Phạm Thùy Dung – 20521214

Assignment 1:

1. Write a JavaScript program to display the current day and time in the following format.

 Today is : Thursday.

 Current time is : 1 PM : 00 : 00

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Current Day and Time</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
        }
        div {
            text-align: center;
        }
    </style>
</head>
<body>
    <div>
        <p id="currentDay">Today is : </p>
        <p id="currentTime">Current time is : </p>
    </div>

    <script>
        function updateDateTime() {
            const days = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];
            const currentDate = new Date();

            const day = days[currentDate.getDay()];
            const hours = currentDate.getHours();
            const minutes = currentDate.getMinutes();
            const seconds = currentDate.getSeconds();

            // Convert 24 hour format to 12 hour format and set AM or PM
            let period = "AM";
            let hour12Format = hours;
            if(hours > 12) {
                hour12Format = hours - 12;
                period = "PM";
            }
            if(hours === 0) {
                hour12Format = 12;
            }
            if(hours === 12) {
                period = "PM";
            }

            document.getElementById("currentDay").textContent = `Today is : ${day}.`;
            document.getElementById("currentTime").textContent = `Current time is : 
            ${hour12Format} ${period} : 
            ${String(minutes).padStart(2, '0')} : 
            ${String(seconds).padStart(2, '0')}`;
        }

        // Update time immediately and then every second
        updateDateTime();
        setInterval(updateDateTime, 1000);
    </script>
</body>
</html>
```

Output:

Today is : Wednesday.

Current time is : 11 PM : 00 : 39

2. Write a JavaScript program to copy a string to the clipboard.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Copy to Clipboard</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            flex-direction: column;
        }
        button {
            margin-top: 20px;
            padding: 10px 20px;
        }
    </style>
</head>
<body>
    <input type="text" id="copyText" value="This is the text to be copied.">
    <button onclick="copyToClipboard()">Copy to Clipboard</button>

    <script>
        function copyToClipboard() {
            const textArea = document.getElementById('copyText');

            // Select the content of the text area
            textArea.select();
            textArea.setSelectionRange(0, 99999); // For mobile devices

            // Use the copy command
            document.execCommand('copy');

            alert("Text copied to clipboard!");
        }
    </script>
</body>
</html>
```

Output:

127.0.0.1:5500 says

Text copied to clipboard!

OK

Meo meo di hoc ve

Copy to Clipboard
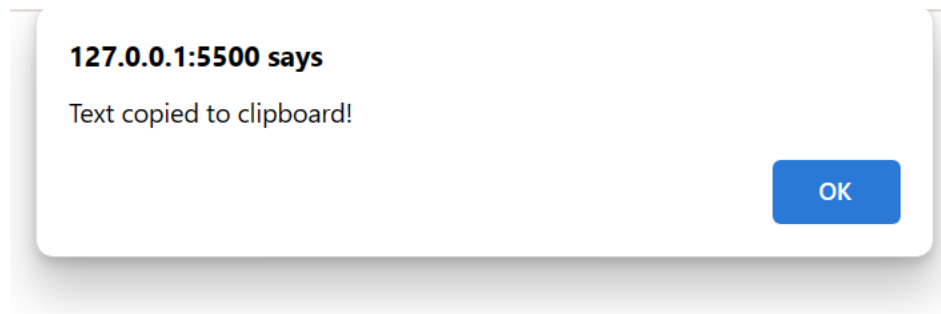
3. Write a JavaScript program to parse an HTTP Cookie header string and return an object of all cookie name-value pairs.

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Parse Cookie Header</title>
7       <style>
8           body {
9               font-family: Arial, sans-serif;
10              display: flex;
11              justify-content: center;
12              align-items: center;
13              height: 100vh;
14              flex-direction: column;
15          }
16          button, textarea {
17              margin-top: 20px;
18          }
19      </style>
20  </head>
21  <body>
22      <textarea id="cookieInput" rows="4" cols="50" placeholder="Enter the HTTP Cookie header string here."></textarea>
23      <button onclick="parseCookies()">Parse Cookies</button>
24      <pre id="output"></pre>
25
26      <script>
27          function parseCookies() {
28              const input = document.getElementById('cookieInput').value;
29
30              const cookies = input.split('; ').reduce((acc, cookie) => {
31                  const [name, value] = cookie.split('=');
32                  acc[name] = value;
33                  return acc;
34              }, {});
35
36              const output = document.getElementById('output');
37              output.textContent = JSON.stringify(cookies, null, 4);
38          }
39      </script>
40  </body>
41  </html>
42
```

Output:

```
Name=Value; Path=/; Expires=Wed, 21 Oct 2025
07:28:00 GMT; Secure; HttpOnly
```

Parse Cookies

```
{
    "Name": "Value",
    "Path": "/",
    "Expires": "Wed, 21 Oct 2025 07:28:00 GMT"
}
```

4. Write a JavaScript program to write a JSON object to a file.

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Write JSON to File</title>
7       <style>
8           body {
9               font-family: Arial, sans-serif;
10              display: flex;
11              justify-content: center;
12              align-items: center;
13              height: 100vh;
14              flex-direction: column;
15          }
16          button, textarea {
17              margin-top: 20px;
18          }
19      </style>
20  </head>
21  <body>
22      <textarea id="jsonInput" rows="10" cols="50" placeholder="Enter JSON here."></textarea>
23      <button onclick="downloadJSON()">Download JSON</button>
24
25      <script>
26          function downloadJSON() {
27              const jsonText = document.getElementById('jsonInput').value;
28
29              try {
30                  JSON.parse(jsonText); // Attempt to parse to ensure it's valid JSON
31
32                  const blob = new Blob([jsonText], { type: 'application/json' });
33                  const url = URL.createObjectURL(blob);
34
35                  const a = document.createElement('a');
36                  a.style.display = 'none';
37                  a.href = url;
38                  a.download = 'data.json';
39
40                  document.body.appendChild(a);
41                  a.click();
42                  document.body.removeChild(a);
43              } catch (e) {
44                  alert("Invalid JSON");
45              }
46          }
47      </script>
48  </body>
49  </html>
50
```

Output:

```json
{
    "firstName": "John",
    "lastName": "Doe",
    "age": 30,
    "address": {
        "street": "123 Main St",
        "city": "Springfield",
        "state": "IL",
        "postalCode": "12345"
    },
    "phoneNumbers": [
        {
            "type": "home",
            "number": "555-555-5555"
        },
        {
            "type": "work",
            "number": "555-555-5556"
        }
    ],
    "isEmployee": false
}
```

🤝 2

Download JSON

Result:

Downloads

data (1).json
Open file
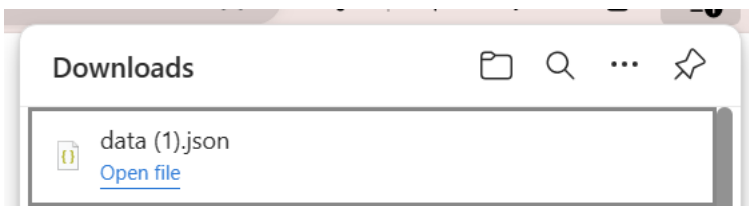
Assignment 2:

1. Use javascript to create a submit button. After that changing the text on it.

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Change Button Text</title>
7   </head>
8   <body>
9       <button id="submitButton" onclick="changeText()">Submit</button>
10
11      <script>
12          function changeText() {
13              const button = document.getElementById('submitButton');
14              button.textContent = "Text Changed!";
15          }
16      </script>
17  </body>
18  </html>
19
```

Output:

Submit

Text Changed!

2. Use javascript to create a form. Next, write a JavaScript function to get the value of submit button that you create on Exercise 1.

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Retrieve Button Value</title>
7        <style>
8            form {
9                display: flex;
10               flex-direction: column;
11               max-width: 300px;
12               margin: 50px auto;
13           }
14           input[type="text"], button {
15               margin-bottom: 20px;
16           }
17       </style>
18   </head>
19   <body>
20       <form id="sampleForm">
21           <input type="text" placeholder="Enter some data" />
22           <button id="submitButton" type="button" value="Submit" onclick="retrieveValue()">Submit</button>
23       </form>
24
25       <script>
26           function retrieveValue() {
27               const button = document.getElementById('submitButton');
28               alert("Button value: " + button.value);
29           }
30       </script>
31   </body>
32   </html>
33
```

Output:

med

Submit

127.0.0.1:5500 says

Button value: Submit

OK
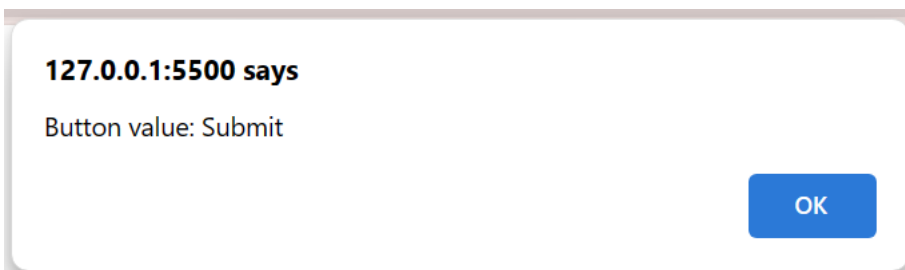
2. Write javascript code to create a forn to calculate age of other people.

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Calculate Age</title>
7       <style>
8           form {
9               display: flex;
10              flex-direction: column;
11              max-width: 300px;
12              margin: 50px auto;
13              padding: 20px;
14              border: 1px solid #ddd;
15              border-radius: 5px;
16          }
17          label, input, button {
18              margin-bottom: 10px;
19          }
20      </style>
21  </head>
22  <body>
23      <form id="ageForm" onsubmit="calculateAge(event)">
24          <label for="birthYear">Enter Birth Year:</label>
25          <input type="number" id="birthYear" required>
26          <button type="submit">Calculate Age</button>
27          <p id="result"></p>
28      </form>
29
30      <script>
31          function calculateAge(event) {
32              event.preventDefault(); // Prevent the form from submitting
33
34              const currentYear = new Date().getFullYear();
35              const birthYear = parseInt(document.getElementById('birthYear').value);
36
37              if (!isNaN(birthYear) && birthYear > 0 && birthYear <= currentYear) {
38                  const age = currentYear - birthYear;
39                  document.getElementById('result').textContent = `The age is: ${age} years.`;
40              } else {
41                  document.getElementById('result').textContent = "Please enter a valid birth year.";
42              }
43          }
44      </script>
45  </body>
46  </html>
47
```

Output:

Enter Birth Year:

2002

Calculate Age

The age is: 21 years.

4. Write a JavaScript application that, when a user hovers over a certain link, highlights the bold words of the following text.

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Highlight Bold Words</title>
7       <style>
8           /* This style is applied when bold words are to be highlighted */
9           b.highlighted {
10              background-color: yellow;
11          }
12
13          /* Hover effect for the link */
14          a:hover {
15              text-decoration: underline;
16          }
17      </style>
18  </head>
19  <body>
20
21  <p>
22      This is a <b>sample</b> text with some <b>bold</b> words that will be highlighted when hovering over the link below.
23  </p>
24  <a id="highlightLink" href="#">Hover over me to highlight the bold words</a>
25
26  <script>
27      const link = document.getElementById('highlightLink');
28
29      link.addEventListener('mouseover', function() {
30          const boldWords = document.querySelectorAll('b');
31          boldWords.forEach(word => {
32              word.classList.add('highlighted');
33          });
34      });
35
36      link.addEventListener('mouseout', function() {
37          const boldWords = document.querySelectorAll('b.highlighted');
38          boldWords.forEach(word => {
39              word.classList.remove('highlighted');
40          });
41      });
42  </script>
43
44  </body>
45  </html>
46
```

Output:

This is a **sample** text with some **bold** words that will be highlighted when hovering over the link below.

Hover over me to highlight the bold words

 5. Create a Javascript application to get the window's width and height (any time the window is resized).

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Window Dimensions on Resize</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            flex-direction: column;
        }
    </style>
</head>
<body>

<h1>Window Dimensions</h1>
<p id="dimensions">Width: ???, Height: ???</p>

<script>
    function displayDimensions() {
        const width = window.innerWidth;
        const height = window.innerHeight;
        const dimensionsElem = document.getElementById('dimensions');
        dimensionsElem.textContent = `Width: ${width}px, Height: ${height}px`;
    }

    // Display dimensions initially
    displayDimensions();

    // Update display on window resize
    window.addEventListener('resize', displayDimensions);
</script>

</body>
</html>
```

Output:

Window Dimensions

Width: 1272px, Height: 678px

Window Dimensions

Width: 630px, Height: 668px

 Hint: Find out more about Document.querySelector, Document.createElement,

Document.getElementByXX and other functions related to Document.

 The Document Object Model (DOM) represents HTML in the browser after it has been

rendered. The DOM API is how JavaScript is able to change content on a page.

Homework CV

Javascript – Homework

- Do you remember about your CV? Please add some javascript code to make it great. For example, you can add menu on the left of this website. When people click on each part, your website will direct them here.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sophia's CV</title>
    <link rel="stylesheet" href="cv.css">
</head>
<body>
    <div class="cv-container">

        <nav>
            <a href="#profile">Profile</a>
            <a href="#experiences">experiences</a>
            <a href="#abilities">abilities</a>
        </nav>

        <!-- Profile section -->
        <section id="profile">
            <h1 style="text-align: center;">Profile</h1>
            <p style="text-align: center;">I am a student</p>

            <!--Details section-->
            <div class="profile-content">

                <!-- About me -->
                <div class="about-me">
                    <h3>About me</h3>
                    <p>I love English and IT, and in the future, I want to become a Business Analyst (BA). </p>
                </div>

                <!-- Image -->
                <img src="cat.jpg" alt="Sophia's Picture" class="profile-pic">

                <!-- Detail Information-->
                <div class="details">
                    <h3>Details</h3>
                    <div class="detail-item"><strong>Name:</strong>Pham Thuy Dung</div>
                    <div class="detail-item"><strong>Age:</strong> 21</div>
                    <div class="detail-item"><strong>Location:</strong> HN, Vietnam</div>
                </div>

            </div>
        </section>

        <!-- Experiences section -->
        <section id="experiences">
            <h1>experiences</h1>
            <div class="Education-content">

                <!--Education -->
                <div class="education">
                    <h3>Education</h3>
                    <p>My major is Information Systems, and in Uni, I learned a lot of skill about IT, such as:
                        Java, C++, ... And I also learned about Business Analysis, and I want to be a BA in the future.</p>
                </div>

                <!-- Work experiences -->
                <div class="work">
                    <h3>work experiences</h3>
                    <p>I do many project in university, there are some skill I learned from that
                        team working, negotiating, and persuading, and so on.</p>
                </div>
            </div>
        </section>

        <!--Abilities section-->
        <section id="abilities">
            <h1>Abilities</h1>
            <div class="abilities-container">
                <!-- Skills -->
                <div class="skills">
                    <h2>Skills</h2>
                    <div class="skills-heading">Skills</div>
                    <div class="columns-wrapper">
                        <div class="column1">
                            <!-- HTML -->
                            <div class="item1">
                                <span class="name">HTML/CSS</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="html5" name="htmlProficiency" value="5" /><label for="html5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="html4" name="htmlProficiency" value="4" /><label for="html4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="html3" name="htmlProficiency" value="3" /><label for="html3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="html2" name="htmlProficiency" value="2" /><label for="html2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="html1" name="htmlProficiency" value="1" /><label for="html1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!-- SQL -->
                            <div class="item2">
                                <span class="name">SQL</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="sql5" name="sqlProficiency" value="5" /><label for="sql5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="sql4" name="sqlProficiency" value="4" /><label for="sql4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="sql3" name="sqlProficiency" value="3" /><label for="sql3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="sql2" name="sqlProficiency" value="2" /><label for="sql2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="sql1" name="sqlProficiency" value="1" /><label for="sql1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!-- JQuery -->
                            <div class="item3">
                                <span class="name">JQuery</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="jquery5" name="jqueryProficiency" value="5" /><label for="jquery5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="jquery4" name="jqueryProficiency" value="4" /><label for="jquery4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="jquery3" name="jqueryProficiency" value="3" /><label for="jquery3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="jquery2" name="jqueryProficiency" value="2" /><label for="jquery2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="jquery1" name="jqueryProficiency" value="1" /><label for="jquery1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!-- JavaScript -->
                            <div class="item4">
                                <span class="name">Javascript</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="js5" name="jsProficiency" value="5" /><label for="js5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="js4" name="jsProficiency" value="4" /><label for="js4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="js3" name="jsProficiency" value="3" /><label for="js3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="js2" name="jsProficiency" value="2" /><label for="js2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="js1" name="jsProficiency" value="1" /><label for="js1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>
                        </div>

                        <div class="column2">
                            <!--Object Oriented programming-->
                            <div class="item5">
                                <span class="name">Object Oriented programming</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="oop5" name="oopProficiency" value="5" /><label for="oop5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="oop4" name="oopProficiency" value="4" /><label for="oop4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="oop3" name="oopProficiency" value="3" /><label for="oop3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="oop2" name="oopProficiency" value="2" /><label for="oop2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="oop1" name="oopProficiency" value="1" /><label for="oop1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!--SEO-->
                            <div class="item6">
                                <span class="name">SEO</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="seo5" name="seoProficiency" value="5" /><label for="seo5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="seo4" name="seoProficiency" value="4" /><label for="seo4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="seo3" name="seoProficiency" value="3" /><label for="seo3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="seo2" name="seoProficiency" value="2" /><label for="seo2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="seo1" name="seoProficiency" value="1" /><label for="seo1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!--REACT-->
                            <div class="item7">
                                <span class="name">REACT</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="react5" name="reactProficiency" value="5" /><label for="react5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="react4" name="reactProficiency" value="4" /><label for="react4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="react3" name="reactProficiency" value="3" /><label for="react3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="react2" name="reactProficiency" value="2" /><label for="react2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="react1" name="reactProficiency" value="1" /><label for="react1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>
                        </div>
                    </div>
                </div>

                <div class="languages">
                    <h3 class="languages-heading">Languages</h3>
                    <div class="columns-wrapper">
                        <div class="column3">
                            <!--Vietnamese-->
                            <div class="item8">
                                <span class="name">Vietnamese</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="vietnamese5" name="vietnameseProficiency" value="5" /><label for="vietnamese5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="vietnamese4" name="vietnameseProficiency" value="4" /><label for="vietnamese4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="vietnamese3" name="vietnameseProficiency" value="3" /><label for="vietnamese3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="vietnamese2" name="vietnameseProficiency" value="2" /><label for="vietnamese2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="vietnamese1" name="vietnameseProficiency" value="1" /><label for="vietnamese1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!--English-->
                            <div class="item9">
                                <span class="name">English</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="english5" name="englishProficiency" value="5" /><label for="english5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="english4" name="englishProficiency" value="4" /><label for="english4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="english3" name="englishProficiency" value="3" /><label for="english3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="english2" name="englishProficiency" value="2" /><label for="english2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="english1" name="englishProficiency" value="1" /><label for="english1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>
                        </div>

                        <div class="column4">
                            <!-- Cat -->
                            <div class="item10">
                                <span class="name">cat</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="cat5" name="catProficiency" value="5" /><label for="cat5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="cat4" name="catProficiency" value="4" /><label for="cat4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="cat3" name="catProficiency" value="3" /><label for="cat3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="cat2" name="catProficiency" value="2" /><label for="cat2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="cat1" name="catProficiency" value="1" /><label for="cat1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>

                            <!-- Dog -->
                            <div class="item11">
                                <span class="name">dog</span>
                                <span class="stars">
                                    <div class="proficiency">
                                        <input type="radio" id="dog5" name="dogProficiency" value="5" /><label for="dog5" title="5 rectangles" class="rectangle"></label>
                                        <input type="radio" id="dog4" name="dogProficiency" value="4" /><label for="dog4" title="4 rectangles" class="rectangle"></label>
                                        <input type="radio" id="dog3" name="dogProficiency" value="3" /><label for="dog3" title="3 rectangles" class="rectangle"></label>
                                        <input type="radio" id="dog2" name="dogProficiency" value="2" /><label for="dog2" title="2 rectangles" class="rectangle"></label>
                                        <input type="radio" id="dog1" name="dogProficiency" value="1" /><label for="dog1" title="1 rectangle" class="rectangle"></label>
                                    </div>
                                </span>
                            </div>
                        </div>
                    </div>
                </div>
                <div class="github">
                    <a href="https://github.com/" target="_blank">
                        <button>See project on GitHub</button>
                    </a>
                </div>
            </div>
        </section>
    </div>
    <script src="cv.js"></script>
</body>
</html>
```
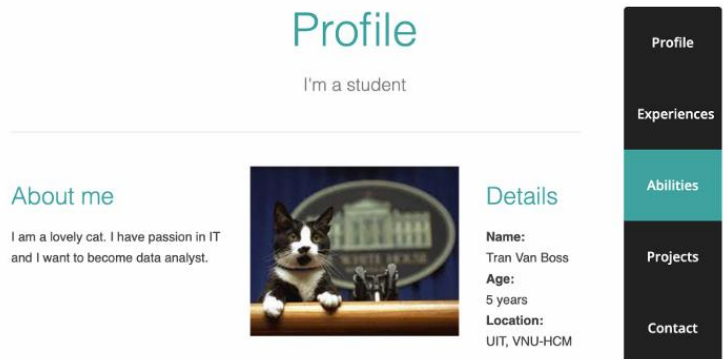
Detail in github

Output:

Javascript – Homework 2.1 (Option 1)

- Develop a website similar to this and add sound to each button.

Input:

```
1   <!DOCTYPE html>
2   <html Lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Drum Kit</title>
7       <link rel="stylesheet" href="2-1.css">
8   </head>
9   <body>
10      <h1>Drum Kit</h1>
11      <div class="drum-buttons">
12          <button class="drum" data-key="a">w</button>
13          <button class="drum" data-key="a">a</button>
14          <button class="drum" data-key="s">s</button>
15          <button class="drum" data-key="d">d</button>
16          <button class="drum" data-key="j">j</button>
17          <button class="drum" data-key="k">k</button>
18          <button class="drum" data-key="l">l</button>
19      </div>
20      <script src="2-1.js"></script>
21  </body>
22  </html>
23
```

Output:

Drum Kit

w	a	s	d	j	k	l

Javascript – Homework 2.2

- Access to this link and do exercise 3:

  https://drive.google.com/file/d/1hr4hTelyL6oGvwE6hIdQXIwDNZZ0UO qO/view?usp=sharing

```
1   <!DOCTYPE html>
2   <html Lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>Multi Filter Function</title>
8       <link rel="stylesheet" href="2-2.css">
9   </head>
10  <body>
11      <div id="results"></div>
12      <script src="2-2.js"></script>
13  </body>
14  </html>
15
```

Output:

Javascript – Homework 2.3

- Access to this link and do exercise
- https://drive.google.com/file/d/12ej5SRd873oFS4TJ8csu4WkusNyU-DXX/view?usp=sharing

```html
<html lang="vi">
<head>
    <meta charset="UTF-8">
    <title>Đăng nhập</title>
    <link rel="stylesheet" href="2-3.css">
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
    <script type="text/javascript" src="2-3.js" async></script>
</head>
<body>
    <div class="login-page" id="login">
        <h1>Đăng Nhập Tài Khoản</h1>
        <div class="input-box">
            <i class="fa fa-user"></i>
            <input type="text" placeholder="Họ và Tên" id="user">
        </div>
        <div class="input-box">
            <i class="fa fa-key"></i>
            <input type="password" placeholder="Mật khẩu" id="pwd">
            <span class="eye" id="eye-icon">
                <i class="fa fa-eye" id="hide-eye"></i>
                <i class="fa fa-eye-slash" id="hide-eye-slash"></i>
            </span>
        </div>
        <button type="button" class="login-button" onclick="LoginClick()">Đăng nhập</button>
    </div>
    <div class="login-page" id="Hello">
        <h3>Xin chào</h3>
        <h1 id="user-name">Tên Đăng Nhập</h1>
        <p><a href="#" onclick="LogoutClick()">Đăng xuất?</a></p>
    </div>
</body>
</html>
```

Output:

Github link: https://github.com/amenosakura/lab2-20521214