

First App Project - Part 3 with jQuery

Assignment Goals:

- Use JavaScript coding best practices - variable definition, IIFE for scope, etc.
- Write a JavaScript application object with data and methods.
- Use jQuery to get Ajax data:
 - Show a loading message until data is populated
 - Show an error message if the data could not be loaded
- Ensure the area updated with the JSON data uses ARIA attributes for accessibility
- Use jQuery to create elements and modify the DOM
- Save JSON data to browser storage
- Load JSON data from browser storage
- Clear local data from browser storage
- Use button events to trigger changes to the page

Presentation:

- Show your site published on GitHub. Make sure your site is up and running before the day of class.
 - If your site does not work for the presentation, you will get no more than 50% credit.
- Illustrate your page behavior, showing that your data is stored locally by using the developer tools.
- Show your application object, and walk us through each method.
- Show your HTML, pointing out where the JSON data is loaded and how the ARIA attributes are used.
- Clearly point out and show the new feature that you added since part 2.

GitHub Repository

<https://github.com/htc-ccis2591/first-app/>

This assignment is a continuation of your previous project, so you do not need to fork the repository again. Continue working on the files that you added and committed for part 2. Do not make a new repository. If you want to mark the files that you had submitted for part 2, you can look up how to create a tag on GitHub.

Update with jQuery

Ajax

For this assignment you will use jQuery to get the JSON data from your file. You must include code to show an error message while the data is loading (use a breakpoint if needed to verify this works) and show an error message if the file is not found.

Buttons

Use jQuery to setup the click events for your buttons. These events should use a method in your application object to load, save or clear the data.

DOM Updates

All of the code that builds or modifies your HTML must be converted to jQuery.

Add a New Feature

Add one new feature to your page. It should be something that is distinctly new and different, not just one more piece of data in your existing JSON object. You could add a new form, load more data to a different part of your page, or experiment with something new from jQuery like expand/collapse or transitions on show hide.

Tips

- Be sure to use all of the JavaScript coding best practices that we have discussed.
- Make functions for everything.
- Start with the JSON load, as you need the data from the file to save it to local storage.
- Save the data in a global (to your IIFE) variable.
- Make sure that you write cross-browser code to do the Ajax request as illustrated in the text.
- Be sure to test the use of your buttons in different orders to ensure that they are always working or showing errors correctly, regardless of the order in which they are clicked.