



Web-Based Application Design and Development (ITIS 3135)

Assignment 4 Final Web Application Due 11:59pm – May 5, 2021

This is the culmination of all of your project assignments for the semester. The below requirements are based on previous requirements with some additional requirements including AJAX functionalities, accessibility features and uploading a document detailing how you have met the specifications, how your web application will meet the needs for your stakeholders, and how you have responded to the critiques received from your peers.

Requirements: You will upload a *zip file* with all html, .css, .js and data files (e.g. *.json, *.xml) for your web application on Canvas. Do not include images, videos, or other media in the zipped file. However, upload everything in your web server space and provide the URL to the home page of the working application in the comments section on Canvas. You will include in the *.zip file* a **summery document** as outlined below. You will also submit a **video** presenting your final website as outlined below in an assignment link called "*Final Video Presentation*". All these things will be graded with the **rubric** given to you in the "**Assignment 4 Submission**" link (do check this out). Also please see that the deadline is on Tuesday (Dec 15), and not Tuesday.

1. Minimum Specifications for Website:

Your final project should meet the minimum specifications of each of the previous assignments, and some additional requirements.

- **General HTML/CSS**

- **Entry or Home page** – This page should have a layout using header, main, footer, id and classes. The page should have actual content including the navigation bar. The page should have information about the site including some images. This page should be named *index.html*.
- **Navigation bar** – All pages should have a consistent and working navigation bar. The navigation bar should have links to all the pages you are going to have in your website. The navigation bar should be at the same position on all the pages.
- **3 Oher Pages** – These should have the navigation bar. They can be Product, Informational or Service pages. You must include the content for these pages. You do not have to name this page "Product/Information/Service Page". Choose a name that pertains to your website and the purpose of the page e,g "Testimonials", "About Us".

- **Interactivity:**

- Demonstrated mastery of a variety of user interactions by correctly implementing at a minimum, 2 jQuery plugins and 1 jQuery-UI widget. The correct use of JavaScript to update the content or style of the web page when a specific event occurs.
- The quality of the layout, style and purpose of the interactivity for your specific web application.

- **Ajax**

- Demonstrated mastery of 2 AJAX requests.
- The quality of the layout, style and purpose of the interactivity requests for your specific web application.

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- **Code Design**

- Appropriate method, variable and object names
- Proper indentation
- Good commenting (explains what code is doing, cite sources of code, etc.)
- Well-organized, elegant solution

- **Accessibility**

- Based on the Web Content Accessibility Guidelines (WCAG) 2.) requirements at <https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0> satisfy at least 5 accessibility guidelines consistently across all the webpages of your website.
[For example, you can implement aria-label to provide labels for objects <https://www.w3.org/WAI/WCAG21/Techniques/aria/ARIA6.html>]
Also, refer to the accessibility resources covered in week 7
- List which principles and guidelines you implemented in the summary document

2. Specifications for Summary Document:

This document should have 3 sections:

- a) Meeting the specifications: Describe how your site meets the assignment specifications, particularly what interactive functionality (i.e. jQuery-UI, plugins, source of Ajax requests) you have implemented. Also, list the accessibility principles and guidelines you implemented on your website. This can be a series of bullet points, or one paragraph.
- b) Summarize the feedback you received in your critiques and how you updated your website in response. This can be a set of bullet points or a paragraph or two. If you did not update your website, include your justifications.
- c) A paragraph on how well you think your website will meet the needs of your stakeholders/clients, and your future plans with the website.

3. Create a video for final presentation:

You will be required to create a video for presenting your web application. The video should not be more than 5 mins. You will also be graded on how well you present your website. Make sure to address the following: introduce yourself, present who is your client and what is the purpose of your website, introduces all the webpages- describing its purpose, functionality and interactivity you have implemented, special features you have added, how well you have met the requirement of the client and future plan with the website. Presentation style will also be evaluated.