# Midlands Technical College

**CEWDV-574 - HTML and CSS**

**Final Project**

## Guidelines for HTML and CSS Final Project

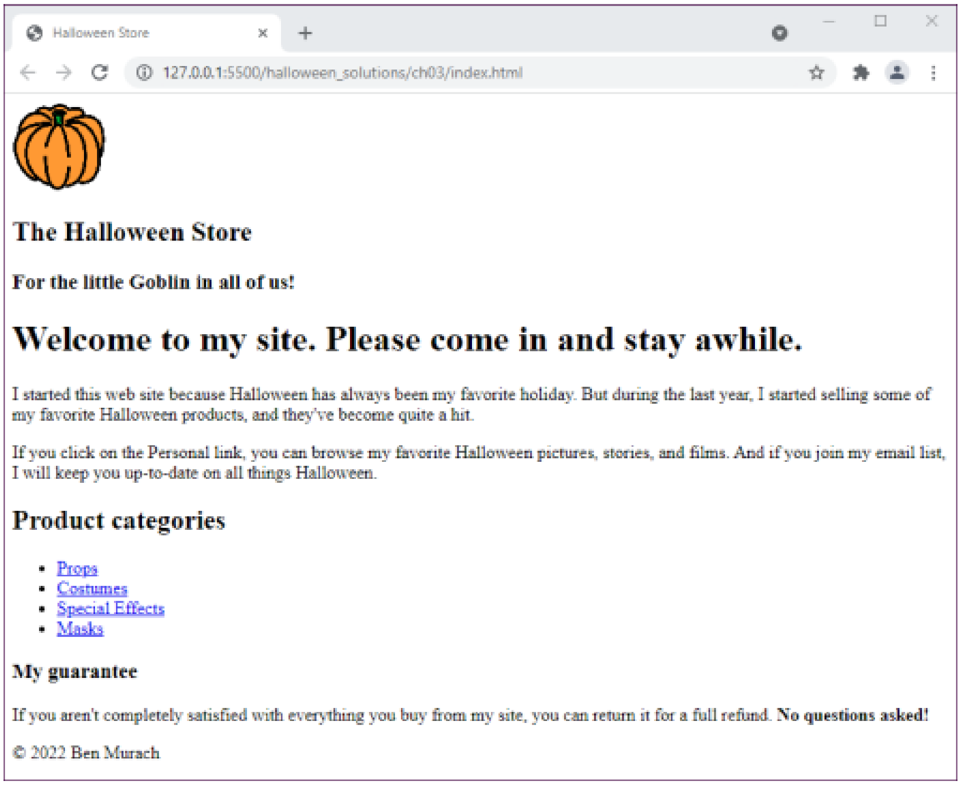
Unlike the exercises in the book, the final project does not give you step-by-step instructions. Instead, the description for what you need to do is shown in an image of how the page should appear in a browser, along with specifications that you can complete in whatever sequence you prefer.

These specifications are detailed enough for you to complete your final project. However, you will need to use your best judgment on how to code many of the details. To do that, write the code in the way that you think is best, based on the skills that are presented in the book.

Before you begin, you need to download the files for the website located on D2L. These files are stored in a folder named "final_project_files" and include the starting HTML and CSS files for the home page, along with all supporting files such as images, media, JavaScript, and text files. The final project will instruct you on when to use each of these files.

## Create the Home Page

In this first section, you will code the HTML for the home page. When you are through, the page should look like this:



### The Halloween Store

**For the little Goblin in all of us!**

## Welcome to my site. Please come in and stay awhile.

I started this web site because Halloween has always been my favorite holiday. But during the last year, I started selling some of my favorite Halloween products, and they've become quite a hit.

If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

### Product categories

- Props
- Costumes
- Special Effects
- Masks

**My guarantee**

If you aren't completely satisfied with everything you buy from my site, you can return it for a full refund. **No questions asked!**

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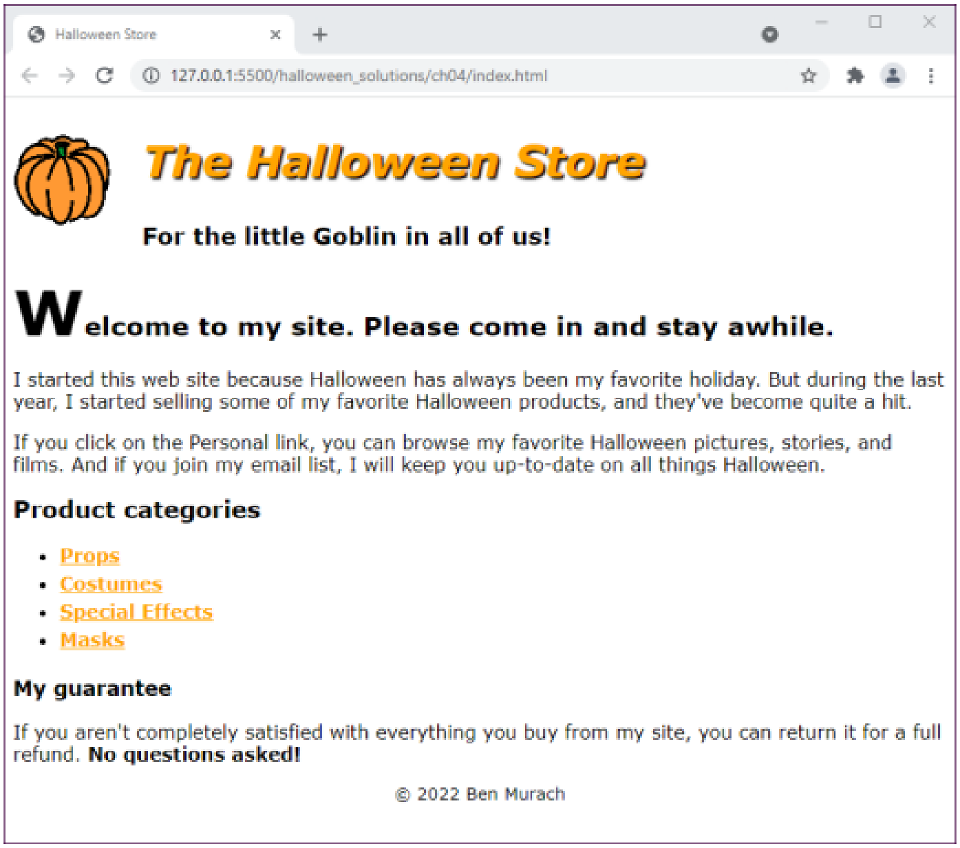
*Specifications:*

- Create the home page from the index.html file that is in the root folder for the project. This file includes just the basic HTML elements.
- Use the HTML semantic elements to structure the page so it includes a header, the main content, and a footer
- Add an image and two levels of headings to the header. You will find the image, named pumpkin.gif, in the images folder. You will find the text for the header as well as for the other areas of the page in the index.txt file in the text folder of your downloads.
- Add three levels of headings and the required text for the main content. Boldface the last sentence of the guarantee.
- Code the product categories as an unordered list with links to other pages. Name the pages props.html, costumes.html, special.html, and masks.html, and assume that these pages will be stored in the products folder.
- Add the required text to the footer, using a character entity for the copyright symbol.

## Format the Home Page

In this section, you will create an external style sheet that you can use to format the Halloween Store home page that you created above. When you are through, the page should look like this:



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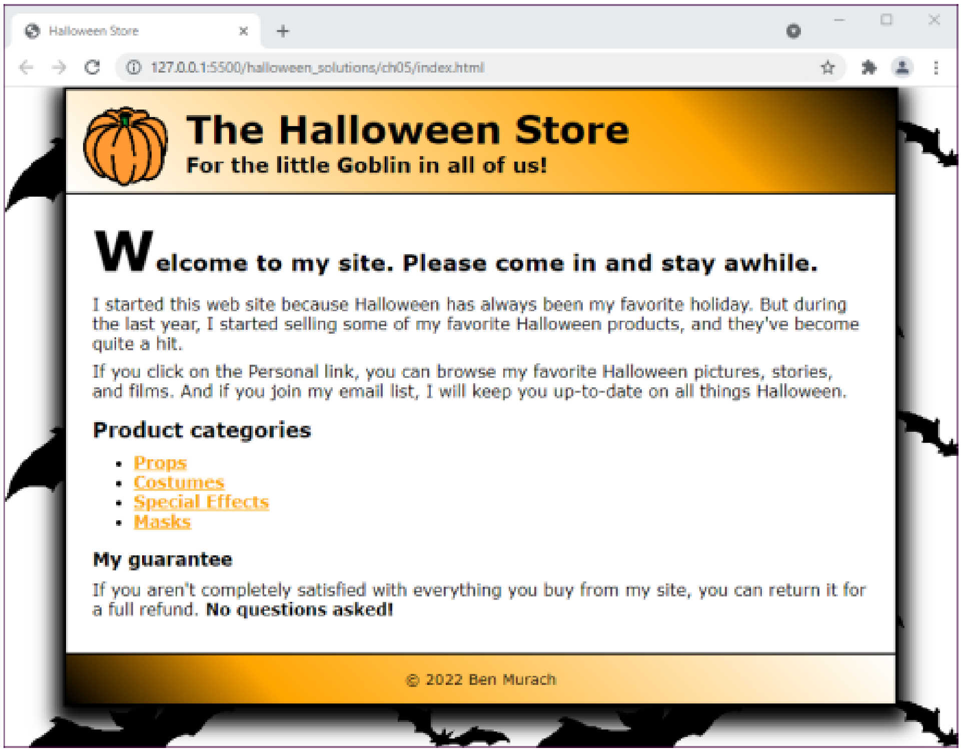
*Specifications:*

- Create the external style sheet for the home page from the main.css file that is in the style folder. This file is currently blank.
- Set the default font for the document to a sans-serif font.
- Adjust the font sizes for all of the headings. In addition, format the first letter of the first heading in the main content so it is larger than the other letters in the heading.
- In the header, float the image to the left and indent both headings. In addition, change the color of the first heading to orange, italicize it, and add a black shadow.
- Format the links so they are displayed in boldfaced orange whether or not they've been visited. If a link has the focus or the mouse is hovering over it, though, it should be displayed in green.
- Format the list to increase the space between the list items.
- Reduce the font size for the footer and center it.
- Link the main style sheet that you just created to the home page.

## Enhance the Home Page Formatting

In this section, you will use the CSS box model to add spacing, borders, and backgrounds to the Halloween Store home page that you formatted above. When you are through, the page should look like this:



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If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product categories

- Props
- Costumes
- Special Effects
- Masks

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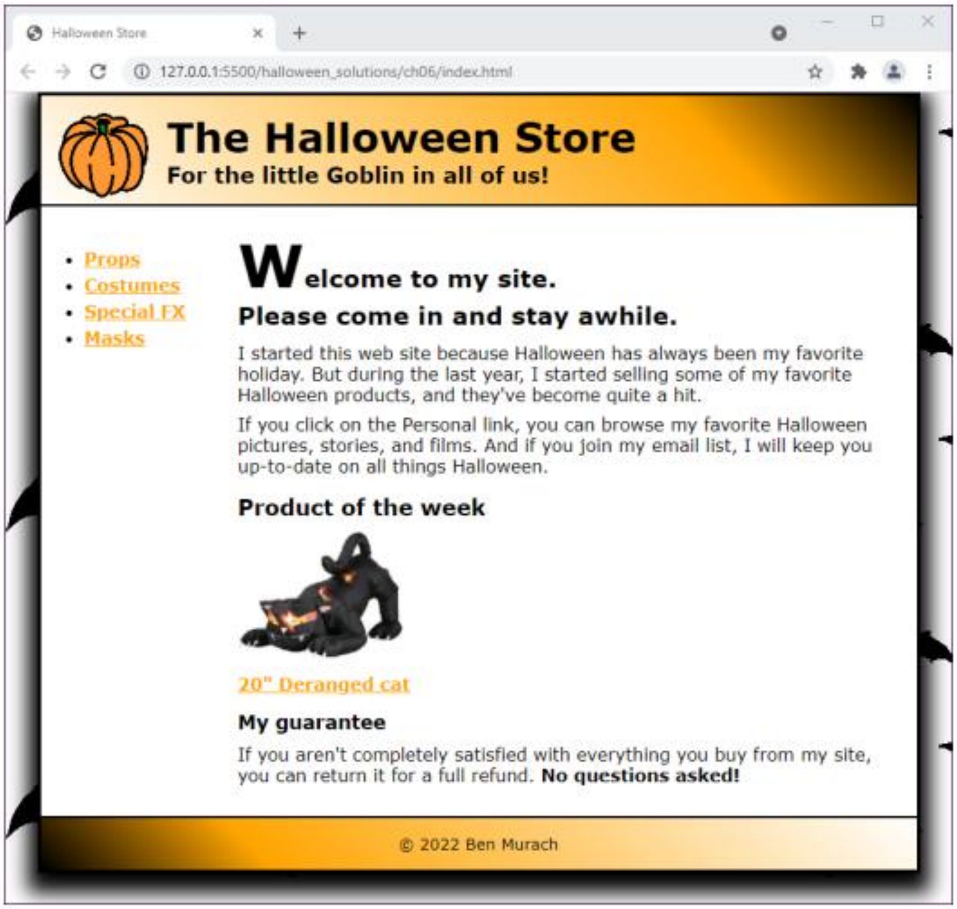
*Specifications:*

- Format the body of the page so it is 800 pixels wide, has a white background, has a black border with a shadow, and is centered in the browser window.
- Add a background image behind the body of the page that uses the bats.gif file in the images folder. This image should repeat both horizontally and vertically.
- Add a black border below the header and above the footer.
- Remove the shadow, italics, and color from the first heading in the header.
- Add a 45-degree gradient to the header and footer. The gradient in the header should range from white at the left to orange ¾ of the way to the right to black at the right. The gradient in the footer should be the reverse.
- Adjust the margins and padding for the elements on the page so it looks as shown above.

## Use a 2-Column Layout

In this section, you will enhance the formatting of the home page, so it uses a 2-column layout. You will also add some additional content to the page. When you are through, the page should look like this:



The Halloween Store

For the little Goblin in all of us!

- Props
- Costumes
- Special FX
- Masks

Welcome to my site.

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If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product of the week

20" Deranged cat

My guarantee

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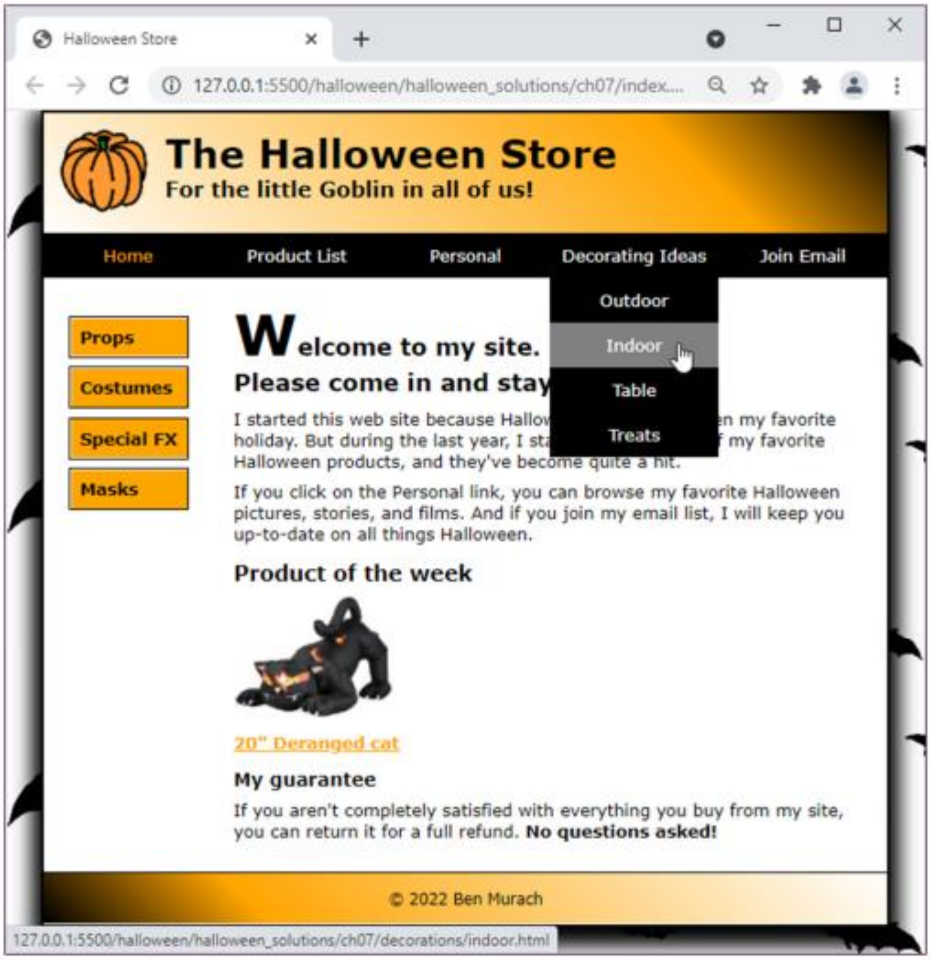
*Specifications:*

- Move the unordered list to a sidebar that is floated to the left of the remaining content, which should be coded in a section. The width of the sidebar should be 160 pixels. Be sure to clear the footer so it is not displayed below the list.
- Adjust the margins and padding for the sidebar and section, as necessary. (Note: Because the unordered list is given some left padding by default, you do not need to apply any additional margin or padding to it.)
- Modify the HTML for the first heading in the section so it is displayed on two lines.
- Modify the second heading as shown. Then, add the image (cat1.jpg) and the link below the heading. The link should display a page named cat.html in the products folder.

## Add Two Navigation Menus

In this section, you will enhance the home page you worked on so, it includes a vertical navigation menu, a two-tier horizontal navigation menu, and an image link. When you are through, the page should look like this:



Welcome to my site.

Please come in and stay

I started this web site because Hallow… en my favorite holiday. But during the last year, I sta… f my favorite Halloween products, and they've become quite a hit.

If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product of the week

20" Deranged cat

My guarantee

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127.0.0.1:5500/halloween/halloween_solutions/ch07/decorations/indoor.html

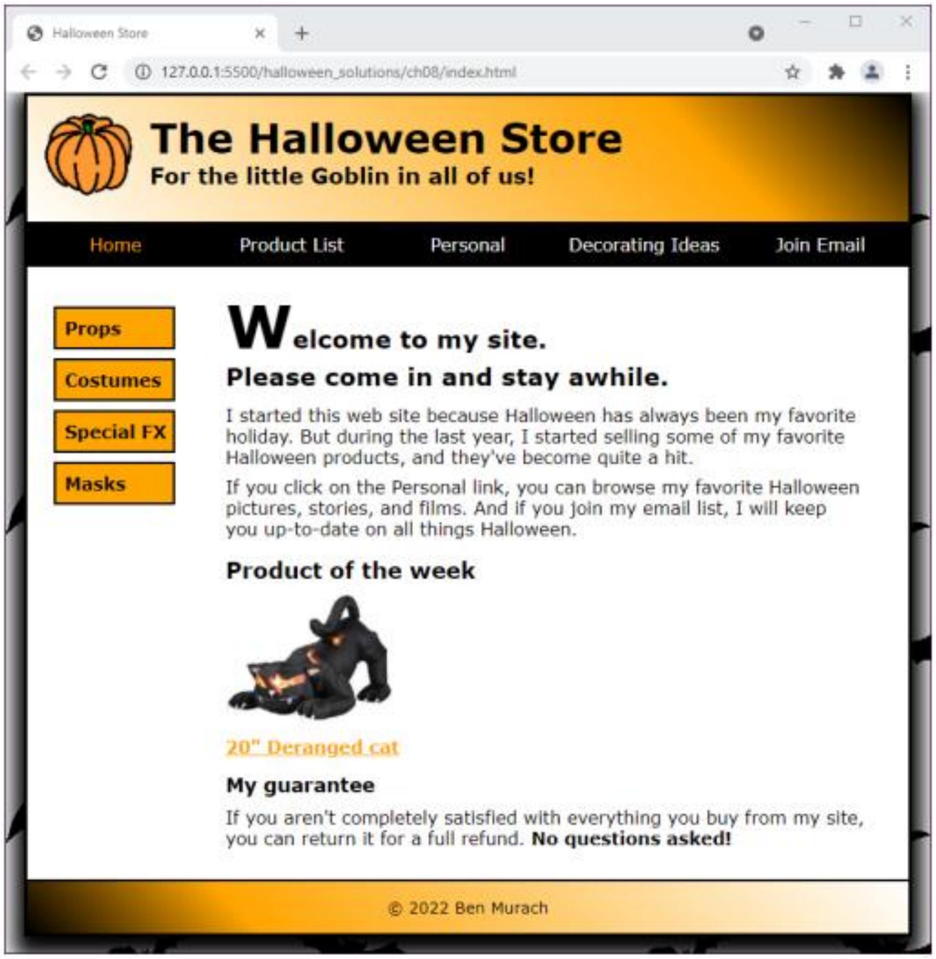
*Specifications:*

- Add a 2-tier navigation menu that includes the links shown above. Format the navigation menu so the link for the page that is currently displayed (in this case, home) has orange text, and so the link that the mouse is hovering over (in this case, indoor) has a gray background.
- Format the links in the sidebar as a vertical navigation menu as shown above. Be sure to make the entire box for each link clickable.
- Modify the image in the main content so it is a link that displays the same page as the link below it.

## Use Responsive Web Design

In this section, you will enhance the home page that you worked on so, it uses Responsive Web Design.

*Specifications for a fluid design:*



The Halloween Store

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If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product of the week

20" Deranged cat

My guarantee

If you aren't completely satisfied with everything you buy from my site, you can return it for a full refund. **No questions asked!**

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- Make a copy of the main.css style sheet and name it main_rwd.css. Then, modify the HTML for the page so it uses this style sheet.
- Modify the page so it uses a fluid layout. The maximum width for the page should be 960 pixels, and the page should occupy 95% of the browser window. Be sure to make

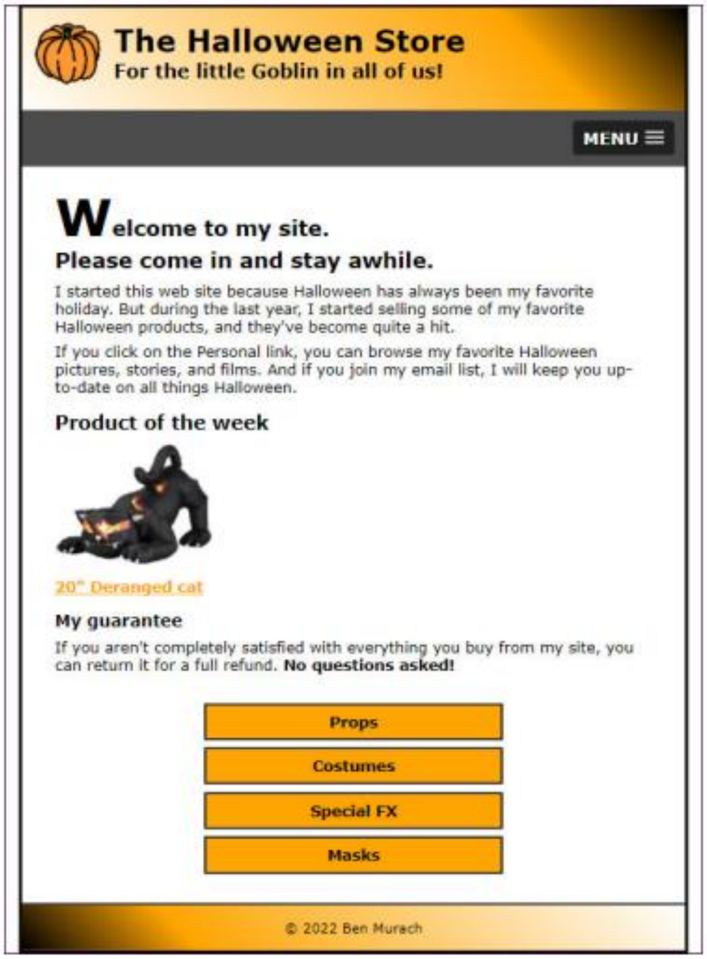
the left and right margins and padding as well as the structural elements fluid. (Note: To get the boxes in the vertical navigation menu to size properly, you will need to specify the width on the ul element instead of the li elements.)

- If you used pixels for any top or bottom margins or padding, convert them to ems. In addition, if you specified any of the font sizes using pixels, convert them to percentages or ems.
- Make both images on the page scalable, and make sure that both images are limited in size to the width that is specified in HTML. In addition, make sure that the image in the header cannot be reduced to a width of less than 40 pixels.

### *Specifications for a media query for a maximum screen width of 800 pixels*

- Add a meta element to the page to control the viewport for media queries.
- Add a media query that will be applied to screens with a maximum width of 800 pixels. Then, add styles to remove the background image from the page, remove the shadow from the body, and reduce the size of all the fonts on the page to 90%.

### *Specifications for a media query for a maximum screen width of 667 pixels*



The Halloween Store

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Welcome to my site.

Please come in and stay awhile.

I started this web site because Halloween has always been my favorite holiday. But during the last year, I started selling some of my favorite Halloween products, and they've become quite a hit.

If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product of the week

20" Deranged cat

My guarantee

If you aren't completely satisfied with everything you buy from my site, you can return it for a full refund. **No questions asked!**

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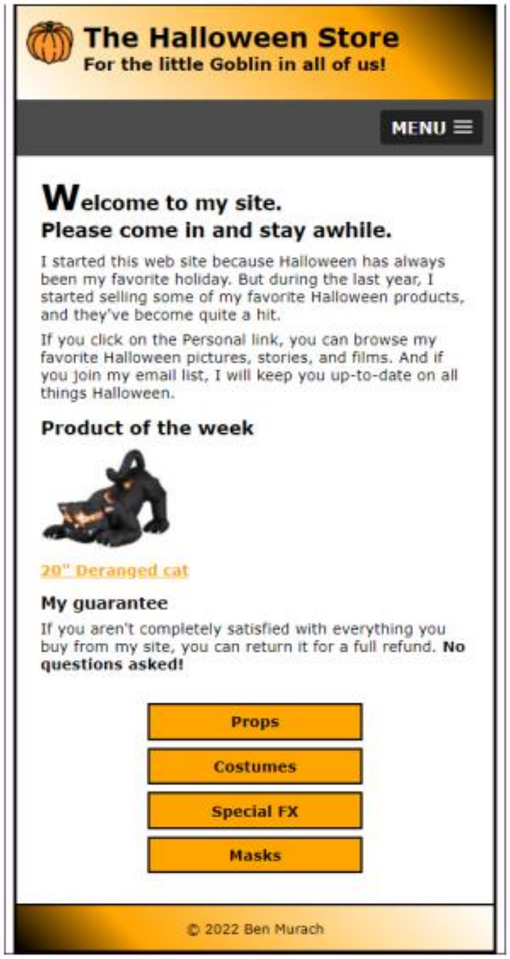
- Add a media query that will be applied to screens with a maximum width of 667 pixels. Then, add the HTML and CSS required to hide the navigation menu and display a SlivkNav menu in its place. You'll find the slicknav.css file in the styles folder, you'll find the slicknav.min.js file in the js folder, and you can get the jQuery library from the jQuery Content Delivery Network. Format the page so it appears in one column.

**Note: The page shown above was captured from Chrome Developer Tools**

*Specifications for a media query for a maximum screen width of 479 pixels*



Welcome to my site.
Please come in and stay awhile.

I started this web site because Halloween has always been my favorite holiday. But during the last year, I started selling some of my favorite Halloween products, and they've become quite a hit.

If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product of the week

20" Deranged cat

My guarantee

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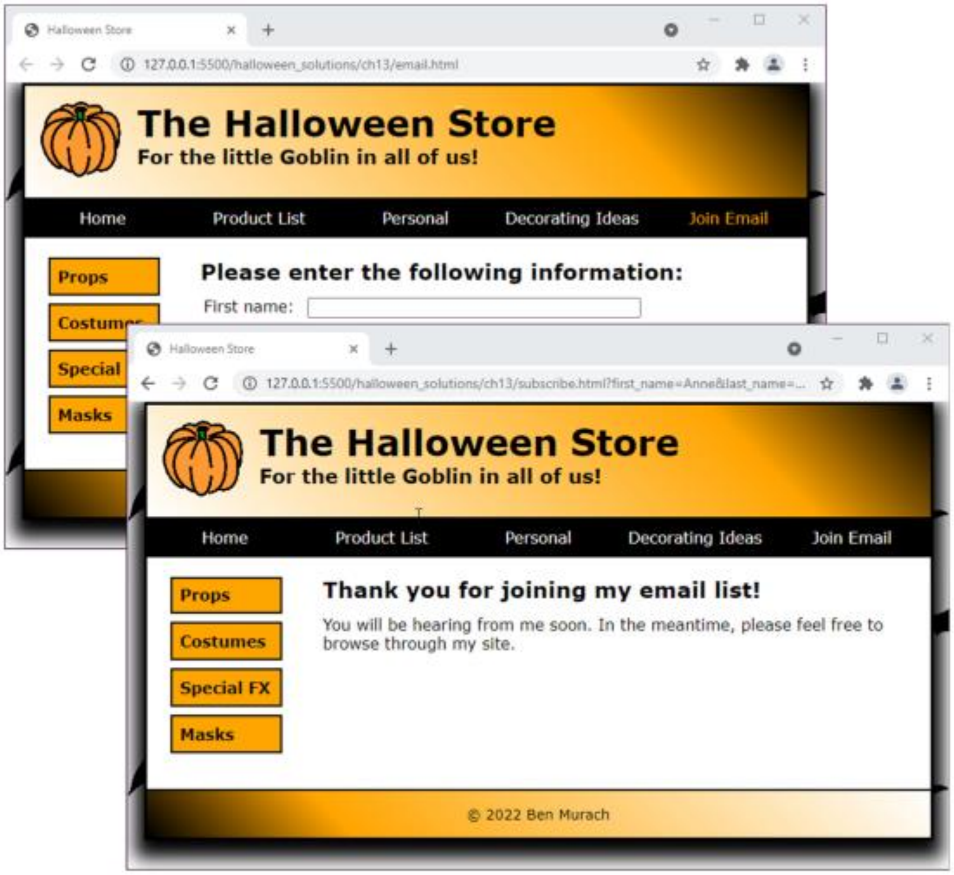
- Add a media query that will be applied to screens with a maximum width of 479 pixels. Then, reduce the font sizes of the headings in the header and the first heading in the section.

**Note: The page shown above was captured from Chrome Developer Tools**

## Create a Page That Uses a Form

In this exercise, you will create a page that includes a form for joining an email list. In addition, you will create a page that is displayed when the form is submitted. When you are through, the pages should look like this:



The Halloween Store

For the little Goblin in all of us!

Please enter the following information:

First name:

The Halloween Store

For the little Goblin in all of us!

Thank you for joining my email list!

You will be hearing from me soon. In the meantime, please feel free to browse through my site.

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*Specifications for the email form:*

- Create a new page named email.html in the root folder for the project. Then, copy the code for the basic page elements, as well as for the header, footer, and sidebar, from the home page.
- Modify the horizontal navigation menu so it indicates that the email page is the current page.
- Create a new style sheet named email.css for the email page and copy the styles you need from the main.css file to this style sheet. Then, modify the link element for the style sheet in the email.html file so it points to the correct style sheet.
- Add the heading and the form element to the section. Code the form element so a form named subscribe.html in the root folder is displayed when the Subscribe button is clicked.
- Add the label and input elements for the form (first name, last name, email address, phone number).
- Add a submit button. Format the button so it is orange with a black border.

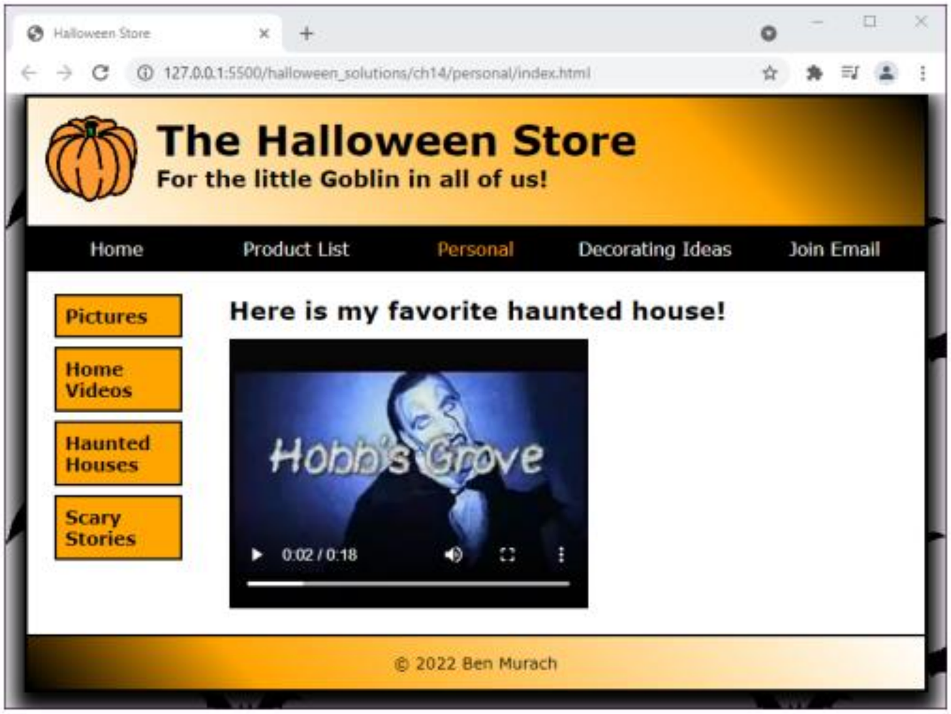
- Use the data validation attributes to require entries in the email and phone number text fields. In addition, display an appropriate message in the tooltip if the entry is invalid.
- Add any other formatting as necessary so the page looks as shown above.

*Specifications for the subscribe form:*

- Create a new page named subscribe.html in the root folder for the project. Then, copy the code for the basic page elements, as well as for the header, footer, and sidebar, from the email page.
- Create a new style sheet named subscribe.css for the subscribe page and copy the styles you need from the main.css file to this style sheet. Then, modify the link element for the style sheet in the subscribe.html file so it points to the correct style sheet.
- Modify the horizontal navigation menu so it indicates that no page is current.
- Add the heading and paragraph shown above, and format it, as necessary.

## Create a Page That Uses Video

In this section, you will create a personal page that contains a video. When you are through, the page should look like this:



The Halloween Store

For the little Goblin in all of us!

Here is my favorite haunted house!

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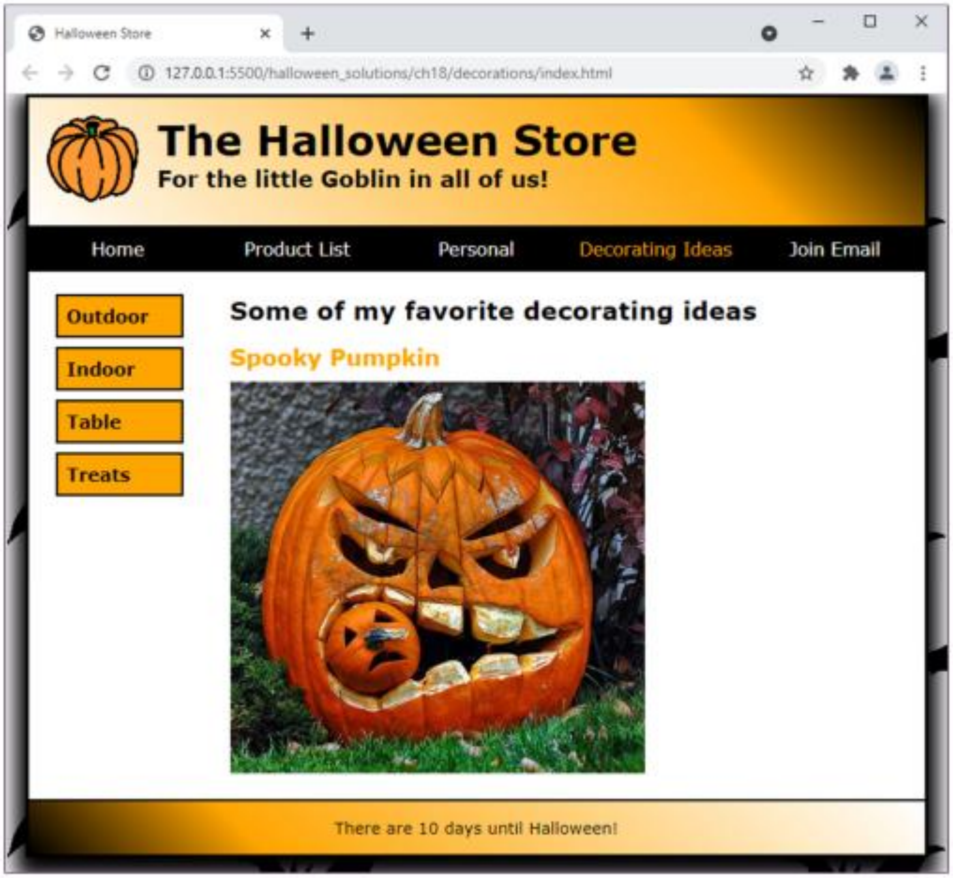
*Specifications:*

- To create the personal page, you can copy the index.html file from above to the personal folder. Then, you can delete the content from the section and modify the URLs on the page, as necessary.
- Modify the horizontal navigation menu so it indicates that the personal page is the current page.

- Modify the vertical navigation menu so it provides the links shown above. Use any names you want for the pages but assume that they are stored in the personal folder.
- Create a new style sheet named personal.css for the personal page and copy the styles you need from the main.css file. Then, modify the link element for the style sheet in the personal/index.html file so it points to the correct style sheet.
- Add a heading and the video to the section. You will find the video file you need in the media folder. The video should not start playing until you click on the play button.
- Add any other formatting as necessary so the page looks as shown above.

## Use JavaScript and jQuery to Enhance the Footer and Add a Slide Show

In this section you will create a decorations page that uses jQuery to present a slide show with decorations ideas. In addition, you'll use JavaScript to add a footer that indicates when Halloween is. When you're done, the page should look similar to this:



The Halloween Store

For the little Goblin in all of us!

Some of my favorite decorating ideas

Spooky Pumpkin

There are 10 days until Halloween!

*Specifications:*

- To create the decorations page, you can copy the index.html file from exercise 7 to the decorations folder. Then, you can delete the content from the section and modify the URLs on the page as necessary.

- Modify the horizontal navigation menu so it indicates that the decorations page is the current page.
- Modify the vertical navigation menu so it provides the links shown above. Use any names you want for the pages but assume that they're stored in the decorations folder.
- Create a new style sheet named decorations.css for the decorations page and copy the styles you need from the main.css file to this style sheet. Then, modify the link element for the style sheet in the decorations/index.html file so it points to the correct style sheet.
- Add the JavaScript that creates the footer to the decorations/index.html file. You'll find this script in the days_to_halloween.js file in the js folder.
- Add the script elements that are needed to create a slide show. You'll find the slide_show.js file in the js folder, and you can get the jQuery library from the jQuery Content Delivery Network.
- Add a heading and the slide show to the section. You'll find the image files you need in the slides/decorations folder.
- Add any other formatting as necessary so the page looks as shown above.

## Final Steps

- Add a favicon to every HTML page of your project (favicon image can be found in your images folder within your download)
- Ensure you have alt-text for your images/media
- Ensure you have notes throughout your code so it will be easy to distinguish what your code is doing and how it works in your project

## Grading Rubric

| Section | Possible Points | Points Awarded |
|---|---|---|
| **Index Page**<br>• All content on page<br>• All HTML semantic elements to structure the page<br>• Created an external style sheet and linked it correctly to your HTML file<br>• Set the correct font of the page<br>• Float image header correctly<br>• Add a CSS box model to add spacing, borders, and backgrounds<br>• Add 2-column layout and format appropriately<br>• Add a vertical navigation menu, a two-tier horizontal navigation menu, and an image link<br>• Enhance the home page so, it uses Responsive Web Design for 3 different page widths | **35** | |
| **Join Email Page**<br>• Create a Join Email Page<br>• Create a new style sheet for this page and copy the elements you need for it to format correctly from the main.css style sheet from earlier in your project<br>• Create a Thank You page for when your user has filled out the Join Email page form.<br>• Add data validation attributes and tooltip messages as appropriate | **25** | |
| **Personal Page**<br>• Add video from downloads folder to page<br>• Modify the horizontal navigation menu so it indicates that the personal page<br>• Create a new style sheet named personal.css and copy the elements you need for it to format correctly from the main.css style sheet from earlier in your project<br>• Add a heading and the video to the section<br>• The video does not start playing until you click on the play button | **25** | |
| **Decorations Page (JavaScript):**<br>• Created a new style sheet for your Decorations page per instructions<br>• Added the JavaScript code that creates the footer that indicates when Halloween will be<br>• Added the script elements that are needed to create a slide show | **15** | |
| **Possible Grade Reduction**<br>• Poorly formatted HTML and CSS<br>• Missing alt tags from images<br>• Including CSS within your HTML page rather than in its own file<br>• Uncorrected HTML, CSS, and JavaScript errors<br>• Not providing your JavaScript to the project<br>• Not labeling your file names correctly<br>• Not using sub folders for your JS, CSS, and Images/Media content | | |

|  |  |  |
|---|---|---|
|  | **100** |  |