerSection) -->
50 <!-- Internal CSS handles link states (:link, :visited, :hover, :active) -->
51 <nav>
52 | <ul>
53 | | <li><a href="#videoSection">Video</a></li>
54 | | <li><a href="#formSection">Contact Form</a></li>
55 | | <li><a href="#footerSection">Footer</a></li>
56 | </ul>
57 </nav>
58
59 <!-- Video embedded section -->
60 <!-- Uses <section> with semantic ID for linking from nav -->
61 <!-- Contains <video> element for media embedding -->
62 <!-- Caption added via <p><small> (optional improvement: could use <figure><figcaption>) -->
63 <section id="videoSection" class="media-section">
64 | <h2>Welcome to Barbie World</h2>
65 | <video controls>
66 | | <source src="If I Had Magic Music Video _ Barbie and the Secret Door _ @Barbie.mp4" type="video/mp4" />
67 | | Your browser does not support the video tag.
68 | </video>
69 | <p><small>Video caption: If I Had Magic Music Video _ Barbie and the Secret Door _ @Barbie.mp4.</small></p>
70 </section>
71
72 <!-- Form section -->
73 <!-- Uses <section> with semantic ID for linking from nav -->
74
75 <section id="formSection" class="form-section">
76 | <h2>Contact Us</h2>
77 | <form>
78 | | <!-- Name input -->
79 | | <label for="name">Name:</label>
80 | | <input type="text" id="name" name="name" required />
81 |
82 | | <!-- Email input -->
83 | | <label for="email">Email:</label>
84 | | <input type="email" id="email" name="email" required />
85 |
86 | | <!-- Gender radio buttons -->
87 | | <label>Gender:</label>
88 | | <div class="radio-group">
89 | | | <label><input type="radio" name="gender" value="male" /> Male</label>
90 | | | <label><input type="radio" name="gender" value="female" /> Female</label>
91 | | | <label><input type="radio" name="gender" value="other" /> Other</label>
92 | | </div><br>
93 |
94 | | <!-- Favorite hobbies checkboxes -->
95 | | <label>Favorite Hobbies:</label>
96 | | <div class="checkbox-group">
97 | | | <label><input type="checkbox" name="hobbies" value="reading" /> Reading</label>
98 | | | <label><input type="checkbox" name="hobbies" value="gaming" /> Gaming</label>
99 | | | <label><input type="checkbox" name="hobbies" value="sports" /> Sports<br></label>
100 | | | <!-- Others option -->
101 | | | <label>
102 | | | | <input type="checkbox" id="hobbyOther" name="hobbies" value="others" onclick="toggleOtherHobbyInput()" />
103 | | | | Others:
104 | | | </label>
105 | | | <input type="text" id="otherHobbyInput" name="otherHobby" placeholder="Please specify your hobby" />
106 | | </div>
107 | | <br>
108 |
109 | | <!-- Submit button -->
110 | | <button type="submit">Submit</button>
111 | </form>
112 </section>
113
114 <!-- Semantic footer -->
115 <footer id="footerSection">
116 | <p>&copy; 2025 CHE KU MURULHUDA. All rights reserved.</p>
117 | <address>Contact: <a href="mailto:s75871@ocean.umat.edu.my">s75871@ocean.umat.edu.my</a></address>
118 </footer>
119 </body>
120 </html>

```

2.2.External CSS

```
# styles.css > ...
1  /* General Style */
2  {
3      box-sizing: border-box; /* Apply border-box globally to simplify layout */
4  }
5
6  body {
7      margin: 0;
8      padding: 0;
9      font-family: 'Poppins', sans-serif;
10     background-color: #faf7ff;
11     color: #2a1040;
12     line-height: 1.6;
13 }
14
15 /* Header */
16 header {
17     background: linear-gradient(90deg, #7b2cbf, #9d4edd);
18     color: white;
19     text-align: center;
20     padding: 40px 15px;
21     border-radius: 0 0 20px 20px;
22 }
23
24 h1 {
25     font-size: 2em;
26     margin: 0;
27 }
28
29 /* Navigation (Link colors are internal) */
30 nav ul {
31     list-style: none;
32     margin: 0;
33     padding: 0;
34     background-color: #f3e8ff;
35     display: flex;
36     justify-content: center;
37     flex-wrap: wrap;
38     border-bottom: 3px solid #c77dff;
39 }
40
41 nav li {
42     margin: 5px;
43 }
44
45 /* Keep only layout & transition in external CSS */
46 nav a {
47     display: block;
48     padding: 12px 25px;
49     font-weight: 600;
50     transition: all 0.3s ease;
51     border-radius: 6px;
52 }
53
54 nav a:hover {
55     transform: scale(1.05);
56     background-color: #c77dff; /* Optional hover background */
57 }
58
59 /* Section General Style */
60 section {
61     background-color: white;
62     margin: 30px auto;
63     padding: 40px 25px;
64     max-width: 800px;
65     border-radius: 16px;
66     box-shadow: 0 4px 12px rgba(0, 0, 0, 0.12);
67 }
68
69 /* Video Section */
70 .media-section video {
71     width: 100%;
72     border-radius: 12px;
73     box-shadow: 0 4px 12px rgba(0, 0, 0, 0.12);
```

```

74 |     margin-top: 15px;
75 | }
76 |
77 | .media-section h2 {
78 |     text-align: center;
79 |     color: #6a1b9a; /* or keep your desired color */
80 |     margin-bottom: 20px;
81 | }
82 |
83 | /* Form Section */
84 | .form-section {
85 |     background-color: #f7eaff;
86 | }
87 |
88 | .form-section h2 {
89 |     text-align: center;
90 |     color: #4a148c;
91 |     margin-bottom: 20px;
92 | }
93 |
94 | /* Labels */
95 | label {
96 |     display: block;
97 |     margin: 10px 0 5px;
98 |     font-weight: 600;
99 |     color: #4a148c;
100 | }
101 |
102 | /* Inputs */
103 | input[type="text"],
104 | input[type="email"] {
105 |     width: 100%;
106 |     padding: 10px;
107 |     border-radius: 8px;
108 |     border: 1px solid #b57edc;
109 | }
110 |
111 | /* Radio & Checkbox Groups */
112 | .radio-group,
113 | .checkbox-group {
114 |     display: flex;
115 |     flex-wrap: wrap;
116 |     gap: 15px;
117 |     margin-bottom: 15px;
118 | }
119 |
120 | /* Submit Button */
121 | button {
122 |     background-color: #7b2cbf;
123 |     color: white;
124 |     border: none;
125 |     padding: 12px 20px;
126 |     border-radius: 8px;
127 |     cursor: pointer;
128 |     font-size: 16px;
129 |     width: 100%;
130 |     transition: background-color 0.3s ease;
131 | }
132 |
133 | button:hover {
134 |     background-color: #5a189a;
135 | }
136 |
137 | /* Footer */
138 | footer {
139 |     background: linear-gradient(90deg, #7b2cbf, #9d4edd);
140 |     color: white;
141 |     text-align: center;
142 |     padding: 20px;
143 |     border-radius: 20px 20px 0 0;
144 | }
145 |

```



```
146  ✓ footer a {  
147    |   color: #ffdeeb;  
148    |   text-decoration: none;  
149  }  
150  
151  ✓ footer a:hover {  
152    |   text-decoration: underline;  
153  }
```

2.3.Output

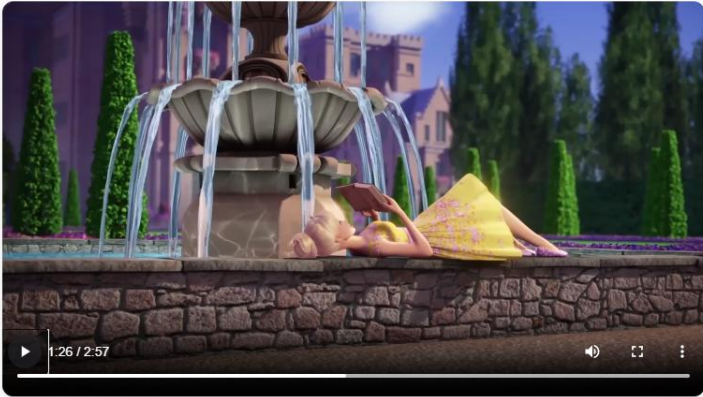
Lab 4 Responsive Webpage

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Welcome to My Responsive Lab 4 Webpage

[Video](#) [Contact Form](#) [Footer](#)

Welcome to Barbie World



Video caption: If I Had Magic Music Video _ Barbie and the Secret Door _ @Barbie.mp4.

Contact Us

Name:

Email:

Gender:

☐ Male ☐ Female ☐ Other

Favorite Hobbies:

☐ Reading ☐ Gaming ☐ Sports ☐ Others:

Please specify your hobby

Submit

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Contact: s75871@ocean.umt.edu.my