



FACULTY OF COMPUTER SCIENCE AND MATHEMATICS (FSKM)

CSF3133 WEB-BASED INTERFACE DESIGN (K4)

LAB 4

SEMESTER I 2025/2026

PREPARED BY:

CHE KU NURULHUDA BINTI CHE KU SAIFUL MUZAHAR (S75871)

LECTURER:

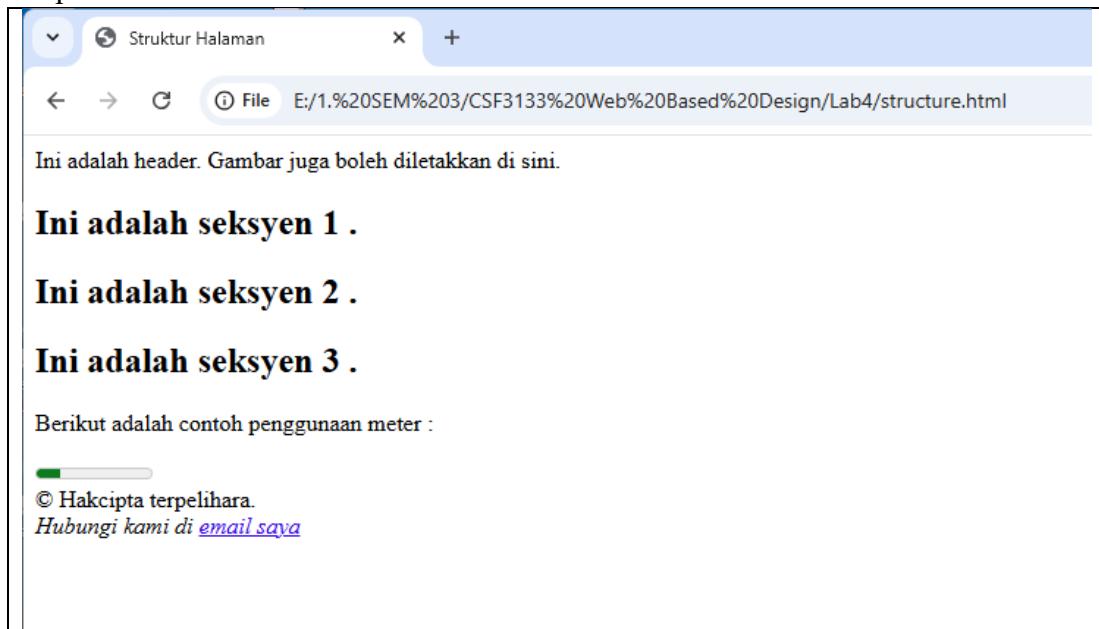
TS. DR. WAN NURAL JAWAHIR BINTI HJ WAN YUSSOF

LAB MODERATOR:

MRS. WAN FATIN FATIHAH BINTI YAHYA

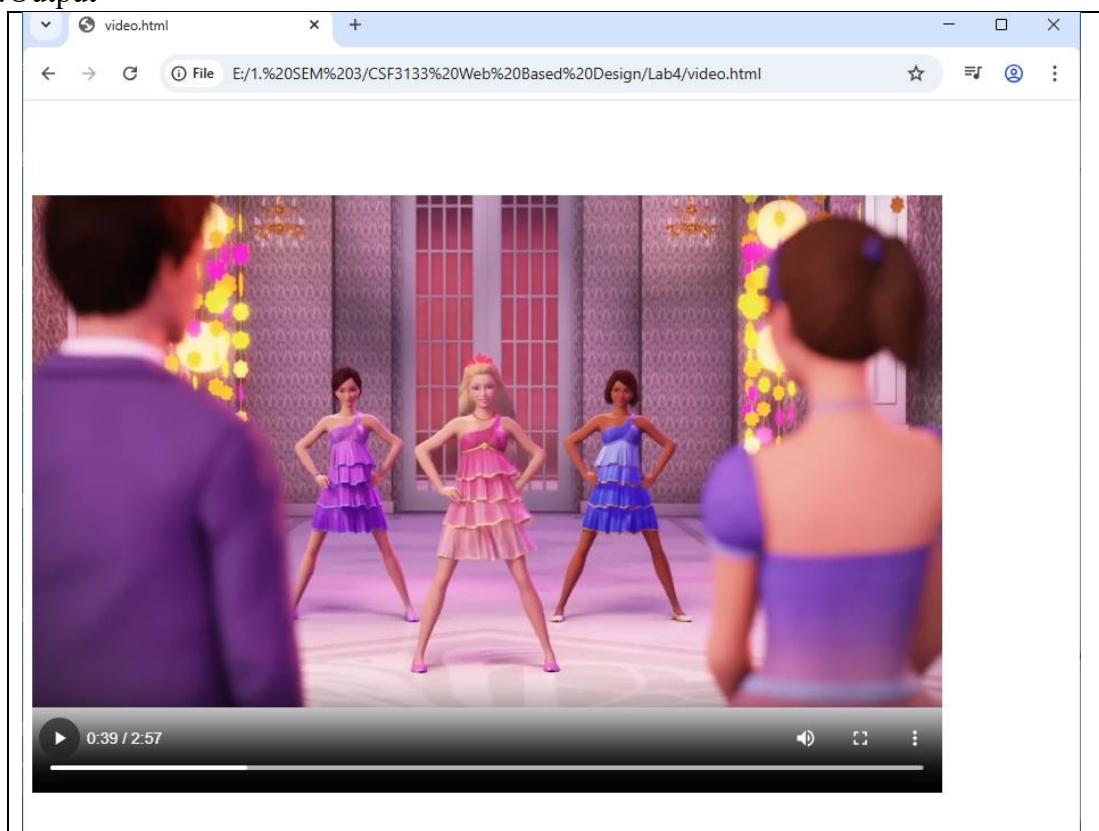
1. Activity 4.2 – Page Structure Elements

1.1. Output



2. Activity 4.3 – Insert Video into HTML5 Document

2.1. Output



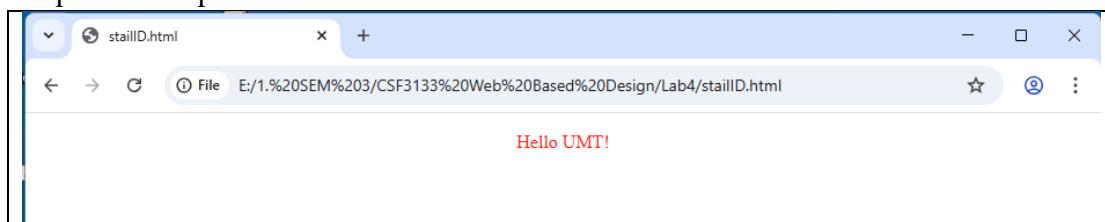
3. Activity 4.4 – Cascading Style Sheets

3.1. Output

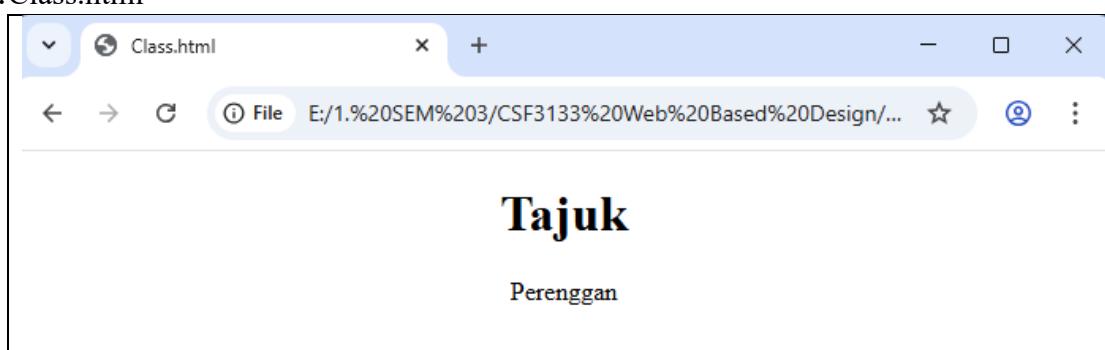


4. Activity 4.5 – Recognize ID and Selector Class

4.1. Output for Output for stailID.html

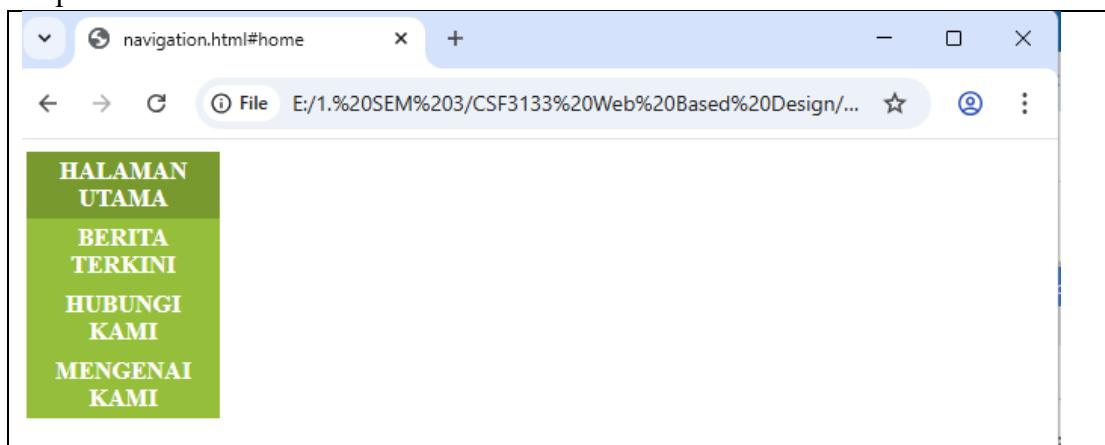


4.2. Class.html



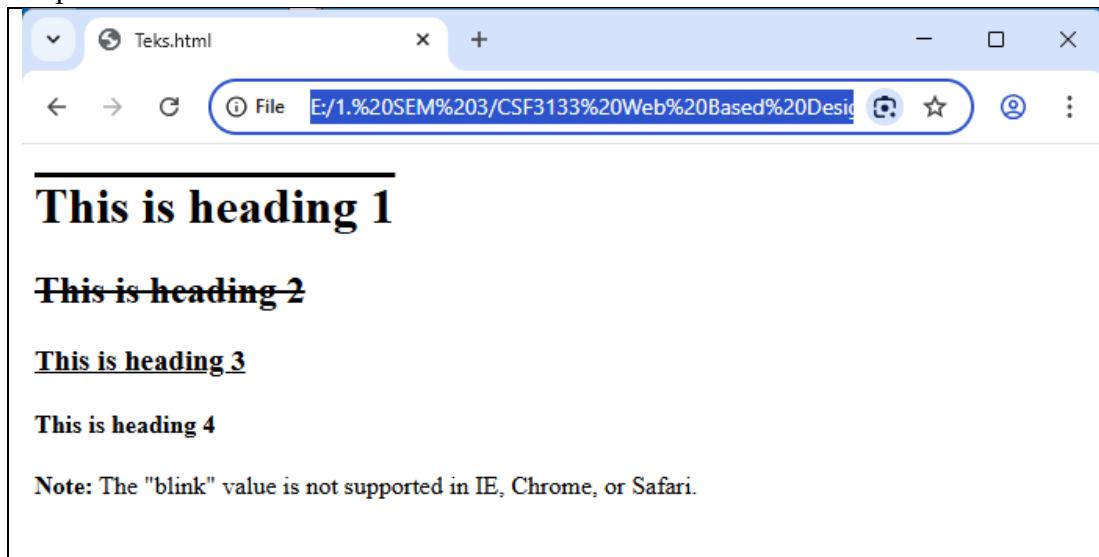
5. Activity 4.6 – Navigation Bar using CSS

5.1. Output



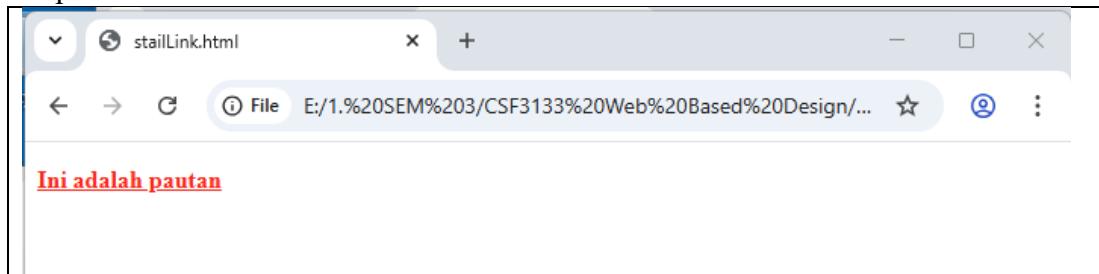
6. Activity 4.7 – Recognizing Text Decoration

6.1. Output

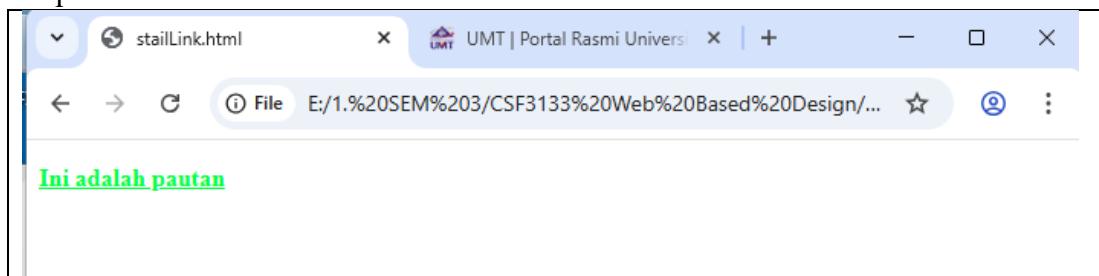


7. Activity 4.8 – Recognizing Styling Links

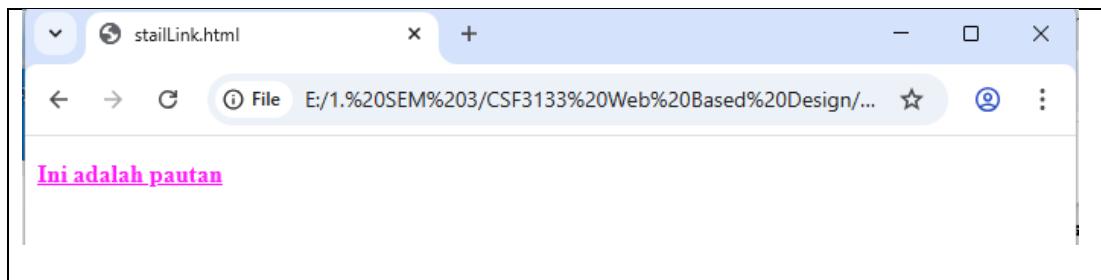
7.1. Output for unvisited link



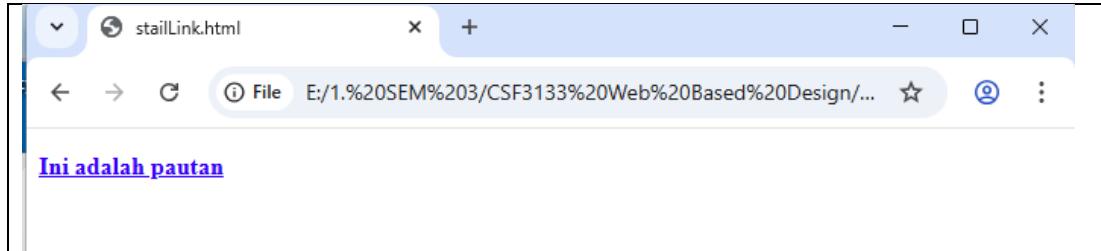
7.2. Output for visited link



7.3. Output for mouse over link



1.1.Output for selected link



2. Activity 4.9 - Lab Excercise

2.1.HTML

```
newlab4.html # 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 <body>
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     ● 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>© 2025 CHE KU NURULHUDA. All rights reserved.</p>
117        <address>Contact: <a href="mailto:s75871@ocean.umt.edu.my">s75871@ocean.umt.edu.my</a></address>
118    </footer>
119
120 </body>
121 </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

D:/1.%20SEM%203/CSF3133%20Web%20Based%20Desig...

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

© 2025 CHE KU NURULHUDA. All rights reserved.
Contact: s75871@ocean.umt.edu.my