CIS 4004: Web-Based Information Technology Spring 2017

Project One (100 pts)
Due Sunday January 22, 2017

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                      HEC 236, 407-823-2790
                      Office Hours: M & W: 2:30-3:30pm
                                     T: 1:00-2:00pm
                                     Th: 1:00-3:00pm

Department of Computer Science
University of Central Florida

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.

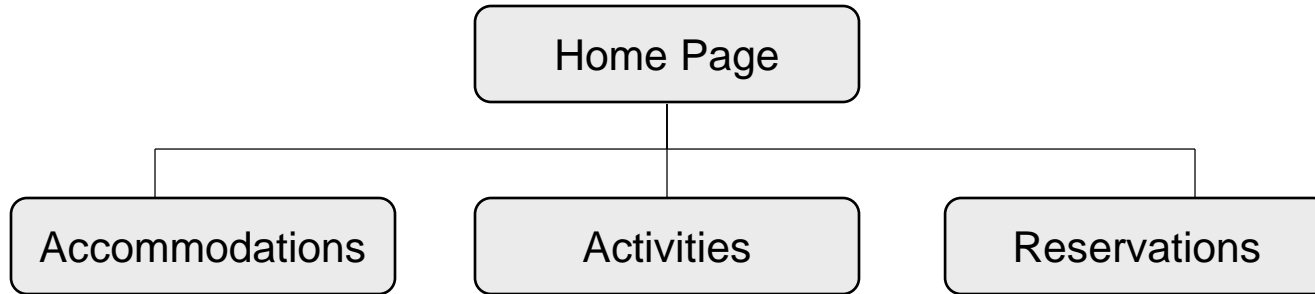 (4) To begin applying the four principles of visual design to a website.

HTML For Project One

- The owner of Atlantic Trails Resort, located in Cliffside, Maine, has hired you create a website for the resort.

- The resort offers a quiet getaway with luxury accommodations along with an upscale lodge for dining and visiting with fellow guests.

- The target audience for Atlantic Trails Resort is couples who enjoy nature and outdoor activities.

- The owner would like the website to emphasize the uniqueness of the location and accommodations.

- They would like the website to include a home page, a page to describe the accommodations, a reservations page, and a page to describe the activities available at the resort.

HTML For Project One

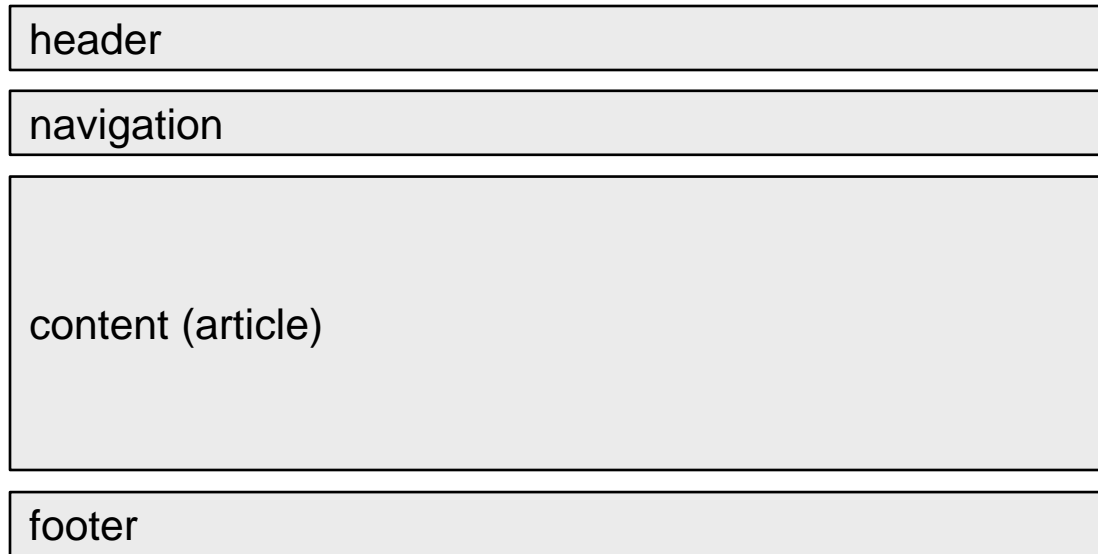- The site map for the Atlantic Trails Resort is shown below:

```
                    ┌─────────────────┐
                    │   Home Page     │
                    └─────────────────┘
                             │
        ┌────────────────────┼────────────────────┐
┌─────────────────┐ ┌─────────────────┐ ┌─────────────────┐
│ Accommodations  │ │    Activities   │ │  Reservations   │
└─────────────────┘ └─────────────────┘ └─────────────────┘
```

- 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 "accomodations".

HTML For Project One

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

header

navigation

content (article)

footer

- Create a folder named `ProjectOne` and place both the `index.html` and `accommodations.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.

Atlantic Trails Resort

Wireframe header

Home Accommodations   Activities Reservations

Wireframe navigation

Enjoy Nature in Luxury

Atlantic Trails Resort offers a special lodging experience on the rugged Altantic North Coast of Maine. Relax in serenity with panoramic views of the Atlantic Ocean.

- Private bunglows with decks overlooking the ocean
- Activities lodge with fireplace and gift shop
- Nightly fine dining at the Overlook Cafe
- Heated outdoor pool and whirlpool
- Guided hiking tours of the pine forests

Atlantic Trails Resort
1210 Atlantic Trails Way
Cliffside, Maine 04226

888-555-5555

Wireframe article (main content)

Copyright © 2017 Atlantic Trails Resort
yourfirstname@yourlastname.com

Wireframe footer

Atlantic Trails Resort

h1

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

Home   Accommodations   Activities   Reservations

Enjoy Nature in Luxury

h2

Atlantic Trails Resort offers a special lodging experience on the rugged Altantic North Coast of Maine. Relax in serenity with panoramic views of the Atlantic Ocean.

p

- Private bunglows with decks overlooking the ocean
- Activities lodge with fireplace and gift shop
- Nightly fine dining at the Overlook Cafe
- Heated outdoor pool and whirlpool
- Guided hiking tours of the pine forests

ul

Atlantic Trails Resort
1210 Atlantic Trails Way
Cliffside, Maine 04226

div

888-555-5555

Copyright symbol is ©

Copyright © 2017 Atlantic Trails Resort
yourfirstname@yourlastname.com

The index/home page

Atlantic Trails Resort

Home   Accommodations   Activities   Reservations

The Accommodations at Atlantic Trails

What is a bungalow?

Our luxury bungalows are permanent structures four feet off the ground. Each bungalow has canvas walls, a wooden floor, and a roof dome that can be opened.

How are the bungalows furnished?

Each bungalow is furnished with a queen-size bed with down quilt and gas-fired stove. The luxury camping experience also includes electricity and a sink with hot and cold running water. Shower and restroom facilities are located in the lodge.

What should I bring?

Bring a sense of adventure and some time to relax! Most guests also pack comfortable walking shoes and plan to dress for changing weather with layers of clothing.

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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 12-13.

- Note that the validator will produce warnings (if you do not suppress them – see page 13) 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 22, 2017 are:

1. Two valid HTML5 documents containing the semantically correct markup for the index/home and accommodations 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 accommodations 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 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] *3 messages hidden by filtering*
Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 5 milliseconds.

About this checker • Report an issue • Version: 17.1.0

jQuer | /man | CNT | localh | localh | localh | Atlan | Atlan | Atlan | Sh ✕ | +

🔒 validator.w3.org/nu/#file

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 display options for hiding/showing particular messages, and to see total counts of errors and warnings.

[Message Filtering]

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

    From line 8, column 3; to line 8, column 24

    ↵`<body>`↵   `<header role="banner"><h1>At`

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

    From line 9, column 3; to line 9, column 25

    `header>`↵   `<nav role="navigation">`↵   `<`

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

    From line 33, column 3; to line 33, column 29

    `rticle>`↵   `<footer role="contentinfo">`↵   `Cop`

Document checking completed

(X)HTML5 validation results for index.html

Validator Input

File Upload ▾ | Choose File | No file chosen

☐ Show Image Report
☐ Show Source

[Validate]

[Group Messages]

1. **Warning**: The `banner` role is unnecessary for element `header`.
   From line 8, column 3; to line 8, column 24
   `↵<body>↵`   `<header role="banner">`<h1>At

2. **Warning**: The `navigation` role is unnecessary for element `nav`.
   From line 9, column 3; to line 9, column 25
   `header>↵`   `<nav role="navigation">`↵   `<`

3. **Warning**: The `contentinfo` role is unnecessary for element `footer`.
   From line 33, column 3; to line 33, column 29
   `rticle>↵`   `<footer role="contentinfo">`↵   Cop

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