COMP 1073 - Winter 2021

MODULE FOUR ASSIGNMENT – SUPERCHARGE YOUR APP WITH THE POWER OF APIs

In Module Four, our final learning module for this semester, you learned all about APIs (both browser and third party) and explored what an API is, the general way in which an API works and all the cool things we can do with APIs.

Your Task:

Choose one of your assignments from a previous learning module that you feel could be improved with the integration of an API (i.e. To Do List, Weird Deals Application)

Instructions :

1. After you've selected a previous project to work with, start to improve your project with the **addition of a Browser API** (for ideas, check out - https://developer.mozilla.org/en-US/docs/Web/API). Please note, the DOM API does not count!

2. After successfully integrating a browser API, further improve your app by **integrating a Third Party API** (for ideas and options, check out - https://www.programmableweb.com/category/all/apis)

3. Create a short screencast reviewing your code, any challenges you faced and any successes/wins

4. Ensure that all your HTML, CSS, and JS is well-commented, formatted, and organized.

5. Publish your page on a web server (AWS, Github pages or your own web server)

HELPFUL RESOURCES:

https://developer.mozilla.org/en-US/docs/Web/API
https://www.programmableweb.com/category/all/apis)
https://developer.twitter.com/en/docs
https://developers.google.com/youtube/
https://developers.facebook.com/docs/
https://developer.mozilla.org/en-US/docs/Web/API/Geolocation_API/Using_the_Geolocation_API
https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Drawing_graphics
https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Client-side_storage
https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Video_and_audio_APIs

Project Objectives:

- optimize code for increased functionality, performance, readability, and reusability
- construct a variety of programming structures including variables, constants, arrays, objects, functions, conditionals, and constructors;
- design and build a variety of user interface elements to address specific functional requirements.

Project Assessment:

You will be assessed on the following:

	Missing Something	Getting There	Great Work	Awesomesauce
JavaScript **(3 marks)**	Developer used JS that is not valid, properly structured, formatted or commented. (0 marks)	Developer used JS that is somewhat valid, properly structured, formatted and commented. (1 mark)	Developer used JS that is mostly valid, properly structured, formatted and commented. (2 marks)	Developer used valid, properly structured, formatted and commented JS. (3 marks)
API Integration JavaScript (6 marks)	Developer did not successfully integrate client-side APIs (0 mark)	Developer integrated browser and third-party APIs with some success. APIs selected were somewhat appropriate and helped to enhance the application overall. (2 marks)	Developer successfully integrated appropriate browser and third-party API. APIs selected were somewhat appropriate and helped to enhance the application overall. (4 marks)	Developer successfully integrated appropriate browser and third-party API. APIs were appropriate and enhanced the functionality and overall user experience of the application. (6 marks)
Code Review (1 marks)	No code review provided. (0 marks)	Developer accurately and effectively reviews code with little detail. Success and challenges were not discussed. (0.5 marks)	Developer accurately and effectively reviews code with some detail. Success and challenges were discussed with some detail. (0.75 marks)	Developer accurately and effectively reviews and explains code. Success and challenges were discussed with detail. (1 mark)

Project Due Date:

Section 01 (Thursdays) : Thursday April 15th @ 11:59pm (10%)
Section 02 (Tuesdays) : Tuesday April 13th @ 11:59pm (10%)

Project Weight:

10% of final grade

Submission Details:

Please submit all all code files as a zipped folder on Blackboard , a valid link to your published page and a link to your screencast video.

!important

Please ensure that any work you submit is your own unique work. Work submitted that is found to be not your own unique will be subjected to a grade of 0 and considered to be academic misconduct. Please ensure that you add references to the APIs you included in your project.