

# CIS 4004: Web-Based Information Technology Summer 2014

Homework Assignment #4 (100 pts)  
**Due Wednesday July 9, 2014**

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# Homework Assignment #4

- This assignment has two main objectives:
  - (1) To give you some practice modifying the content and presentation of an existing website.
  - (2) To use JavaScript to manipulate the DOM for your webpages by modifying the presentation of the content through JavaScript. This will give you some practice writing JavaScript functions and utilizing these functions to change the presentation of your webpages.
- This project starts off with the completed website that you created for Homework Assignment #3. If you haven't successfully completed that project, you will need to do so before starting this assignment.



# HTML For Assignment #4

- This assignment will be using the four HTML documents that you created for assignment #3. All of these pages will be modified somewhat by this assignment.
  - An index/home page.
  - A page titled Activities.
  - A page titled Accommodations. This page contains a table.
  - A page titled Reservations. This page contains a form.
- The main theme that was created in the previous assignment remains, but some additional content and presentation will be handled by JavaScript.
  - Each page will have the current date and time displayed in the footer area.
  - The Accommodations page will have the table augmented statically in markup and dynamically by JavaScript.
  - The list bullets will be styled using an image.



# Atlantic Trails Resort

Home  
Accommodations  
Activities  
Reservations

## Enjoy Nature in Luxury



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

- Private bungalows 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  
Andover, Maine 04226

888-555-5555

Copyright © 2014 Atlantic Trails Resort  
[yourfirstname@yourlastname.com](mailto:yourfirstname@yourlastname.com)

The index/home page from  
Assignment #3



# Atlantic Trails Resort

- Home
- Accommodations
- Activities
- Reservations

## Enjoy Nature in Luxury



**Atlantic Trails Resort**  
1210 Atlantic Trails Way  
Andover, Maine 04226  
  
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The default list bullets are replaced with an image via CSS.

The current date and time is added to the footer via JavaScript

Copyright © 2014 Atlantic Trails Resort  
[yourfirstname@yourlastname.com](mailto:yourfirstname@yourlastname.com)  
Today is: Mon Jun 30 2014 14:47:55 GMT-0400 (Eastern Daylight Time)

The modified 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.

### Bungalow Packages

A variety of luxury bungalow packages are available. Choose a package below and contact us to begin your reservation. We're happy to build a custom package just for you!

Package Name	Description	Nights	Cost per Person
Weekend Escape	Two breakfasts, a trail map, and a picnic snack.	2	\$450
Zen Retreat	Four breakfasts, a trail map, a picnic snack, and a pass for the daily sunrise Yoga session.	4	\$600
Kayak Away	Two breakfasts, two hours of kayak rental daily, and a trail map.	2	\$500

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

The accommodations page  
from Assignment #3



# Atlantic Trails Resort

Home  
Accommodations  
Activities  
Reservations

## The Accommodations at Atlantic Trails



### What is a bungalow?

Our luxury bungalows are permanent structures built on the ground. Each bungalow has a canvas floor, and a roof dome that can be opened or closed.

### How are the bungalows furnished?

Each bungalow is furnished with a queen size bed, a down quilt and gas-fired stove. The luxury experience also includes electricity and cold running water. Shower and restroom 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.

### Bungalow Packages

A variety of luxury bungalow packages are available. Choose a package below and contact us to begin your reservation. We're happy to build a custom package just for you!

Package Name	Description	Nights	Cost per Person
Weekend Escape	Two breakfasts, a trail map, and a picnic snack.	2	\$450
Zen Retreat	Four breakfasts, a trail map, a picnic snack, and a pass for the daily sunrise Yoga session.	4	\$600
Kayak Away	Two breakfasts, two hours of kayak rental daily, and a trail map.	2	\$500
Honeymoon Adventure	Five breakfasts, five undisturbed days, and a guided trail tour.	5	\$1000
Moonlight Madness	One dinner, moonlight nature walk to the ocean, and a trail map.	1	\$200

The table has been altered via JavaScript to include:

1. The alternate color striping of the odd numbered rows in the table.
2. The table has been centered within the column.
3. The font size of the table elements has been reduced compared to the other text on the page.

Copyright © 2014 Atlantic Trails Resort  
[yourfirstname@yourlastname.com](mailto:yourfirstname@yourlastname.com)  
Today is: Mon Jun 30 2014 15:06:46 GMT-0400 (Eastern Daylight Time)

The current date and time is added to the footer via JavaScript





experience also include  
and cold running water.  
are located in the lodge

The table has been altered via JavaScript to include:

1. The alternate color striping of the odd numbered rows in the table.
2. The table has been centered within the column.
3. The font size of the table elements has been reduced compared to the other text on the page.

### What should I bring?

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

### Bungalow Packages

A variety of luxury bungalow packages are available. Choose a package for your reservation. We're happy to build a custom package just for you!

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The current date and time is added to the footer via JavaScript

Copyright © 2014 Atlantic Trails Resort  
[yourfirstname@yourlastname.com](mailto:yourfirstname@yourlastname.com)  
Today is: Mon Jun 30 2014 15:06:46 GMT-0400 (Eastern Daylight Time)

The accommodations page full size



# Homework Assignment #4

- All of the content and styling that you did for Assignment #3 remains in place for this assignment.
- The date and time content will be added dynamically to each page via JavaScript.
- The additional two rows (the last two rows) in the table on the Accommodations page will be added statically (just add those two rows of information to your markup). However, the new presentational properties of the table; the row striping, the centering of the table, and the font size change are all done via JavaScript.
- The change in the list bullets on the Index/Home page will be done via CSS statically. I've placed a file named `marker.gif` on the website for you to use for new list bullet image.



# Homework Assignment #4

- The JavaScript function that modifies the table presentation on the Accommodations page should be targeted function.
- The function should not apply to any table that appears on a webpage, but only those tables that are members of a specific class. A webpage might contain many different tables and we don't want the function to necessarily alter every table on the page.
- Thus, the markup must be altered to add a class to the table on the Accommodations page. The JavaScript function will check to see if a table is a member of the class and if so, the function would alter the table's presentation accordingly. If the a table is not a member of the class, then the function would simply ignore that table and it would have no effect on the table's presentation.



# Homework Assignment #4

- All of your JavaScript must be in an external JavaScript file (using a `.js` extension).
- For this assignment, we are not requiring the user to interact with our webpages to cause the JavaScript to modify the page, the effects will all occur because the page has been loaded by the browser. Thus, you will not need to use event listeners and handlers for this assignment (that comes next time).
- All of effects produced by your JavaScript must be done with functions. Do not use any JavaScript inline or actual scripts in the head of your documents. (The exception to this is the back button on the `.php` page will be as in Assignment #3.)
- All of the additional restrictions that applied to Assignment #3 also apply to this assignment.



# Homework Assignment #4

- The header of all the pages uses the `sunset.jpg` image file.
- All site links must work to allow the user to move from page to page within the site.
- All markup pages must validate using the W3C HTML validator. Both style sheets must validate using the W3C CSS validator.
- **Do not use any inline or embedded styles for this assignment. Use only external style sheets.**
- **Do not use any absolute positioned elements.**
- Include at least four appropriate ARIA landmark roles in your markup. These can occur on any page of markup. Be correct and consistent with their use.



# Homework Assignment #4

- Since we are not actually putting the PHP script onto a server for it to execute, we'll be simulating its behavior by simply invoking it from the reservations form when the user clicks the Submit button.
- You will need to create the PHP file (it will contain no actual PHP, just HTML in this case), and style it appropriately as shown.
- The way to activate the BACK button on this page is also via a form and the code that you will need is shown below:

```
<form action="#">
```

```
<input type="button" value = "Back" onclick="javascript:history.go(-1)" />
```

```
</form>
```



# What To Turn In

The deliverables for this assignment are to be submitted via WebCourses no later than 11:59pm Wednesday July 9, 2014 are:

1. Four valid HTML5 documents containing the semantically correct markup for the index/home, accommodations, activities, and reservations pages. Each of these pages will be modified by JavaScript when loaded. (30 pts)
2. Two valid CSS external style sheets, one with styles for the four main pages, and one that contains the styles for the PHP script for the reservations form. (20 pts)
3. A document containing screen captures for all HTML5 validations and CSS validations (all six passing!) .(10 pts)
4. Screen shots, showing each page in your website rendered in a browser (four shots). (10 pts)
5. A JavaScript file containing all of the JavaScript you created to achieve the effects required for this assignment. (30 pts)

