

CIS 4004: Web-Based Information Technology

Spring 2015

Homework Assignment #6 (100 pts)

Due Sunday April 26, 2015

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Office: HEC 236, 407-823-2790

Office Hours: M&W 1:00-3:00pm, T&Th 10:30am-12:30pm

Department of Electrical Engineering and Computer Science
Computer Science Division
University of Central Florida



Homework Assignment #6

- This assignment has two main objectives:
 - (1) To give you some practice using event listeners and event handlers in JavaScript.
 - (2) To use JavaScript to add dynamic (user generated) actions on your webpages by modifying the presentation of the content. This will give you some further 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 #5. If you haven't successfully completed that project, you will need to do so before starting this assignment.



Homework Assignment #6

- The next four slides illustrate the static additions you will make to the markup for the Activities page.
- Notice that the text has been altered as well as the new tables. This new text and the tables are added to the markup.
- **Also notice that all text is now fully justified.**
- **Also notice that link element colors are different inside tables.**



Atlantic Trails Resort

Home
Accommodations
Activities
Reservations

Activities at Atlantic Trails



sunrise several times a week.

Hiking

Atlantic Trails Resort has 5 miles of hiking trails and is adjacent to a state park. Go it alone or join one of our guided hikes.

Kayaking

Ocean kayaks are available for guest use.

Bird Watching

While anytime is a good time for bird watching at Atlantic Trails, we offer guided birdwatching trips at

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The Activities page from
Assignment #5



Accordion Widget Example

Activities at Atlantic Trails



Atlantic Trails Resort has 5 miles of hiking trails and is adjacent to a state park. Go it alone or join one of our guided hikes. The table below lists some of our guided hikes and their departure times from the main office. Sign-up in the office for any or all of the hikes during your stay at Atlantic Trails. Our guides will point out many interesting features and landmarks during your hike.

Tour Start Time	Description	Guide	Time
6:00 am	2 mile hike on the upper ridge - watch the sun rise.	Stephanie	2 hours
8:00 am	4 mile hike in the state park. Transportation leaves from main office.	Roger	3 hours
1:00 pm	6 mile hike over the full trail and the beach head. Some light climbing.	Stephanie or Heidi	4.5 hours

Kayaking

Ocean kayaks are available for guest use. The table provides a summary of our kayaks. Be sure of your kayaking skills. Check the links to identify your skill level. If you have any questions, please contact Dave in the main office.

Kayak Type	Description	Skill Level
Sea	Long, flat bottom, cargo area for your personal effects.	Low to moderate
Surf	Shorter, more maneuverable than the sea kayak.	Moderate to high
White Water	Very short, rounded hull, very robust. Highly maneuverable.	Expert

While any time is a good time for bird watching at Atlantic Trails, we offer several guided birdwatching trips each week. The table below lists some of these trips. See the main office for more details.

Tour Start Time	Description	Commonly Seen Birds	Guide
5:30 am Tuesdays Only - September thru November	1.5 mile hike on the upper ridge. Lasts about 1 hour	Green Herons , Northern Harriers , Ospreys	Stephanie
6:00 am Saturday and Sunday Only - March thru June	3 mile hike on the beach. Lasts about 2 hours	Cormorants , Canadian Geese , Least Sandpiper	Heidi
5:30 am Thursdays Only - June thru August	3 mile hike in the State Park. Some light climbing.	Lesser Yellowlegs , Willet , Black-bellied Plover	Stephanie or Heidi

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HTML For Assignment #6

- A similar, albeit smaller, modification is made to the table on the Accommodations page.
- In this case a single `<a>` element is added to one row of the table.
- This is illustrated on the next two pages with a snapshot of the Accommodations page from Assignment #5 and one from Assignment #6.



Opera

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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 book 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


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The Accommodations page
from Assignment #5



Opera

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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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Moonlight Madness	One dinner, moonlight nature walk to the ocean, and a trail map.	1	\$200

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<a> added

The Accommodations page from Assignment #6.



Homework Assignment #6

- All of the content and styling that you did for Assignment #5 remains in place for this assignment.
- The new presentational properties of the table will consist of highlighting the row in which the user has placed their cursor with a contrasting color.
- This effect is to occur only on tables that belong to the class “stripe_table”. In other words, not every table will necessarily display this effect.
- The next few pages illustrate the JavaScript effect that we are going to produce for this assignment.



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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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

Default styling of a table in class "stripe_table"

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Opera

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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 row in which the user has moved their mouse has been highlighted.

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Opera

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User has moved the mouse to a different row.



The highlighting effect should NOT occur if the user positions the mouse in the header row of the table.

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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Homework Assignment #6

- The same JavaScript effect will also occur in the tables on the Activities page that belong to the class “stripe_table”.
- When marking up the Activities page, the first and third tables will belong to the “stripe_table” class, the second table (the one about kayaking) will not belong to the class. Thus, the highlighting effect will not occur on that table. It will have the original, non-striped table appearance.
- The next few pages illustrate how the Activities page should appear and behave.



Atlantic Trails Resort

Home
Accommodations
Activities
Reservations

Activities at Atlantic Trails



Hiking

Atlantic Trails Resort has 5 miles of hiking trails and is adjacent to a state park. Go it alone or join one of our guided hikes. The table below lists some of our guided hikes and their departure times from the main office. Sign-up in the office for any or all of the hikes during your stay at Atlantic Trails. Our guides will point out many interesting features and landmarks during your hike.

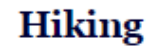
Tour Start Time	Description	Guide	Time
6:00 am	2 mile hike on the upper ridge - watch the sun rise.	Stephanie	2 hours
8:00 am	4 mile hike in the state park. Transportation leaves from main office.	Roger	3 hours
1:00 pm	6 mile hike over the full trail and the beach head. Some light climbing.	Stephanie or Heidi	4.5 hours

The top part of the Activities page illustrating the modified text and highlight enabled table.



The top part of the Activities page illustrating the user's mouse cursor in the first row of the table.

Activities at Atlantic Trails



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The bottom part of the Activities page illustrating the user's mouse cursor in the last row of the last table. Notice that the middle table does not belong to the "stripe_table" class and thus has the original styling.

Kayak Type		
Sea	Long, flat bottom, cargo area for your personal effects.	Low to moderate
Surf	Shorter, more maneuverable than the sea kayak.	Moderate to high
White Water	Very short, rounded hull, very robust. Highly maneuverable.	Expert

Bird Watching

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5:30 am Thursdays Only - June thru August	3 mile hike in the State Park. Some light climbing.	Lesser Yellowlegs , Willet , Black-bellied Plover	Stephanie or Heidi

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Homework Assignment #6

- All of your JavaScript must be in an external JavaScript file (using a `.js` extension).
- 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 #4 and #5.)
- All of the additional restrictions that applied to Assignments #4 and #5 also apply to this assignment.



Homework Assignment #6

- 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 #6

- 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 Sunday April 26, 2015 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. (25 pts)
2. A minimum of two valid CSS external style sheets, one with styles for the four main pages (as before separate style sheets for structure and presentation are desirable), and one that contains the styles for the PHP script for the reservations form. (25 pts)
3. A JavaScript file containing all of the JavaScript you created to achieve the effects required for this assignment. (50 pts)

