

CIS 4004: Web-Based Information Technology Fall 2018

Project Six (150 pts)
Due Friday November 30, 2018

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

Department of Computer Science
University of Central Florida



Project Six

This assignment has four main objectives:

1. To give you some practice adding forms to your web pages.
2. Basic processing of form data.
3. Add JavaScript functionality to your website with both native JavaScript and jQuery.
4. Add video and audio to your website.

There are 4 tasks associated with this project.

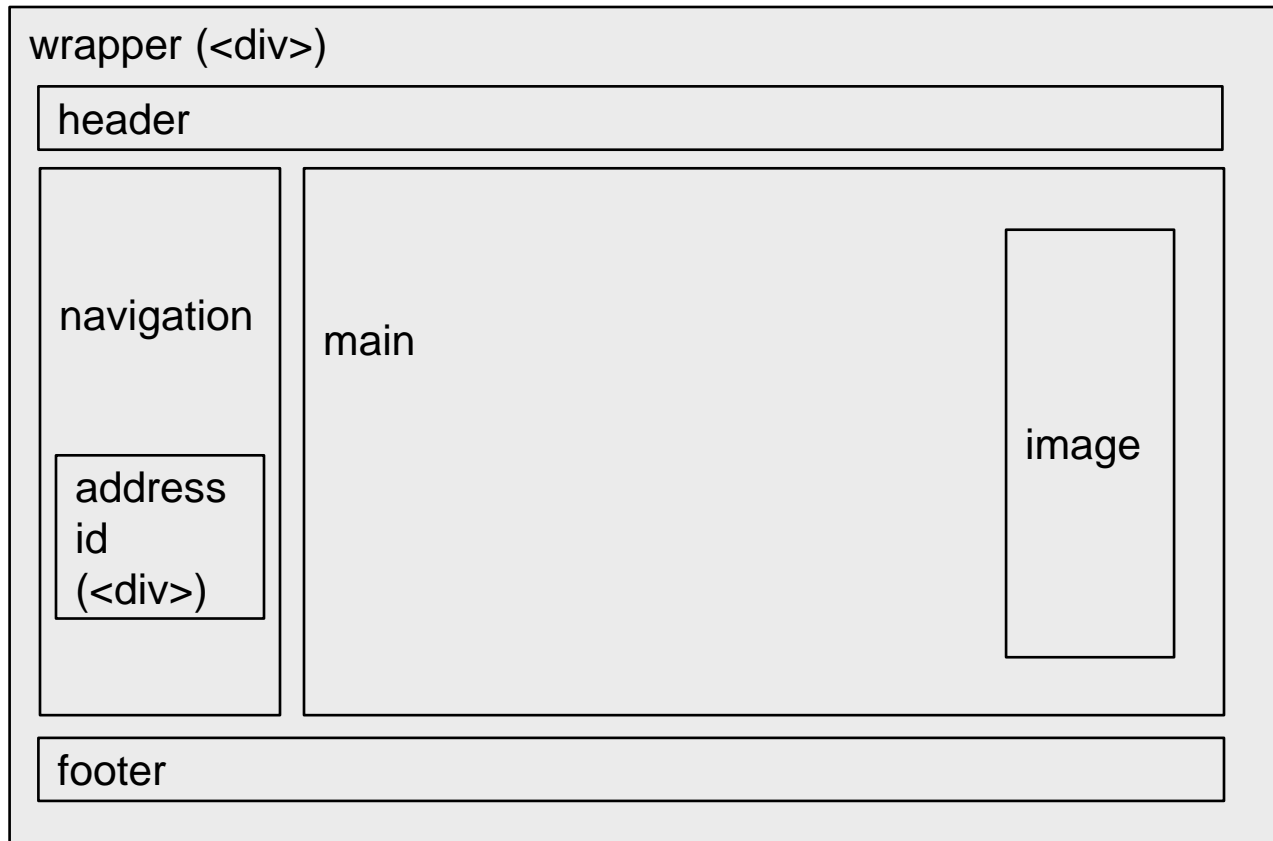


Project Six

- Begin this assignment with the completed version of Project Five, including the external style sheet and the images folder that you created for that project. Project Five culminated with two webpages and one external style sheet with pages constructed according to the wireframes shown on the next two pages (desktop versions).



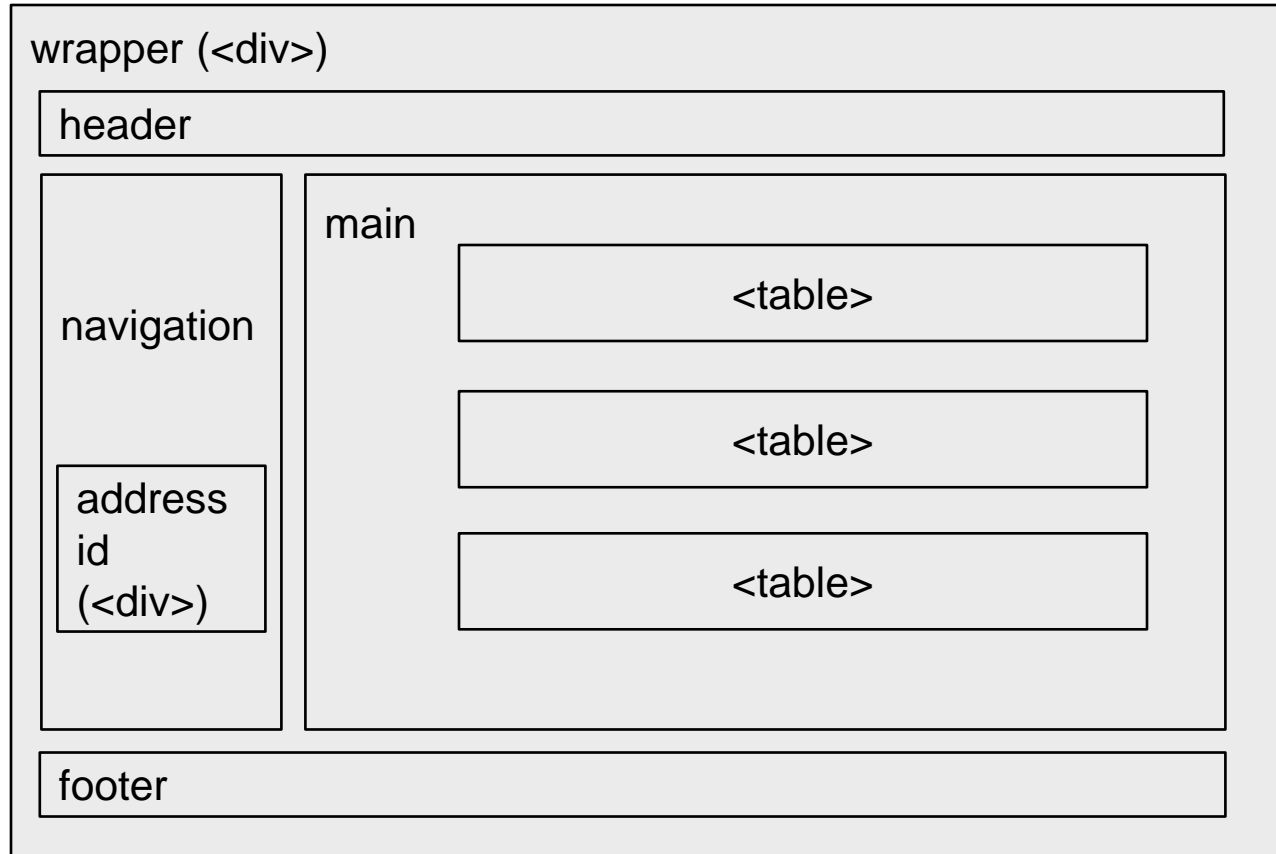
Project Six



Main (index) page



Project Six

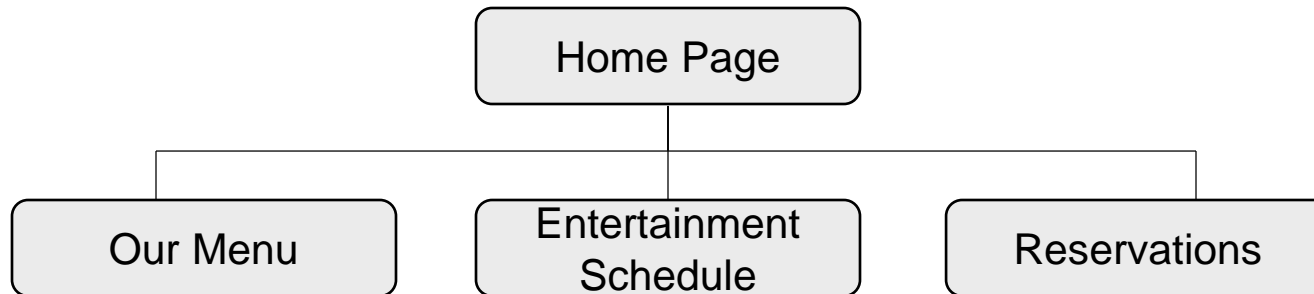


Menu page



Project Six

- Recall our original wireframe for the overall website project (shown below).



- In this project you will add the Entertainment Schedule and Reservations page to the existing web site. The new Reservations page will consist of a CSS styled form and utilize the same theme as the existing pages. The Entertainment Page will list upcoming events at the Bistro and include audio and video snippets of the scheduled performers.



Project Six

- The Reservations page will not feature the large image that appears on the Index page, but the bulk of the styling will be the same as for the Index page, so you can use the Index page as the starting point for your new Reservations page.
- The wire frame (desktop version) for the form on the Reservations page is shown on the next page.
- The Reservations and Entertainment pages will also have tablet and mobile phone versions using the same media queries you created in Project Five. The mobile version of the Reservation page has a slight modification to configure (more later).



Project Six

form

fieldset

label	text box
label	text box
label	email box
label	telephone box
label	date box (calendar selector)
label	time box (time selector)
label	numeric selector box
label	scrolling text box (textarea)

submit button

Reservations
form wire
frame



Desktop version



The Lighthouse Bistro

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

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

Reservations at The Lighthouse Bistro

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

*First Name:

*Last Name:

*E-mail:

Phone:

Date:

Time:

Number of Guests:

*Comments:

Message limit 64 characters

Copyright © 2018 The Lighthouse Bistro
yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 14:54:33 GMT-0500 (Eastern Standard Time)



Project Six: Task 1

- Your first task for Project Six is to create the Reservations page with the form as shown on the previous page.
- 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 tablet version of the reservations page does not affect the form. However, the mobile version is slightly different. These two versions are shown on the next two slides.





The Lighthouse Bistro

Tablet version

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

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

Reservations at The Lighthouse Bistro

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

*First Name:

*Last Name:

*E-mail:

Phone:

Date:

Time:

Number of Guests:

*Comments:

Message limit 64 characters

Copyright © 2018 The Lighthouse Bistro
yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 14:54:33 GMT-0500 (Eastern Standard Time)



Project Six: Task 2

- Your second task for Project Six is to link the form that you created to the following 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/bistroformreport.php>

- This PHP script is residing on one of the Computer Science department servers and 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.





The Lighthouse Bistro

User enters information into the form.

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

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

Reservations at The Lighthouse Bistro

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

*First Name:

*Last Name:

*E-mail:

Phone:

Date:

Time:

Number of Guests:

*Comments:

34 of 64 characters left

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

Today is: Thu Nov 08 2018 14:54:33 GMT-0500 (Eastern Standard Time)



The Lighthouse Bistro

Thank you for enquiring about a reservation at The Lighthouse Bistro!

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	Llewellyn
myEmail	markl@cs.ucf.edu
myPhone	407-823-2790
myDate	2018-11-17
myTime	18:45
myGuests	2
myComments	I'd like table 27 if possible.

[Return To Reservations Page](#)

PHP script on server returns the values that the user entered



Project Six: Task 3

- Your third task for Project Six is to create an external JavaScript file that will contain the JavaScript and jQuery that will provide the functionality described below.
 1. Write a native JavaScript function (native JavaScript not jQuery) that is invoked on each page in your website that displays the current date and time below your name in the footer area of each page.
 2. Write a JavaScript function using jQuery (not native JavaScript) to provide an alternate color scheme for table cells when the user's mouse hovers over a table cell. The alternate color scheme should not be applied to any element in the header row of a table. We only have tables in the menu page of our website.
 3. Write the native JavaScript function (not jQuery) that displays the number of characters the user has left to type in the Comments box on the reservation form.
- The functionality of each of these functions is shown on the following pages (I'll also demonstrate in class).



Project Six: Task 3

- All functionality from the previous projects should carry through into this project, meaning that the media queries should still apply to each page.
- You can use a locally hosted version of jQuery for development purposes, but when you submit your assignment documents use the Goggle CDN. Use the snippet below to link to this CDN:

<http://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js>



The menu page when user's mouse is not hovering over a row in the table.
The default view.



The Lighthouse Bistro

[Home](#)





[Our Menu](#)

[Entertainment Schedule](#)


[Make Reservations](#)

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

Some of Our Coffees

Coffee	Description	Price	Image
Just Java	The regular house blend, decaffeinated coffee, or the 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	
Espresso	Our house blend espresso - the best!	Single \$5.00, Double \$7.50	

A Selection of Some of Our Teas

Tea	Description	Price	Image
Breakfast Teas	Darjeeling, English Breakfast, Queen Anne, Green tea with lemon	Endless cup \$2.00	



The menu page when user's mouse is placed within the second column cell of the second data row of the first table. When the mouse moves out of this cell, the default view will be restored.


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

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

Some of Our Coffees

Coffee	Description	Price	Image
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Espresso	Our house blend espresso - the best!	Single \$5.00, Double \$7.50	

A Selection of Some of Our Teas

Tea	Description	Price	Image
Breakfast Teas	Darjeeling, English Breakfast, Queen Anne, Green tea with lemon	Endless cup \$2.00	





The Lighthouse Bistro

Home

Date and time are displayed at the bottom of the footer on every page.

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

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 built 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
- ❏ 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

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yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 15:26:09 GMT-0500 (Eastern Standard Time)



Number of characters available in the Comments box. It is a 2 row x 32 column box, so 64 characters initially. This line is created and modified by JavaScript. Other than a placeholder in the markup for the JavaScript to target, there is nothing in the markup.

Mackinac City, Michigan
49701
888-555-5555

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

*First Name:
*Last Name:
*E-mail:
Phone:
Date:
Time:
Number of Guests:
*Comments:

Message limit 64 characters

Submit

Copyright © 2018 The Lighthouse Bistro
yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 15:27:11 GMT-0500 (Eastern Standard Time)



After entering 37 characters, the line has been modified to indicate only 27 characters are left. This is done in “real-time” by JavaScript so each “keyup” event within the Comment box will update this line.

Mackinac City, Michigan
49701
888-555-5555

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

*First Name:

*Last Name:

*E-mail:

Phone:

Date:

Time:

Number of Guests:

*Comments:

27 of 64 characters left

Submit

Copyright © 2018 The Lighthouse Bistro
yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 15:27:11 GMT-0500 (Eastern Standard Time)



Our Menu

Entertainment Schedule

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

User has entered 64
characters into the
Comments box. Zero
characters are now
available.

127 Lighthouse Road
Mackinac City, Michigan
49701
888-555-5555

*First Name:

*Last Name:

*E-mail:

Phone:

Date:

Time:

Number of Guests:

*Comments:

0 of 64 characters left

Submit

Copyright © 2018 The Lighthouse Bistro

yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 15:27:11 GMT-0500 (Eastern Standard Time)



Our Menu

Contact Us Today To Make Your Dining Reservation!

Required fields are marked with an asterisk *

User attempts to enter a 65th character. It will not be accepted into the textarea due to its 64 character restriction and the JavaScript function gets a bit more emphatic.

Mackinac City, Michigan
49701
888-555-5555

*First Name:

*Last Name:

*E-mail:

Phone:

Date:

Time:

Number of Guests:

*Comments:

0 of 64 characters left

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yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 15:27:11 GMT-0500 (Eastern Standard Time)



Project Six: Task 4

- The fourth and final task in this project is to build the Entertainment Schedule page. This page also follows the same theme as the other pages in the website.
- This page is intended to provide a preview, for guests of the bistro, of upcoming entertainment.
- I've added two additional images to the images folder for the project and two different audio files, using different formats, to be used for this page. As of yet, I have not found a good video file for this group, but will continue searching and we may add video as well. I will cover audio/video techniques in class, so unless you already know how to do this – save this part for last.
- The Entertainment Schedule page will look like that shown on the next slide when you finish it.





The Lighthouse Bistro

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

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

The Lighthouse Bistro Entertainment Schedule

We have some very special concerts coming up next month. You won't want to miss these. Schedule your reservations now. Each concert begins at 8pm and will run approximately 2 hours in length.

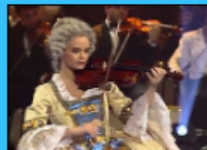
December 1st - 10th - Nightly



Rondo Veneziano - Baroque period music. Fascinating period costumes. Listen to Incontro.

▶ 0:00 / 2:25

December 15th - 20th - Nightly



Rondo Veneziano - Group2 - The second touring group of this chamber orchestra. Incredible music. Listen to Pulcinella.

▶ 0:00 / 4:00

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yourfirstname@yourlastname.com

Today is: Thu Nov 08 2018 16:17:38 GMT-0500 (Eastern Standard Time)



What To Turn In

Place all of the deliverables for this assignment into a folder named Project6. The deliverables for this assignment are to be submitted via WebCourses no later than 11:59pm Friday November 30, 2018 (the last day of classes this semester) are:

1. The four valid HTML5 documents containing the semantically correct markup for the index/home, menu, entertainment and reservations pages (40 pts – 10pts for each page).
2. A folder named `images` containing all of the images for this project. (5 pts)
3. A document containing screen captures for HTML5 validations (all four passing!) (20 pts – 5pts for each valid page).
4. A valid CSS stylesheet named `bistro.css`, with styles defined as outlined in this document. (20 pts).
5. A document containing a screen capture of the validation of the stylesheet (5 pts).
6. A screen shot illustrating data submitted via your form (see page 15) (15 pts).
7. Your external JavaScript file with comments. (45 pts).

