CIS 4004: Web-Based Information Technology
Spring 2019

Project Five (100 pts)
Due Sunday March 31, 2019

Instructor : Dr. Mark Llewellyn
markl@cs.ucf.edu

HEC 236, 407-823-2790
Office Hours: M & W: 2:20-3:30pm, 4:30-5:00pm
T & Th: 10:30am-12:00pm

Department of Computer Science
University of Central Florida

Project Five

- This assignment has three main objectives:

  (1) To add media queries to your pages so that the pages will adapt to different types of devices.

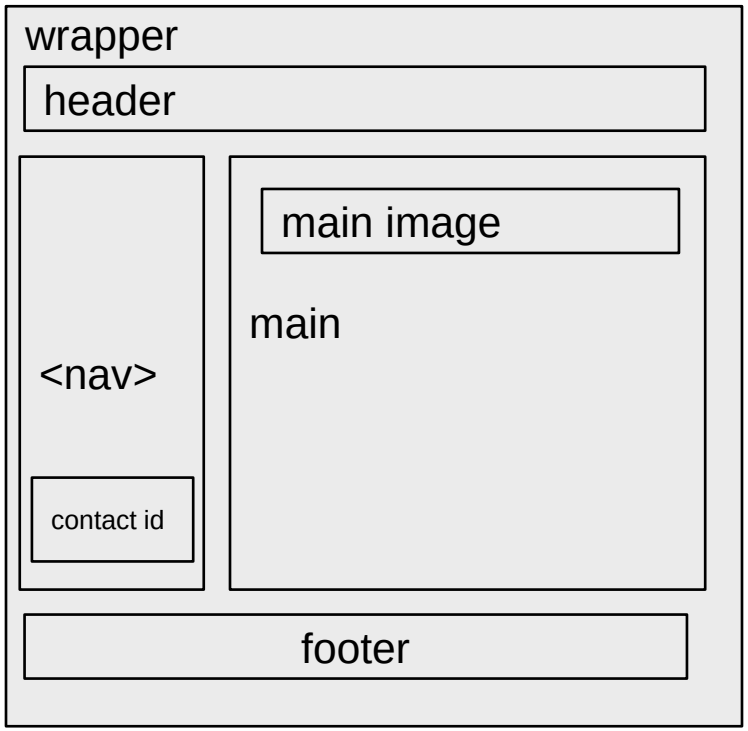
  (2) To add the Reservations page to the site which includes a styled form.

  (3) To add some "fine-tuning" based on the media queries affects.

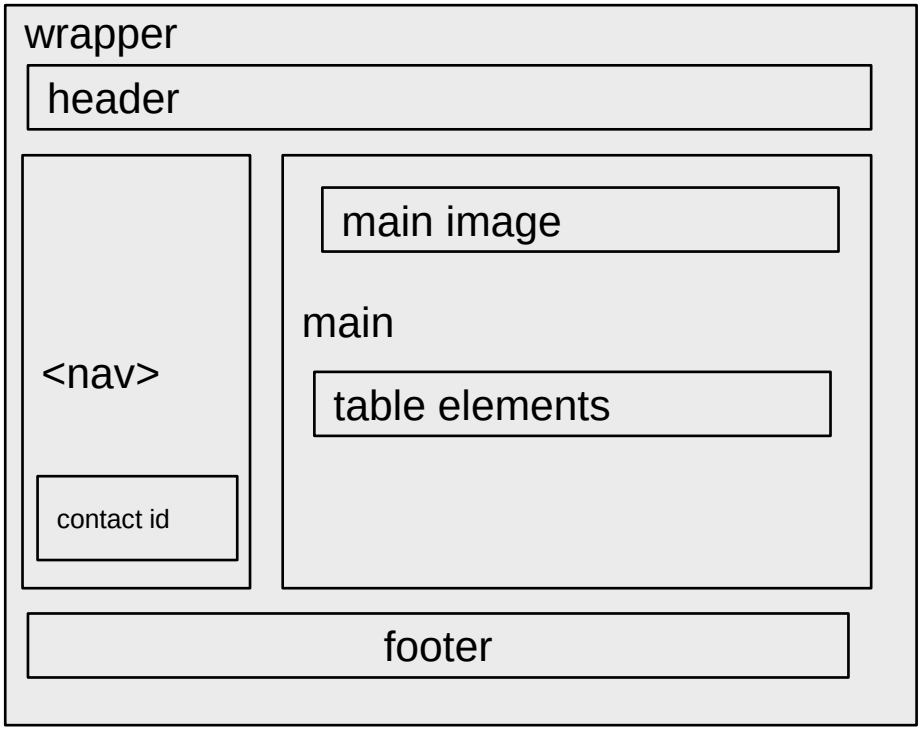
- There are 4 tasks associated with this project.

Project Five

- Begin this assignment with the completed version of Project Four, including the external style sheet and the images folder that you created for that project. Project Four culminated with three webpages and one external style sheet with each page constructed according to the wireframe shown below.



index page



accommodations and activities pages

Project Five: Task 1

- Your first task for Project Five is to modify the `atlantic.css` stylesheet to incorporate media queries to restyle your pages for different types of devices.
- We'll apply the same responsive design criteria to each of the pages in the web site. See (Aside-6) lecture notes for the general discussion on what modifications are necessary on a page to enhance a responsive design.
- We'll configure three separate "views" for our web site. The basic styles that you've already been developing are for the desktop version of the site. In addition, you'll develop media queries for users utilizing tablets and mobile phones.
- We'll assume that any device with a viewport size greater than 64em will be a desktop.
- We'll assume that any device with a viewport size between 37.5em and 64em will be a tablet device.
- We'll assume that any device with a viewport size of 37.5em or less will be a mobile phone.

Project Five: Task 1

- For the tablet version of the web pages (`max-width: 64em`) assume the following CSS properties:
  - For `<body>` set margin to 0.
  - For the wrapper `<div>` set minimum width to 0, width to auto, and margin to 0. (Eliminate the two column effect.)
  - For the `<main>` selector, set left margin to 2px.
  - For `<nav>` selector, display the `<li>` as inline Set the left margin to 0 as well.
  - For navigation list items, use a descendant selector to configure `<li>` elements within the `<nav>` to set inline display, 0.25em top and bottom padding, and 0.75em left and right padding.
  - For the image id selectors, set left margin to 0, set height to 200 pixels.
  - You may need to alter additional CSS items to achieve a proper look.

Project Five: Task 1

- For the mobile phone version of the web pages (`max-width: 37.5em`) assume the following CSS properties:
  - For `<header>` selector set top padding to 1em.
  - For the `<main>` selector, set top and bottom padding to 0.1em, left and right padding to 1em, and font size to 90%.
  - For `<h1>` selector, set the font size to 1.5em.
  - For navigation list items, use a descendant selector to configure `<li>` elements within the `<nav>` to set block display, 0 margin, and a 2 pixel solid dark (#FFE4C4) bottom border.
  - For navigation hyperlinks, use a descendant selector to configure the elements within the `<nav>` to set block display. (This will give the user a larger area to tap when selecting a hyperlink.)
  - For the image id selectors, do not display the image. Set background-image property to none and height to 0.
  - For `<table>` selector, do not display the table.

Desktop version

Atlantic Trails Resort

- Home
- Accommodations
- Activities
- Reservations
- Entertainment Schedule

Atlantic Trails Resort
1210 Atlantic Trails Way
Andover, Maine 04226

888-555-5555

Enjoy Nature in Luxury

Atlantic Trails Resort offers a special lodging experience on the rugged Atlantic 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

Copyright © 2019 Atlantic Trails Resort

yourfirstname@yourlastname.com

ComputeLoan | CNT 4714 Ren | Speed Dial | Flexbox Layou | Atlantic Trails | Atlantic Trails

file:///C:/Courses/CIS%204004%20-%20Web%20Based%20Information%20Technology/CIS%204004%20-%20Spring%202019/PR

Atlantic Trails Resort

Tablet version

Home Accommodations Activities Reservations Entertainment Schedule

Enjoy Nature in Luxury

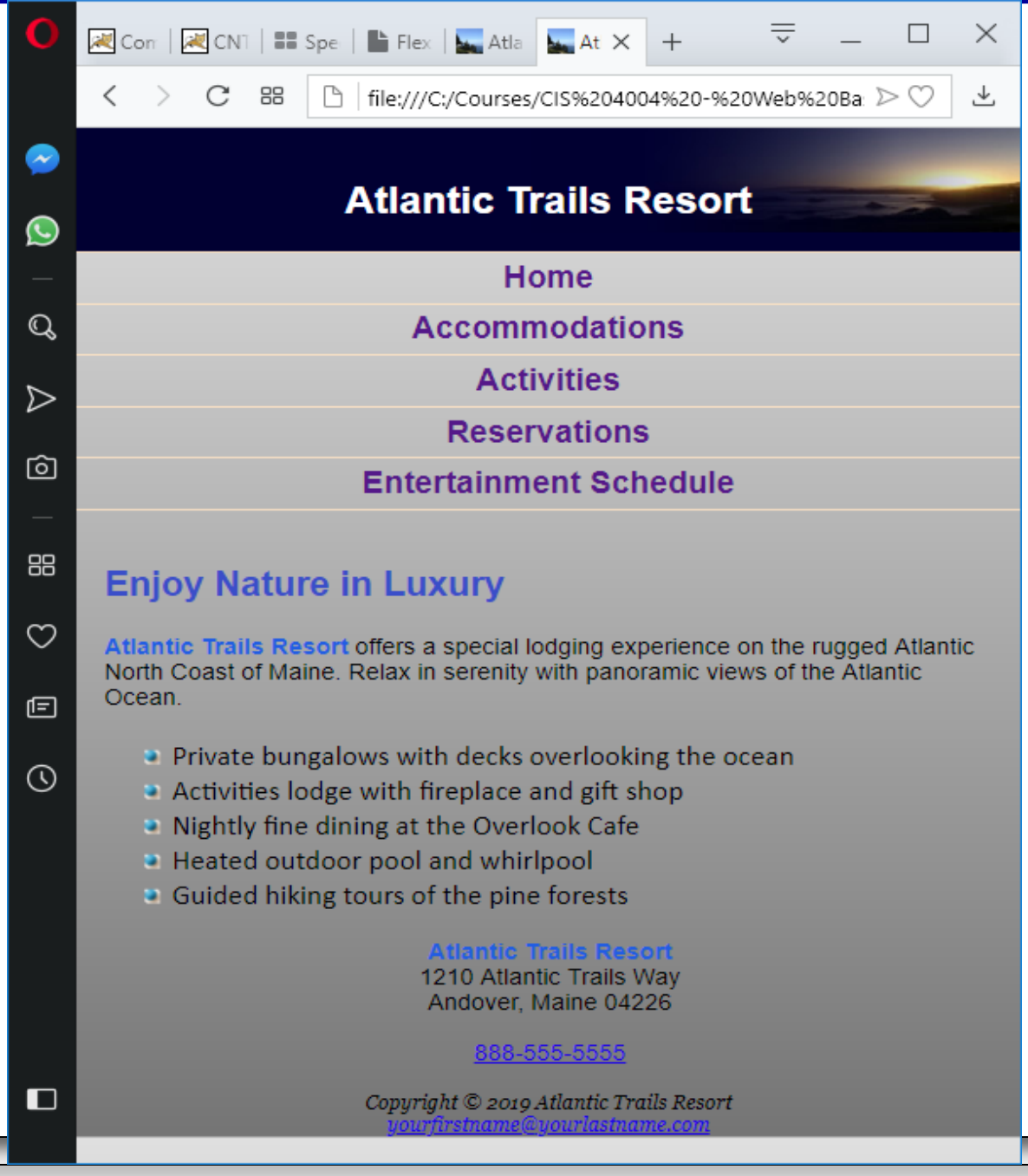
Atlantic Trails Resort offers a special lodging experience on the rugged Atlantic North Coast of Maine. Relax in serenity with panoramic views of the Atlantic Ocean.

- 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 © 2019 Atlantic Trails Resort
yourfirstname@yourlastname.com



Mobile phone version

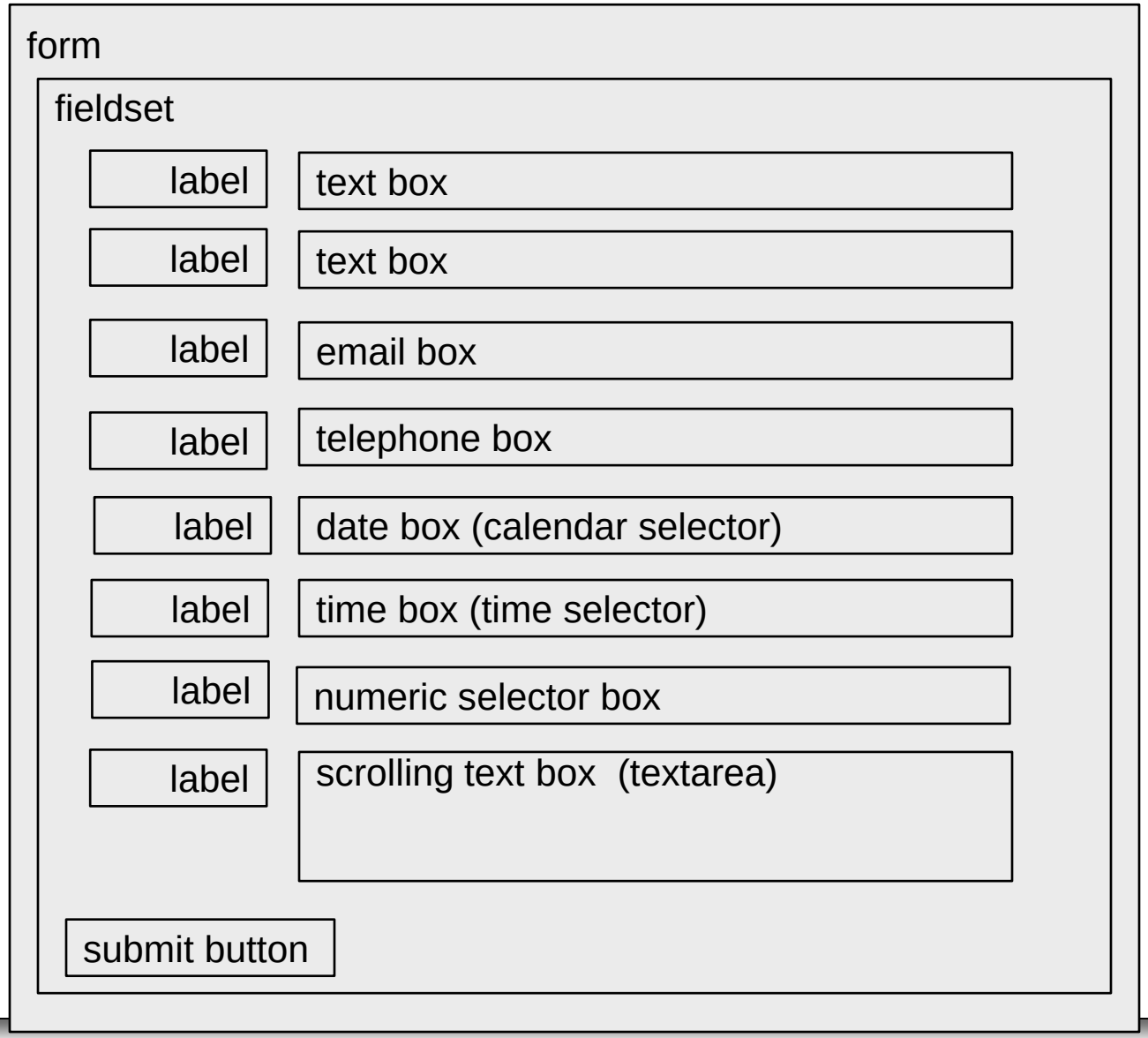
Project Five: Task 2

- Add the following image to your `images` folder inside your Project Five folder.
- Download the image from the WebCourses assignment page into this folder. There is one new image to download with the following name:
  - `harbor1.png`
- You should now have a total of 10 images in your `images` folder.

Project Five: Task 3

- Create the Reservations page `reservations.html` (home) page as follows:
  - Use any of the current pages as the basic template for this page.
  - The navigation and contact information is the same as on any of the other pages in the site.
  - The harbor1.png image should be used in the left column of this page.
  - The main content of the page consists of an `<h2>, <h3>, <p>,` and a `<form>` element.
  - The form element will contain the elements shown on the next page.

Project Five: Task 3



Project Five: Task 3

- Notice in the wireframe the various types of input fields that the form contains. In addition the following will apply to this form:
  - Notice the fields in the form that are required (designated by asterisk in label).
  - The first input area (user first name) has autofocus set.
  - The email field, phone number field, reservation date, time of arrival, and number of guests are all special type input fields, be sure to use the correct type for each.
  - All labels are right justified.
  - The submit button is styled. (Hint: use an attribute value selector.)
  - The desktop and tablet versions of the reservations page are the same. However, the mobile version is slightly different. These versions are shown on the next three slides.

Desktop version

Atlantic Trails Resort

- Home
- Accommodations
- Activities
- Reservations
- Entertainment Schedule

Atlantic Trails Resort
1210 Atlantic Trails Way
Andover, Maine 04226

888-555-5555

Reservations at Atlantic Trails Resort

Contact Us Today To Plan Your Next Vacation

Required fields are marked with an asterisk *

*First Name:

*Last Name:

*E-mail:

Phone:

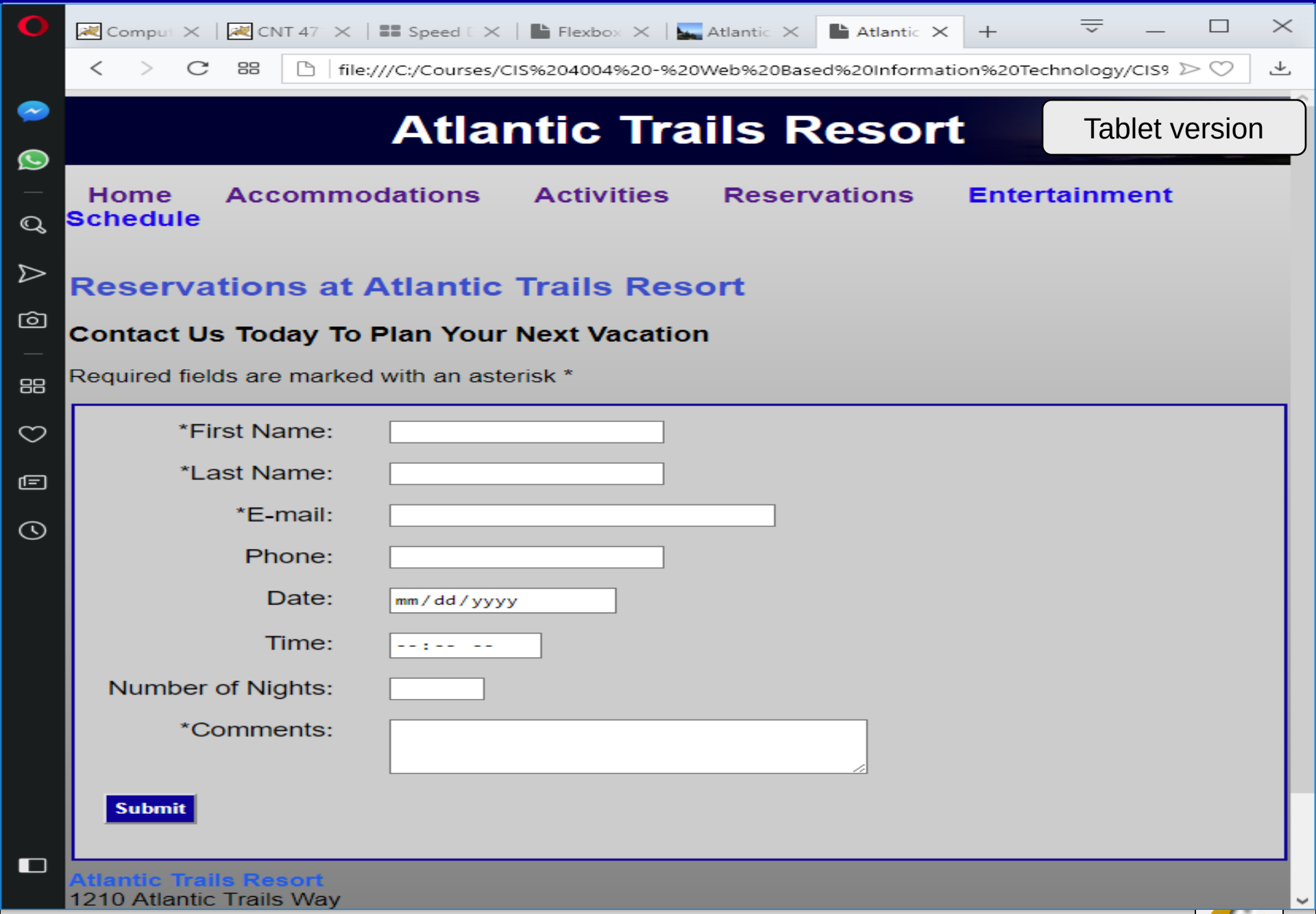
Date: mm/dd/yyyy

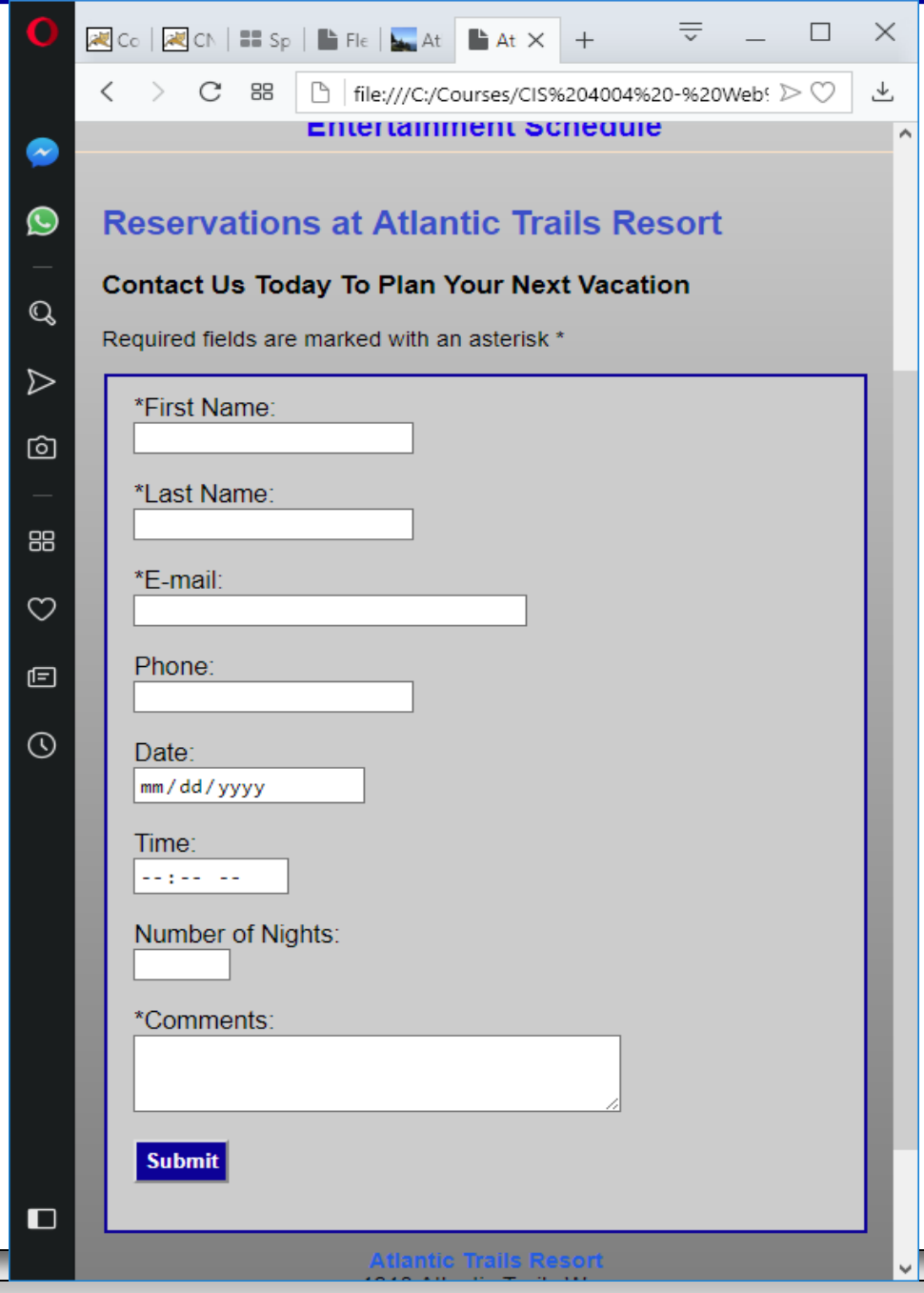
Time: --:-- --

Number of Nights:

*Comments:

Submit


Atlantic Trails Resort
Tablet version
Home
Accommodations
Activities
Reservations
Entertainment
Schedule
Reservations at Atlantic Trails Resort
Contact Us Today To Plan Your Next Vacation
Required fields are marked with an asterisk *
*First Name:
*Last Name:
*E-mail:
Phone:
Date:
mm/dd/yyyy
Time:
--:-- --
Number of Nights:
*Comments:
Submit
Atlantic Trails Resort
1210 Atlantic Trails Way



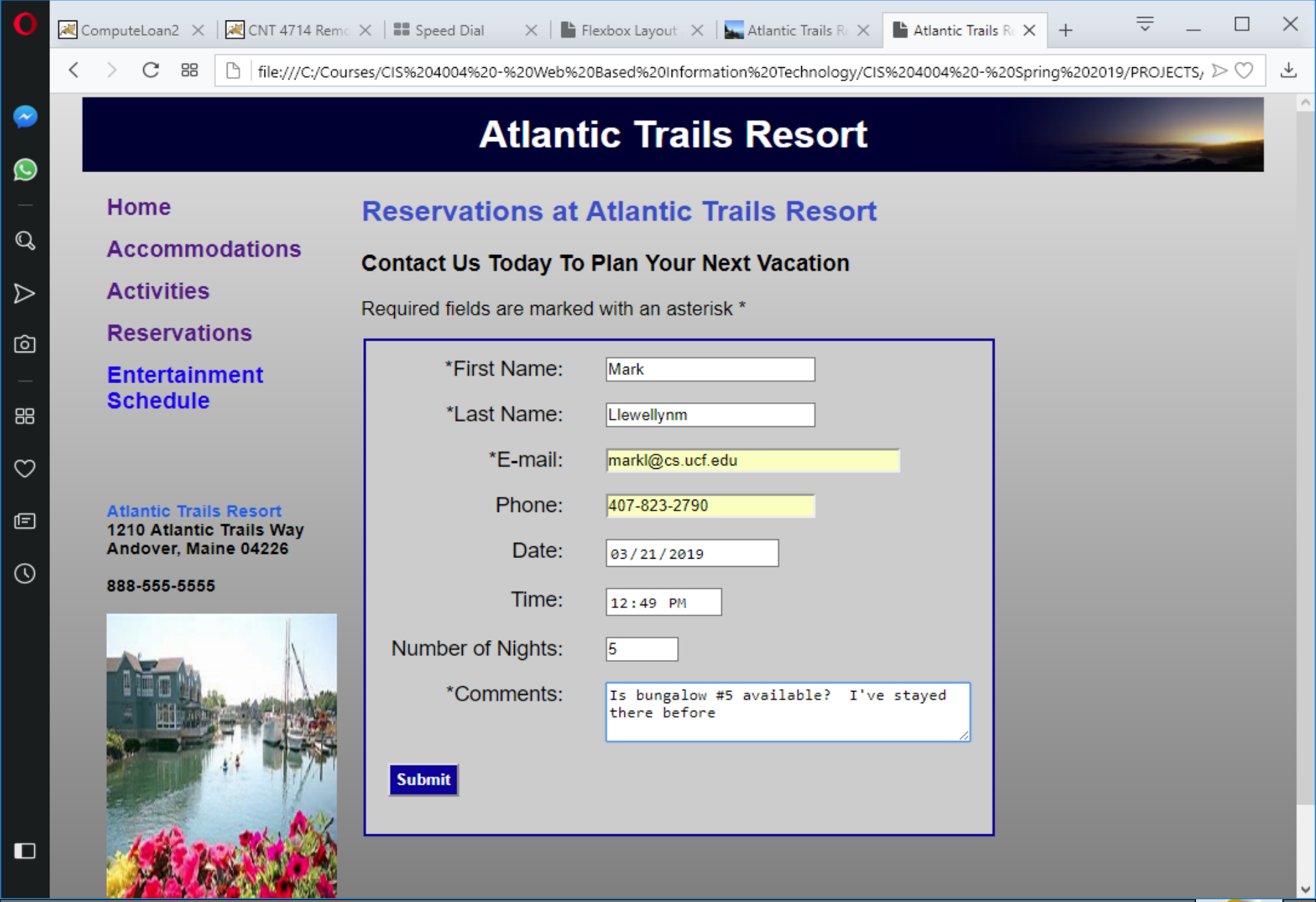
Mobile phone version

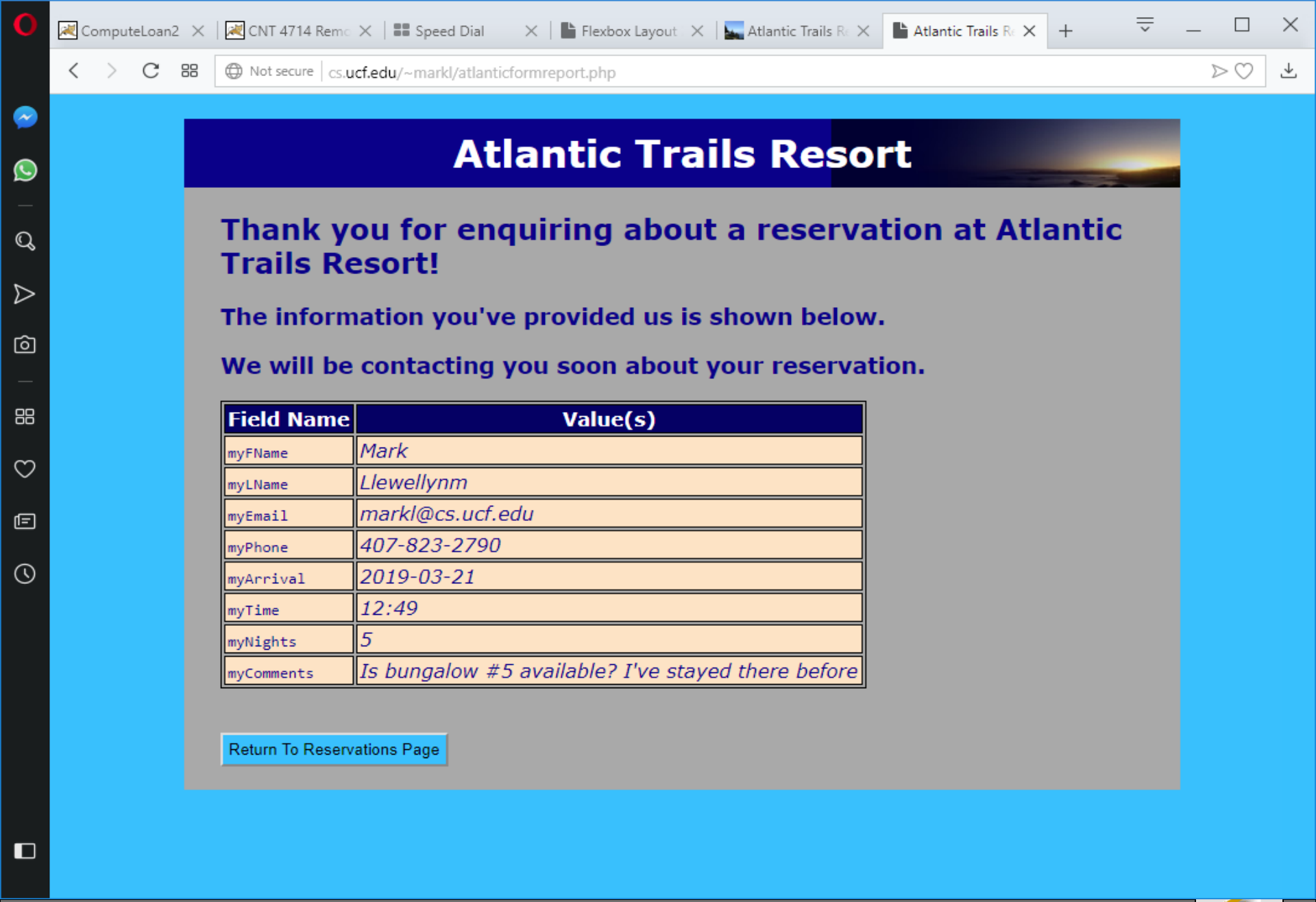
Project Five: Task 3

- The action associated with the form will call a PHP script which is residing on my public page on one of the Computer Science department servers (Monroe).
- While testing your form, you can simply set the action attribute of the form to "#", which will not activate any script.
- When your form is complete, change the action attribute of the form to:

  http://cs.ucf.edu/~markl/atlanticformreport.php

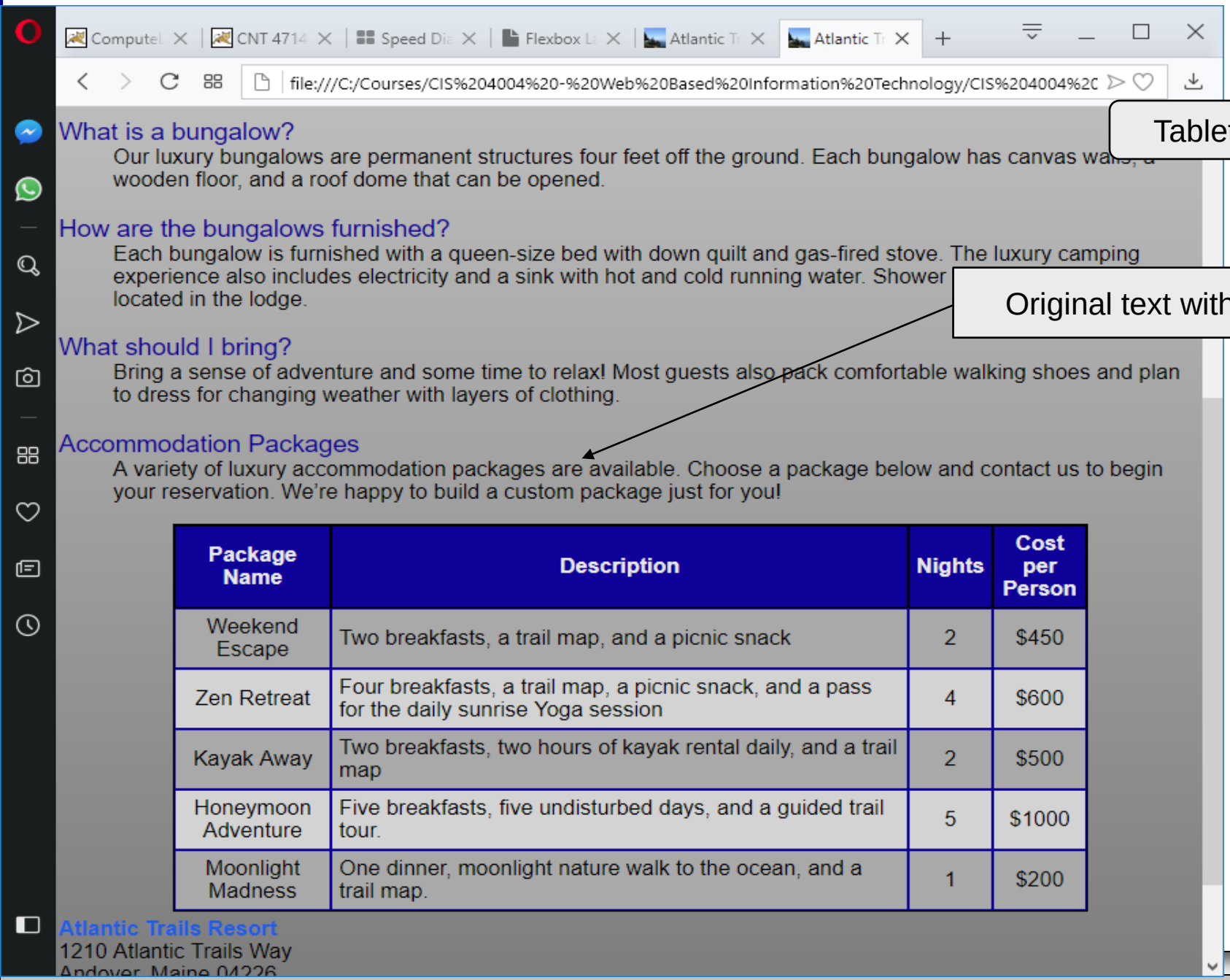
- This PHP script will simply read the information entered into the form and return the values in a table as shown on the next two slides. You do not need to do anything with the PHP script nor the styling for this page.

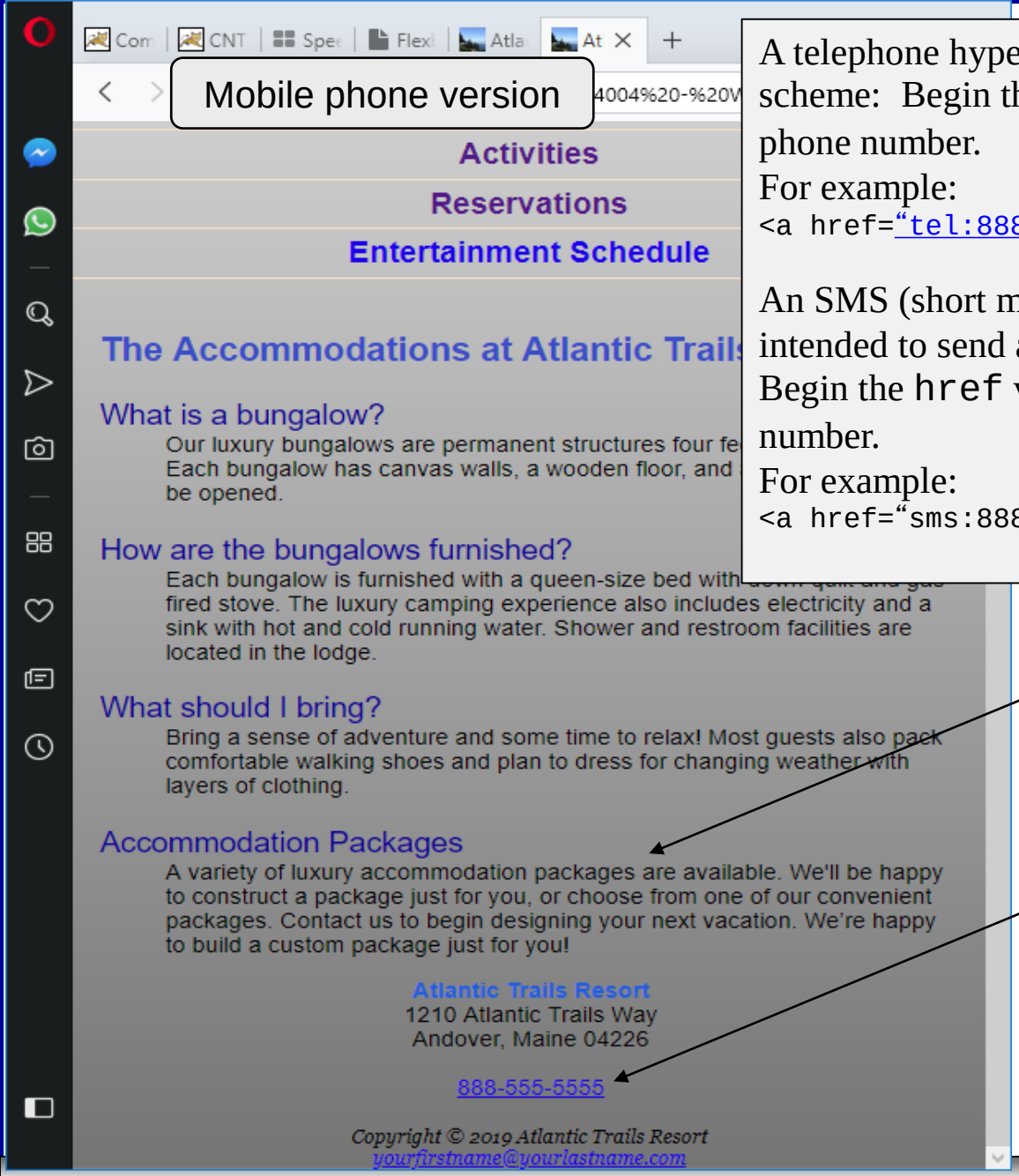

ComputeLoan2
CNT 4714 Remc
Speed Dial
Flexbox Layout
Atlantic Trails Re
Atlantic Trails Re
file:///C:/Courses/CIS%204004%20-%20Web%20Based%20Information%20Technology/CIS%204004%20-%20Spring%202019/PROJECTS/
Atlantic Trails Resort
Home
Accommodations
Activities
Reservations
Entertainment Schedule
Reservations at Atlantic Trails Resort
Contact Us Today To Plan Your Next Vacation
Required fields are marked with an asterisk *
*First Name: Mark
*Last Name: Llewellynm
*E-mail: markl@cs.ucf.edu
Phone: 407-823-2790
Date: 03/21/2019
Time: 12:49 PM
Number of Nights: 5
*Comments: Is bungalow #5 available? I've stayed there before
Submit
Atlantic Trails Resort
1210 Atlantic Trails Way
Andover, Maine 04226
888-555-5555


ComputeLoan2
CNT 4714 Remc
Speed Dial
Flexbox Layout
Atlantic Trails R
Atlantic Trails R
Not secure
cs.ucf.edu/~markl/atlanticformreport.php
Atlantic Trails Resort
Thank you for enquiring about a reservation at Atlantic Trails Resort!
The information you've provided us is shown below.
We will be contacting you soon about your reservation.
Field Name
Value(s)
myFName
Mark
myLName
Llewellynm
myEmail
markl@cs.ucf.edu
myPhone
407-823-2790
myArrival
2019-03-21
myTime
12:49
myNights
5
myComments
Is bungalow #5 available? I've stayed there before
Return To Reservations Page

Project Five: Task 4

- The next task for this project is to tweak the various pages based on the device being used.
- You've modified the display characteristics using media queries, but some of the content is now not correct. For example, the tables no longer display on the mobile version, so referencing them in the text is not correct. Those references need to be removed.
- We'll do this by displaying alternate text in the mobile versions of the pages. The same will be true for the phone number in the contact information which is not displayed as a link in either the desktop or tablet versions but should be a link in the mobile version.
- The next few pages illustrate the necessary changes.


Tablet version
Original text with table
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 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.
Accommodation Packages
A variety of luxury accommodation 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
Atlantic Trails Resort
1210 Atlantic Trails Way



A telephone hyperlink is configured using a telephone scheme: Begin the `href` value with `tel:` followed by the phone number.

For example:

```
<a href="tel:888-111-2222">Voice 888-111-2222</a>
```

An SMS (short message service) scheme hyperlink is intended to send a text message can be configured similarly: Begin the `href` value with `sms:` followed by the phone number.

For example:

```
<a href="sms:888-111-2222"> Text 888-111-2222</a>
```

Alternate text displayed

Phone number displayed as a link

Tablet version

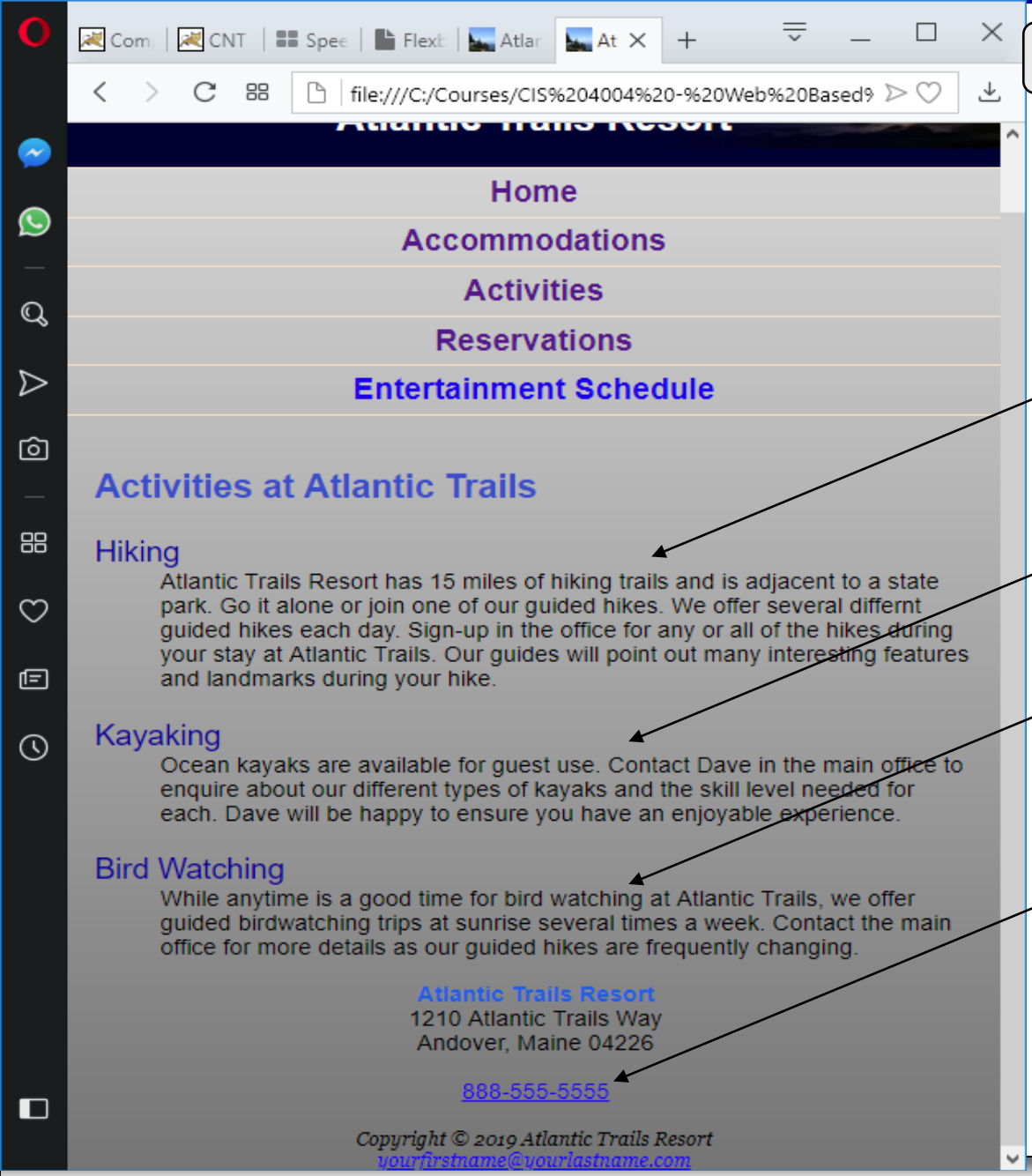
Home Accommodations Activities Reservations Entertainment Schedule

Activities at Atlantic Trails

Hiking

Atlantic Trails Resort has 15 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 or Stephanie or Heidi	3 hours
9:30 am	12 mile hike in the state park and along the coast. Transportation leaves from main office.		6 hours
1:00 pm	6 mile hike over the full trail and the beach head.	Stephanie or	4.5



Mobile phone version

Alternate text displayed

Alternate text displayed

Alternate text displayed

Phone number displayed as a link

What To Turn In

Place all of the deliverables for this assignment into a folder named Project5. The deliverables for this assignment are to be submitted via WebCourses no later than 11:59pm Sunday March 31, 2019 are:

1. The four valid HTML5 documents containing the semantically correct markup for the index/home, accommodations, activities, and reservations pages (40 pts – 10pts for each page).
2. A folder named `images` containing the ten images for this project. (5 pts)
3. A document containing screen captures for HTML5 validations (all four passing!) (8 pts – 2pts for each valid page).
4. A valid CSS stylesheet named `atlantic.css`, with styles defined as outlined in this document. (30 pts).
5. A document containing a screen capture of the validation of the stylesheet (5 pts).
6. Screenshots of a browser rendering of each of your four pages. Provide a screenshot for each page in desktop, tablet, and phone versions (12 pts= 1 pts for each page.)