At-Home Final Exam Project Directions

CIS233DA – Internet/Web Development Level II

SCENARIO

Greywood Trails Outdoor Adventures offers a wide range of activities for the outdoor enthusiast: hiking, kayaking and whitewater rafting, rock climbing, off-road mountain biking, horseback riding, and fishing. They have also recently added a series of wilderness survival classes.

Greywood would like a new Web site to showcase all the activities they have to offer, allow people to request additional information and contact them from the Web site, and also have an online store where people can purchase items like hiking accessories and souvenirs from their General Store.

REQUIREMENTS

This At-Home Final Exam Project (FEP) will give you an opportunity to demonstrate what you have learned in this course. It will cover elements from every lesson with emphasis on your knowledge of and ability to apply the concepts you have learned using HTML5 and CSS to create a Web site that includes (at minimum) the required features and functionality.

This Final Project is based on your ability to build an original Web site design. Remember to keep the viewers in mind, and create a Web site that will encourage them to return to the site or become Greywood Trails customers. This is the time to do your best work and demonstrate your knowledge.

Note: You are **required t**o use a text editor when creating this project. Adobe Brackets is acceptable; however, you **may not** use WYSIWYG editors like SeaMonkey, Dreamweaver, etc.

REQUIRED COMPONENTS AND INFORMATION

Your objective is to create a 5-page Web site for Greywood Trails Outdoor Adventures using (at minimum) the logo source file provided plus your own images, text, and page content to complete your overall Web site design.

The site must meet the following requirements:

1. A Web site with five total pages using HTML5 and CSS standards
2. Completion and submission of the Design Sheet to detail your Web site design plan
3. Use of JavaScript (for an alert message and form field validation)
4. Use of images/graphics using the CSS Float property
5. Use of mouseover effects on navigation links
6. Use of CSS Heading Styles (e.g., H1, H2)
7. Use of background image(s) and color formatting
8. Use of an e-mail mailto link
9. Use of bulleted or numbered lists
10. Use of a formatted table
11. Inclusion of an image gallery similar to the **Hands-On Practice 6.8** exercise (pp. 274-275) of the textbook. Note: the images should reflect the site content, and may be displayed on any page of your choosing.
12. Inclusion of mobile and desktop site coding so mobile displays using a single column and desktop using a two-column format
13. Inclusion of multimedia (display video). Note: You will need to locate an appropriate video based on the site content and your design to display on a page of your choosing.
14. Inclusion of a simple contact form
15. Inclusion of a simple e-commerce shopping cart

16. Inclusion of promotional meta tags for site description and key words
17. Your own page content text created and written at a college level and free from spelling or grammatical errors
18. Web site fully CSS and HTML validated using Unicorn with a validation badge displayed on each HTML page

In addition to the above, in each HTML and CSS file, insert an HTML/CSS comment with the following information:

1. Your first and last names
2. Your MEID #
3. Your course and section (e.g., CIS233DA 12345)

Once you are done building your site, validate your code on each HTML page using the Unicorn Validator at W3C.org. Make any necessary corrections to your HTML and/or CSS files indicated by the validator until your site passes validation. Once fully validated, include a validation badge at the bottom of each HTML page with a link to the validation results page indicating that your site has valid HTML and valid CSS.

When submitting your final project for grading, ensure all Web site files are in your submitted zip file. Be sure to preview and test your site in a Web browser to ensure it works. Submit your Final Exam Project zip file to your instructor as directed in the lesson.

STYLE AND DESIGN

Create a folder called "{Your Name} Outdoor," and place in it all necessary HTML files, CSS files, images, and any other file types required to display your Web site properly in a Web browser.

Your five Web site pages for the Greywood Trails Outdoor Adventures site will be as follows:

1. Home
2. Activities
3. Contact Us
4. General Store
5. Design

Your Web site CSS file for your mobile and desktop display coding should be:

1. outdoor.css

The overall site design is up to you; you must **create and submit an original design of your own choosing** based on what you have learned throughout the course. Your design must be mobile-compatible. Your site design must be professional with the design reflecting the features, functionality, and design directions you learned in the course. Review the information in Lesson 4 (if needed) to ensure you apply best practices and principles of Web design to your site as you will be graded on how well your project reflects these.

Your design must include the following:

1. Complete the Design Sheet template (MS Word document) located in the Student Resource Files for your Final Exam Project. Be sure to include this Design Sheet with your final Web site files in the zip file you submit for grading. Acceptable file formats for the Design Sheet are MS Word, Adobe PDF, or JPG.
2. Use an external stylesheet for mobile and desktop browser display and link them appropriately within the HTML pages. The mobile version should display the site in a single column layout.
3. Code a background element using a site background image of your choosing along with an appropriate background color.
4. Use site design colors that complement the logo image given to you within the zip file.
5. Apply appropriate font styling throughout the site.
6. Utilize CSS layout and design modeling so your site has a header, footer, navigation, and content areas. Apply appropriate styling to each area including, but not limited to, padding, margins, font styling, width/height, and minimum width/height.

7. Place the logo image within the header area of the pages using the most appropriate method. Apply appropriate height, padding, and margins to fit with the design.
8. Use an unordered list for the navigation without displaying the bullet. Style with appropriate font and colors. Apply suitable hyperlink states to the navigation, which must remove the hyperlink underline.
9. Ensure any symbols, such as the copyright symbol, use the correct HTML coding to pass validation.
10. Apply appropriate formatting to all site images (e.g., padding/margins, no border if hyperlinked, floats, etc.).
11. Apply proper styling to the table including, but not limited to, width, padding, margins, borders, table headers, and cells.
12. Format the form labels, inputs, and text areas appropriately including, but not limited to width, text alignment, padding, display, and margins.
13. Be sure your form and shopping cart use the echo form action from the textbook and regular lessons, and that they function properly with all fields returning entered and correct values.

RESOURCES

Within the zip file located in the online lesson, you will find the following file to include in your design:

1. The Greywood Trails Outdoor Adventures graphical logo

You will need to locate any other images you use for the site. When searching for images, be sure to look for images you are allowed to use (i.e., are released under a Creative Commons license or are in the public domain).

Note: You **must** insert comments within the HTML (or CSS) giving credit to the original source of the images you use in APA format. You don't need to do this for the images supplied to you in the Student Resource zip File.

TIP: BING image search will allow you to limit the search to only those images in the public domain you can use. This feature is enabled by clicking "filter" in the upper right corner of the browser, then selecting from the options under the License drop down menu.

HOME PAGE

Your Greywood Trails Outdoor Adventures Home page should include the following:

1. Give the page an appropriate title other than Homepage.
2. Include meta tags for a description and 8-10 keywords. (Be creative and consider how a user would search for this site.)
3. Create navigation text links with mouseovers for all pages in the site.
4. Include the following information (that you must create) in the content area:
    a. Create an appropriate heading.
    b. Add 1-2 paragraphs of text under the heading introducing Greywood to site visitors (you can make this information up).
    c. Include the company's address, phone, and hours. Code the page for both mobile and desktop display.
    d. Add any other images you feel are warranted. Be sure to use float properties to optimally display images and text.
5. Create a footer area that includes these elements:
    a. Copyright information
    b. An image icon for at least one social media Web site (e.g., Facebook, Twitter, etc.). The social media icon image should link to the corresponding social media Web site.
    c. An email link to contact the Webmaster. Use your Rio Salado email address MEID@maricopa.edu.
    d. The Validation image showing your site has valid HTML and CSS code
6. Apply HTML comments to the start and end points of each area of your site (header, footer, navigation, etc.).
7. Use your Home page as the starting point to create the other site pages.

ACTIVITIES

Your Greywood Trails Outdoor Adventures Activities page must include the following:

1. Insert appropriate page title and section headings.
2. Include a brief paragraph description highlighting the various activities Greywood offers.
3. Below the paragraph description, create an Activities table using alternating row colors to list at least five (5) activities being offered (get creative!). Each activity should have a name, brief description, and cost.
4. Create an alert message using JavaScript for when the page loads so visitors are presented with a message highlighting a discount offer or some other special notice or promotion for one of Greywood's activities.

CONTACT US

Your Greywood Trails Outdoor Adventures Contact Us page must include the following:

1. Insert appropriate page and/or section headings.
2. Write a paragraph explaining the use of the form to request additional information on an activity or contact Greystone from the Web site.
3. Create a simple contact form under the paragraph text that will collect the above information from site visitors, and submit it the company (e.g., customer name, contact information, and question). Be sure to include all appropriate fields to get information from the visitor. You can use text fields, multi-line textboxes, and/or other types of fields to gather the information. You must include a field for the visitor's email address that has JavaScript validation included to ensure the form will not submit if the field is blank.

   You will not create the actual e-mail in the prototype, but you will need to create the form. The submit button will go to a "Postback script." You will use the "Postback script" to view exactly what data the server receives from your form. This server-side application accepts the data submissions from your form, and echoes the field data back to you. Since this application is not intended to process the form data but bounce it back in a format you can read on screen, the form and the application do not need to match. Whatever fields and field names you put into your form will be echoed back. To use the Postback script, be sure to set the action of your form to point to https://secure.riosalado.edu/cis-course-resources/postscript.aspx using either the "post" or "get" methods. Your code should look like this:

   <form action="https://secure.riosalado.edu/cis-course-resources/postscript.aspx" method="post">

   This will help you know you have set up your form correctly.

GENERAL STORE

Your Greywood Trails Outdoor Adventures General Store page should include the following:

1. A page title.
2. A brief paragraph description for the Greywood Trails Outdoor Adventures General Store and types of products visitors can purchase.
3. A working shopping cart with at least three (3) items for sale. Each item should have an image, description, price, and "add to cart" button. Similar to the contact form "Postback" script, you will use the https://secure.riosalado.edu/cis-course-resources/postscript.aspx for your Pro Shop shopping cart. Your code should look like this:

   <form action="https://secure.riosalado.edu/cis-course-resources/postscript.aspx"

   method="post">

DESIGN

This page is for providing details about **your** design to further illustrate what you have learned throughout the course, and you must include the following:

1. Page content, headings/titles, and images, as appropriate
2. A diagram image created for the wireframe design you used for the Greywood Trails Outdoor Adventures Web site
3. A description of the type of site design you used (e.g., hierarchical, etc.) and why you opted for that design
4. Other design features you chose and why you felt these were appropriate for the site content and your design. These should illustrate your knowledge and practice for Web site design practices, and use either a bulleted or numbered list.