**Lab Activity 4.1: Tailwind, SASS, Basic JavaScript and Website Evaluation**

For this lab session you will continue adding advanced CSS elements including Tailwind framework, with CSS preprocessor and with basic JavaScript.

**Part 0:** We will continue from lab 3.1. Keep the folder named Christmas\_Store\_lab4\_yourLastName.

1. Form a group of two people
2. Write your partner’s full name
3. Submission will be individual. Write your partner's full name in the canvas comment box too.
4. You should periodically verify there are no errors as you complete the rest of the lab assignment while working on the following tasks.
   1. <https://validator.w3.org/#validate_by_input>
   2. <https://jigsaw.w3.org/css-validator/>
5. Launch VS Code on your machine and open your files.
6. When you modify the files, make sure you reload it in your browser to see your changes.

**Part 1: Evaluating Website using Web Design Guidelines**

In this part of the assignment, you are going to evaluate two websites using the resource for web design guidelines that we discussed today. For each of the websites, you need to fill out a table. The left most column of the table has the criteria for evaluating the websites. You need to fill out the other three columns as per the column headings. Please discuss with your partners and submit the same evaluation.

**URL of the first website you are evaluating:** [https://blinkee.com](https://blinkee.com/)

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| --- | --- | --- | --- |
| **Criteria** | Explain your observation/s on how the given website meets/does not meets the criterion? | Rate with a scale of 1 through 5 (1- needs major improvement, 2- needs some improvement, 3- fine/can be improved, 4- good/ can be polished, 5- very good) | Specific suggestion/s for improvements or meeting the criterion |
| Effective home page including, clear purpose and name of the website | Yes, the website has an effective home page. It has a clear purpose and presents the website's content in a visually appealing and easy-to-understand manner. The home page contains a large header with the website's name and a tagline that describes its purpose. | 5 | No major suggestions for improvement. However, they could consider adding more visual cues, such as icons or graphics, to help users quickly understand what the website offers. |
| Adequate whitespace in each page | The website has a reasonable amount of whitespace in each page, which helps to create a clean and uncluttered look. The whitespace is used effectively to separate different sections of the page and to highlight important information. Overall, the website's use of whitespace is consistent and visually appealing. | 4 | Although the website's use of whitespace is generally good, there are a few areas where it could be improved. For example, the product pages could benefit from more whitespace between the product images and the product descriptions. |
| Page length and width | The website's page length and width are generally appropriate. The pages are not overly long, and the content is well-organized, making it easy for users to find what they're looking for. The pages are also optimized for different screen sizes, ensuring that the content is easy to read and navigate on both desktop and mobile devices. | 5 | No major suggestions for improvement. |
| Images of the webpages | In this website, we use images only to show a product. The images are high definition quality ones. However, they can be a little smaller too | 4 | They can be little smaller. |
| Color contrast and color style consistent across the webpages | Yes, the website has consistent color contrast and style across its webpages. The website uses a limited color palette of blue, white, and black, with occasional pops of brighter colors to highlight important information. The colors are used consistently throughout the website, and the contrast between the background and text is high enough to ensure that the text is easily readable. | 5 | The website could consider using more descriptive and consistent color names in its CSS and HTML code. |
| Follow web writing guidelines including consistency of text formatting across pages | Yes, the website appears to follow web writing guidelines, including consistent text formatting across pages. The text is easy to read, with appropriate font sizes and styles used throughout the website. Headings and subheadings are used effectively to break up the content and make it easier to scan. | 5 | Could consider adding more white space around paragraphs to improve readability. |
| Navigation system including functionality of the links and their locations | The navigation menu is prominently displayed at the top of each page, making it easy for users to find the pages they're looking for. | 5 | could consider adding more visual cues to the navigation menu, such as icons or graphics, to make it even easier for users to find what they're looking for. |
| Relevance of the information, and Organization/layout of each page | Each page is focused on a specific topic, and the information is presented in a logical and organized manner. The website also provides helpful links and resources for users who need additional information. | 5 | None |
| Alignment and proximity of items | The website uses a grid-based layout to ensure that all elements are properly aligned, and the spacing between elements is consistent and well-proportioned. | 5 | Sometimes in the home page, I found some of the items cards are not properly aligned. They could be aligned properly. |
| User engagement | The website is designed to be visually appealing and easy to navigate, with clear calls-to-action | 4 | could consider adding more interactive elements, such as quizzes, polls, or surveys, to encourage users to interact with the website more actively. |
| Usability | Yes, the website is generally usable, with clear and concise content, effective navigation, and a visually appealing design. | 5 | could consider optimizing the website for mobile devices, as some pages may be difficult to use on smaller screens. |
| Works on different browsers like Google Chrome, Mozilla, Safari | Yes, the website appears to work effectively on different web browsers, including Google Chrome, Mozilla Firefox, and Safari. | 5 | None |
| Anything you want to add \_\_\_\_\_\_\_\_\_\_ | None |  |  |

**URL of the second website you are evaluating:** [www.apple.com](http://www.apple.com)

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| --- | --- | --- | --- |
| **Criteria** | Explain your observation/s on how the given website meets/does not meets the criterion? | Rate with a scale of 1 through 5 (1- needs major improvement, 2- needs some improvement, 3- fine/can be improved, 4- good/ can be polished, 5- very good) | Specific suggestion/s for improvements or meeting the criterion |
| Effective home page including, clear purpose and name of the website | Apple.com has an effective home page that clearly states the purpose of the website, which is to showcase Apple's products and services. | 5 | None |
| Adequate whitespace in each page | Apple.com makes effective use of whitespace to create a clean and visually appealing design. The website uses whitespace to separate different sections of content, making it easier for users to read and navigate the website. | 5 | None |
| Page length and width | Apple.com uses a responsive design that adapts to different screen sizes, ensuring that the website is accessible and easy to use on a wide range of devices. | 5 | None |
| Images of the webpages | Apple.com uses high-quality images to showcase its products and services, making the website visually engaging and appealing. | 5 | None |
| Color contrast and color style consistent across the webpages | Apple.com uses a consistent color scheme and design across different pages, making the website visually appealing and easy to use. | 5 | None |
| Follow web writing guidelines including consistency of text formatting across pages | Apple.com uses clear and concise writing that is easy to read and understand. The website also uses a consistent text formatting across different pages, making it easy for users to read and navigate the website. | 5 | None |
| Navigation system including functionality of the links and their locations | Apple.com has a well-designed navigation system that is easy to use and navigate. The website uses a consistent layout and design across different pages, making it easy for users to find the information they need. | 5 | None |
| Relevance of the information, and Organization/layout of each page | Apple.com presents relevant and useful information in a clear and concise manner, making it easy for users to find the information they need. | 5 | None |
| Alignment and proximity of items | Apple.com has proper alignment and proximity of items, with a well-designed layout that is visually engaging and easy to use. | 5 | None |
| User engagement | The website is designed to be visually appealing and easy to navigate, with clear calls-to-action and helpful resources that encourage users to explore the website | 5 | None |
| Usability | Apple.com is highly usable, with a well-designed layout, clear navigation, and easy-to-read content. The website is optimized for both desktop and mobile devices, ensuring that users can access the website from a wide range of devices. | 5 | None |
| Works on different browsers like Google Chrome, Mozilla, Safari | Apple.com is optimized to work on a wide range of browsers, including Google Chrome, Mozilla Firefox, and Safari. | 5 | None |
| Anything you want to add \_\_\_\_\_\_\_\_\_\_ | None |  |  |

**Part 2: Modify lab 3.1 with Tailwind.  Redo the following tasks using Tailwind framework without errors to receive credit.**

* + - 1. **Use Tailwind CSS for styling**
* Use classes of Tailwind CSS for styling
* Just write class for each element and write their class name according to your requirement by following the official website of tailwind CSS
* For example, if you want to change the background color to blue a paragraph then write <p class=’bg-blue-200’>This is paragraph</p>
* Tailwind CSS has classes for every changes you can do with CSS, just follow the Tailwind CSS official website

1. **Now setup a Common theme across the pages**
   1. Maintain a box model for all the pages
      1. For example, the example shown in the class lecture today
   2. Tasks for all the pages- keep the same nav, banner, img and footer elements for every html page to maintain a consistency for every page
   3. Nav element design:
      1. All the list items mean ‘the links of the navbar will be’ on the same horizon of the page
      2. display:flex is applicable to the parent element means the ul of li items
      3. margin and padding should be applicable for the list item to have good presentation.
      4. Apply inline nav
         1. Use hover, visited, active css for the navigations
      5. Add margin and padding for each of the nav element
   4. Footer design:
      1. Center the footer using text-center class from Tailwind
      2. Keep the footer element in every html page to keep consistency
   5. Banner:
      1. Adjust image width, height to improve its presentation
      2. Keep the same banner in every html page to maintain consistency
2. **Tasks for individual pages**
   1. index.html
      1. Create a card for every Christmas product and place all the products like below using display: grid in parent element grid-column-template: 1fr 1fr 1fr to create 3 columns of same sizes as picture below

Graphical user interface, website

Description automatically generated

* + 1. navbar, banner will be on the top and footer will be on the bottom
    2. fix the position of the banner to top
    3. fix the position of the navbar to relative
    4. fix the position of the footer to bottom
    5. make the main image at center
  1. contact.html
     1. Add a background image on the form using “z-index”. Use a lighter color image
     2. Add a different font families for the contact.html page
     3. Use the ::first-letter psedu element for each label of the form
     4. Style the form previously created
        + 1. change the color of the input fields while it’s focused

see the example below

input[type=text]:focus {

background-color: lightblue;}

iii. navbar, banner will be on the top and footer will be on the botto

* 1. deals.html
     1. Add a background color to the alternating rows of the table
     2. Add a darker background color and a lighter font color to the table header
     3. Make the table header’s font bold
     4. Add border to each row and column
     5. Make card for each deal and create a span element to write the discount like below

Graphical user interface, application

Description automatically generated

* + 1. Use display:grid and grid-template-columns in the parent element like index.html
    2. Each card will be transformed to 1.25x from its original size if user hover on it
    3. Add another form of animation

**Part 3: Use SASS preprocessor**

* Install SASS following the instructions here
  + <https://sass-lang.com/install>
* Follow the instructions here
  + <https://www.geeksforgeeks.org/css-preprocessor-sass/>
* Show 3 example usage for the following commands-
  + @mixin and @include
  + SASS nesting
  + @import and @extend rules

**Part 4: Basic JavaScript**

* Show an alert after successful form submission for the contact.html page
  + Use .getElementById to capture the button from DOM
  + Use Tailwind styling to style the alert box

**Part 5: Turn in your activity**

There will be two file submissions

* 1. Each partner needs to submit this word file with your discussion on the website design
  2. Generate a zipped file of the solution folder