Project 2: Using jQuery To Consume a Web Service

You are required to re-design and implement a new Website for the IST Department - similar to https://ist.rit.edu/indexOld.php. All the data and the content you need for your page is being retrieved from an existing web service data source. A RESTful web service has been made available at http://www.ist.rit.edu/api. It provides access to the content you need for your IST Department website. The content/data you request will be returned as a JSON document.

You will have to know how to request the data from the web service. You are also expected to extend your project with at least 3 jQuery plugins that add functionality to your site.

Note: Your application needs to follow all the good/modern design and programming principles and techniques.

Requirements

1. Write functionality to obtain the content you need for your IST Department website.
   a) All functionality is handled by jQuery
   b) Dynamic creation, animation and form validation implemented using jQuery
   c) The API for the services is available at: http://www.ist.rit.edu/api
2. Professional looking user interface - your application needs to follow all the good/modern design principles and techniques
3. The use of jQuery AJAX to request your data (JSON format) via a proxy server (provided in the starter zip).
4. The use of at least 3 jQuery plugins
   a) Do not randomly pick your plugins. Instead, have the plugins augment your project.
   b) The jQuery Plugin Registry: https://plugins.jquery.com
5. Provide a map interface using a google map library to show where IST Students work. In addition to the required 3 jQuery plugins, using the map library is going to be your 4th jQuery plugin.
6. Include comments in the code to clearly explain functionality. Follow the JSDoc format by doing so: https://jsdoc.app
7. Provide a **ReadMe** file. You will also have to document your solution using the provided *project2-readme.docx* file. For every rubric in the document, if applicable, explain what you did and where to find your features in the code. You will receive 0 if you do not fill in this document.

Grading

If you complete all the above, you will receive a B. A good project (worthy of a B) will have all required elements, implemented correctly and with attention to detail. An excellent project (worthy of an A) will have everything a B project has, plus something extra - evidence that you intend to excel:

- It could be something that we didn't cover in detail in class or even something new.
- Level of complexity
- Your own useful jQuery plugin (http://learn.jquery.com/plugins/basic-plugin-creation).

The extra features need to be discussed and approved by your instructor in order for you to proceed with the implementation.

✔	Tasks	Points	Score
☐	All the available content of the IST Department is retrieved and incorporated into the new website	30	
☐	At least 3 jQuery plugins (maps not counted).	10	
☐	Using a map to show where IST students work	10	
☐	UI elements dynamically created	10	
☐	Form validation & sanitization implemented	10	
☐	Professional looking UI – following all the good web design principles	10	
☐	Comments in the code clearly explain functionality (JSDoc format used: https://jsdoc.app)	10	
	SUBTOTAL:	**90**	
EXTRAS: An excellent project (grade A) will have all of the requirements above PLUS something extra such as those listed below. The extra features (whether they are listed below or not) need to be discussed and approved by your instructor in order for you to proceed with the implementation. You cannot get more than 10 points for this rubric.			
☐	Own written jQuery plugin	10	
☐	Explores an area of code we didn't cover in class (e.g. using a CSS preprocessor, CSS front-end framework, ...)	10	
☐	Extended functionality	10	
	EXTRAS TOTAL:	10	
DEDUCTIONS: A varying amount of points will be deducted for the following: ▪ All functionality is not handled by jQuery ▪ AJAX is not used send requests via the provided proxy server ▪ Other non-acceptable coding practices like not including comments in the code that clearly explaining functionality			
	DEDUCTIONS TOTAL:		
	TOTAL:	100	

Submission

Zip up the entire project (file structure intact, readme file included) and submit it to the appropriate MyCourses Assignments folder. The project root should be named as LastNameFirstNameInitial (e.g. MarasovicK)

DUE: Week 9 Class 2