

# CIS 4004: Web-Based Information Technology Spring 2018

Project One (100 pts)  
**Due Sunday January 28, 2018**

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Office Hours: M, W & Th: 1:00-3:00pm  
T: 1:00-2:00pm

Department of Computer Science  
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# Project One

- This assignment has four main objectives:
  - (1) To give you some practice marking up text with HTML5 elements.
  - (2) To make the first steps in developing a complete website.
  - (3) Apply ARIA landmark roles to elements for enhancing accessibility.
  - (4) To begin applying the four principles of visual design to a website.



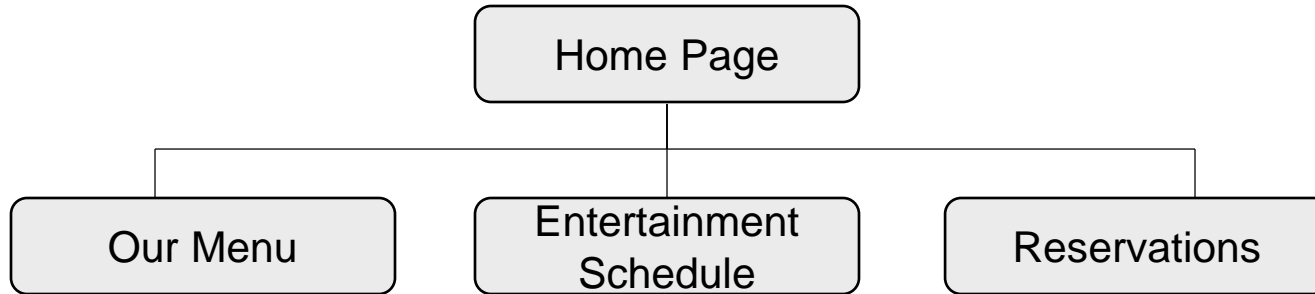
# HTML For Project One

- The owner of The Lighthouse Bistro, located in Mackinac City, Michigan, has hired you create a website for the restaurant.
- The bistro offers a variety of specialty coffees and teas as well as various dining options and entertainment for visitors to the tip of Michigan's northern peninsula .
- The target audience for The Lighthouse Bistro is both locals and visitors (vacationers) to the area who enjoy nature and outdoor activities.
- The owner would like the website to emphasize the uniqueness of the location and the specialty coffees, teas, and cuisine.
- They would like the website to include a home page, a page to describe the menu, an entertainment schedule page, and a page for contacting the bistro.



# HTML For Project One

- The site map for The Lighthouse Bistro is shown below:

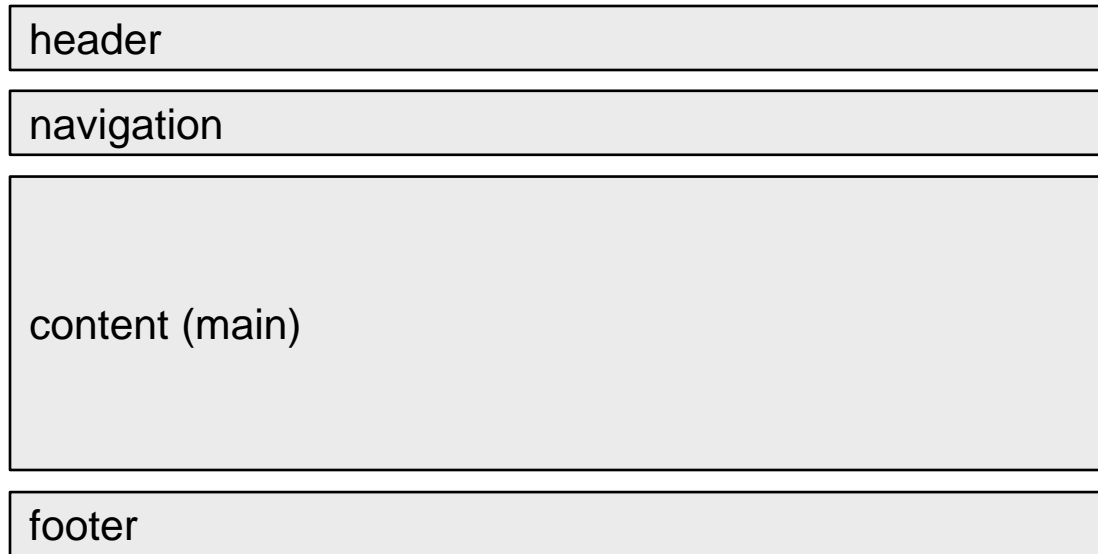


- For this assignment you will begin to create the website by including only two different pages.
  - An index/home page titled “index”.
  - A page titled “menu”.



# HTML For Project One

- The wireframe for each of the two pages to be developed in this project is shown below:



- Create a folder named `ProjectOne` and place both the `index.html` and `menu.html` files for this project inside this folder.



# HTML For Project One

- The content to be included in these two pages is illustrated on the following two slides.
- The layout should conform to the wireframe as shown on page 5.
- Use HTML5 elements as shown on the following two pages and **include appropriate ARIA landmark roles in all the main structural elements (header, navigation, main content, and footer).**
- Be sure to properly indent your markup.



# The Lighthouse Bistro

Wireframe header

[Home](#) [Our Menu](#) [Entertainment Schedule](#) [Reservations](#)

Wireframe navigation

## Enjoy Fine Dining and Entertainment at Lighthouse Point

The Lighthouse Bistro offers fine dining and entertainment a stones throw from the Old Mackinac Point Lighthouse on the Straits of Mackinac. The lighthouse was build in 1892 as a sentinel for vessels entering the Straits of Mackinac. Open year round. Yes, even in the winter! Stop in for a mug of one our specialty coffees after your hike.

Wireframe (main content)

- Specialty Coffees and Teas
- Bagels, Muffins, and Organic Snacks
- Clam Strips, Oysters, and Fresh Fish served daily
- Music and Poetry Readings
- Open Mic Night Every Friday starting at 8:00pm

The Lighthouse Bistro  
#27 Lighthouse Road  
Mackinac City, Michigan 49701  
888-555-5555

Copyright © 2018 The Lighthouse Bistro  
[yourfirstname@yourlastname.com](#)

Wireframe footer

# The Lighthouse Bistro

Navigation is spaced using &nbsp; (not a list). Make links act correctly.

[Home](#) [Our Menu](#) [Entertainment Schedule](#) [Reservations](#)

### Enjoy Fine Dining and Entertainment at Lighthouse Point

The Lighthouse Bistro offers fine dining and entertainment a stones throw from the Old Mackinac Point Lighthouse on the Straits of Mackinac. The lighthouse was build in 1892 as a sentinel for vessels entering the Straits of Mackinac. Open year round. Yes, even in the winter! Stop in for a mug of one our specialty coffees after your hike.

- Specialty Coffees and Teas
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The Lighthouse Bistro  
#27 Lighthouse Road  
Mackinac City, Michigan 49701

888-555-5555

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[yourfirstname@yourlastname.com](#)

The index/home page



# The Lighthouse Bistro

[Home](#) [Our Menu](#) [Entertainment Schedule](#) [Reservations](#)

## Coffees

### **Just Java**

Regular house blend, decaffeinated coffee, or flavor of the day.  
Endless Cup \$2.00

### **Cafe au Lait**

House blended coffee infused into a smooth, steamed milk.  
Single \$2.00 Double \$3.00

### **Iced Cappuccino**

Sweetened espresso blended with icy-cold milk and served in a chilled glass.  
Single \$4.75 Double \$5.75 Wow! \$7.75

## Teas

### **Breakfast Teas**

Darjeeling, English Breakfast, Queen Anne, Green Tea with Lemon  
Endless Cup \$2.00

### **Afternoon Teas**

Lemon, Pure Peppermint, Earl Grey, China Oolong,  
Endless Cup \$3.00

### **Exotic Teas**

Orange & Cinnammon Spice, Camomile, Honey & Vanilla, Pomegranate & Raspberry.  
One Cup \$3.50

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[yourfirstname@yourlastname.com](mailto:yourfirstname@yourlastname.com)

# Project One

- This first project contains no CSS, only markup using HTML5.
- Both of your HTML files must pass validation. Use the validator provided by the W3C organization listed below:
  - <http://validator.w3.org/>
- The output from this validator is illustrated on pages 12-14.
- Note that the validator will produce warnings (if you do not suppress them – see pages 13-14) regarding the ARIA roles you have added to some of the HTML5 elements in the document. These warnings are ok as long as there are no errors.
- An alternate HTML validator is available at: <https://html5.validator.nu> (see last page for an example).

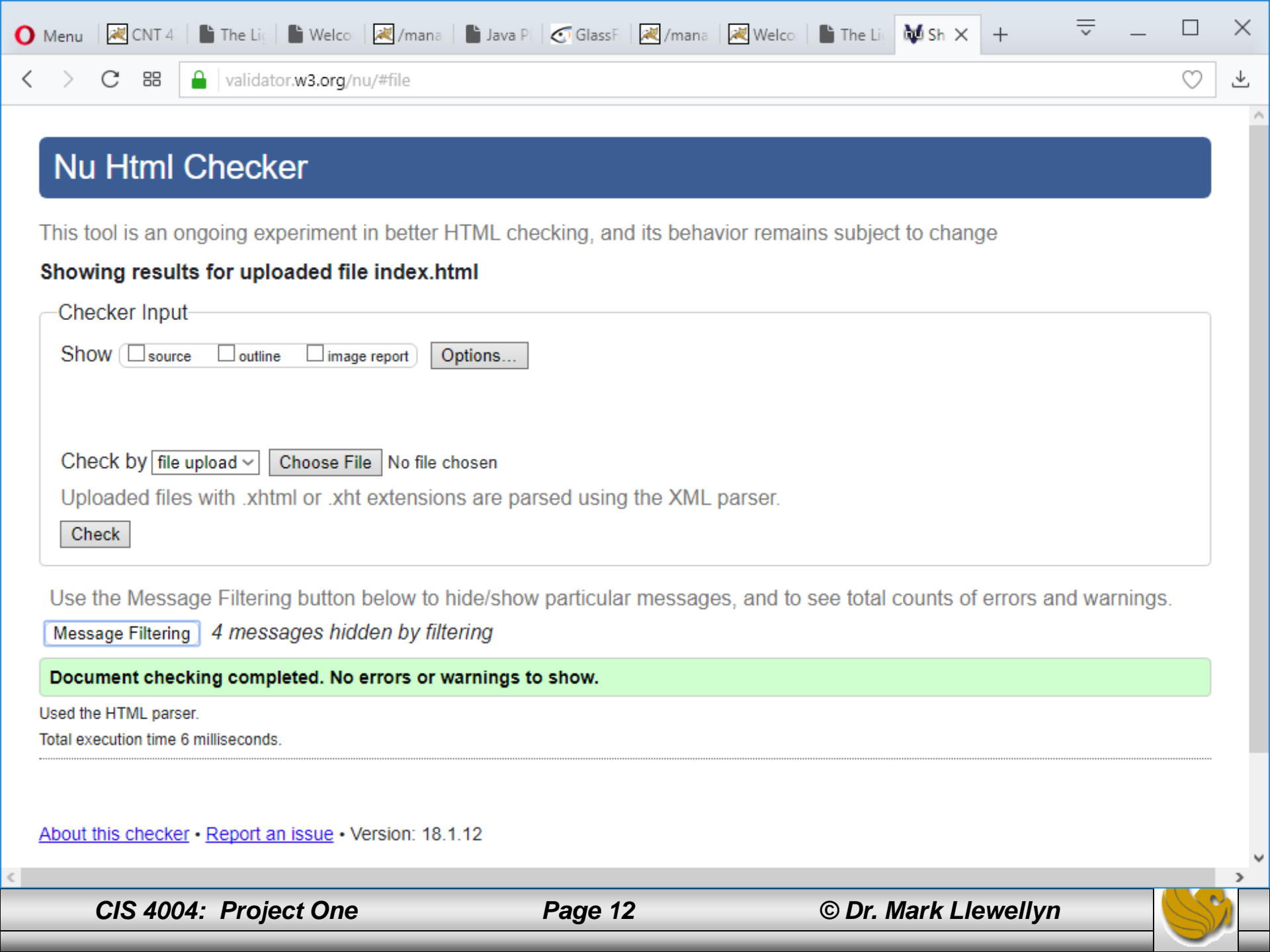


# What To Turn In

The deliverables for this assignment are to be submitted via WebCourses no later than 11:59pm Sunday January 28, 2018 are:

1. Two valid HTML5 documents containing the semantically correct markup for the index/home and menu pages. (70 pts – 35pts for each page). **Be sure your markup is properly indented.**
2. A document containing screen captures for both HTML5 validations (both passing!) (10 pts – 5pts for each valid page)
3. A screen shot of a browser rendering of the home page and the menu page. (20 pts – 10pts for each screen shot)





# Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

## Showing results for uploaded file index.html

### Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by file upload ▾ Choose File No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering 4 messages hidden by filtering

**Document checking completed. No errors or warnings to show.**

Used the HTML parser.

Total execution time 6 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 18.1.12



Menu

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validator.w3.org/nu/#file

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Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for uploaded file index.html

Checker Input

Show

☐ source

☐ outline

☐ image report

Options...

Check by

file upload ▾

Choose File

No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Press the Message Filtering button to collapse the filtering options and error/warning/info counts.

Message Filtering 4 messages hidden by filtering

Warnings (4) · Hide all warnings · Show all warnings

1

The ☐ role is unnecessary for element ☐ (4) · Hide all · Show all

1.1

☐ The banner role is unnecessary for element header

1.2

☐ The navigation role is unnecessary for element nav

1.3

☐ The main role is unnecessary for element main

1.4

☐ The contentinfo role is unnecessary for element footer


Document checking completed. No errors or warnings to show.

Used the HTML parser.

CIS 4004: Project One

Page 13

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1. **Warning** The `banner` role is unnecessary for element `header`.

From line 8, column 2; to line 8, column 23

```
><body><header role="banner"><h1>Th
```

2. **Warning** The `navigation` role is unnecessary for element `nav`.

From line 9, column 2; to line 9, column 24

```
/header><nav role="navigation"><b>
```

3. **Warning** The `main` role is unnecessary for element `main`.

From line 17, column 2; to line 17, column 19

```
</nav><main role="main"><h3
```

4. **Warning** The `contentinfo` role is unnecessary for element `footer`.

From line 38, column 2; to line 38, column 28

```
</main><footer role="contentinfo"><i>
```

**Document checking completed.**

Used the HTML parser.

Total execution time 6 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 18.1.12



## (X)HTML5 validation results for index.html

### Validator Input

File Upload ▾ Choose File No file chosen

☐ Show Image Report

☐ Show Source

Validate

### Group Messages

- Warning:** The banner role is unnecessary for element header.  
From line 8, column 2; to line 8, column 23  
>↵<body>↵ **<header role="banner">**<h1>Th
- Warning:** The navigation role is unnecessary for element nav.  
From line 9, column 2; to line 9, column 24  
>↵</header>↵ **<nav role="navigation">**↵ <b>
- Warning:** The main role is unnecessary for element main.  
From line 17, column 2; to line 17, column 19  
↵ </nav>↵ **<main role="main">**↵ <h3
- Warning:** The contentinfo role is unnecessary for element footer.  
From line 38, column 2; to line 38, column 28  
>↵</main>↵ **<footer role="contentinfo">**↵ <i>

The document is valid HTML5 + ARIA + SVG 1.1 + MathML 2.0 (subject to the utter previewness of this service).

Used the HTML parser.

Total execution time 4 milliseconds.

[About this Service](#) • [More options](#)

