IT 4203 Individual Project Milestone #1: JSON

<mark>Fall 2017</mark>

Due Date: **See D2L**

Instruction

First, please create an entry/home page to give an overview of the entire individual project, with the following content at least:

- Title, name, site description, affiliation, etc.
- Course information and link to http://it4203.jackzheng.net
- Project information with a table of contents listing four milestones. Create a link on each milestone name linking to the milestone page in the future once your milestone page is ready.

A number of JSON files about books are provided in this milestone (Table 1). First, use any relevant tools to validate/beautify the content so you can study the content structure. Then, use JavaScript/jQuery to read the data and display it nicely in a webpage. You will design your own page style but keep them clean and organized.

JSON File/Content*	Source	Description	Example real world webpage display
it-ebooks-search.json	http://it-ebooks-api.info/v1/search/modern%20web	This returns a list of books as a search result in the JSON format.	http://it-ebooks.org/search/?q=modern+web
google-books-book.json	https://www.googleapis.com/books/v1/volumes/Wfan6L9RGgYC	This returns a single book's data in the JSON format.	https://books.google.com/books?id=Wfan6L9RGgYC
google-books-search.json	https://www.googleapis.com/books/v1/volumes?q=modern%20web	This returns a list of books in the JSON format.	http://cse.google.com/cse?cx=013493258683483688568:xhfa6ctm1ki&q=web#gsc.tab=0&gsc.q=modern%20web

Generally, there are two types of data. One type is for a list of books (as a result of a search), which contains data for multiple books. Please use a loop structure in the code to display all books. The other type is just for one book, which contains all information about one book. You need to design the page to display them properly.

[Challenge/Bonus – 1 point]

Apply the same requirements to the following data source.
https://openlibrary.org/api/books?bibkeys=ISBN:0201558025,LCCN:93005405&format=json&jscmd=data

Analyze the file structure and display the data in a designed webpage. Do not change the JSON content. The API documentation can be found at https://openlibrary.org/developers/api

Other requirements

- Read as much content as possible from the files and display them nicely on the web page.
- We don't focus on fancy designs but all web pages should look clean and organized, like http://it-ebooks.org/search/?q=modern+web
- Images and URLs should be displayed or function correctly.

- Design one webpage for each file. Embed all scripts and styles within the page.
- Do NOT use any other library or framework other than jQuery.
- All web pages should be able to be accessed from your public website lively.

Submission

Submit the following to D2L:

1. Compress all source code files into a .zip file.
2. A report in PDF format, including:
   - Report overview
   - The URL to your project and/or milestone #1 web pages.
   - Screenshots with explanations. Take a screenshot of each webpage displayed in the browser (only the top part of the page if the page is too long). Make sure your screenshots are clearly shown and without cropping.

Grading guide

Your grade is determined on:

- How much you have satisfied the requirements specified in the instruction, and your creativity
- Web page design quality
- Well-formed and clean code. You should not use any wizard to generate the code, nor should you copy and paste codes from other sources without cleaning it.
- Following the submission requirements

Rubric:

Score	Summary	Rating Description
10	Outstanding work; beyond expectation.	Correctly read content from all JSON content. Excellent and clean web page design. Well-formed and clean code; easy to read. Excellence report with clear original screenshots.
8-9	Good work; meet expectations	Correctly read content from most files, with possible minor mistakes or missing elements. Good web page design (neat and clean). Well-formed and clean code; easy to read. Excellence report with clear original screenshots.
6-7	Adequate work;	Correctly read content from at least the first two files in the table; have some mistakes or missing items. Simple web page design (missing image or links, or incorrectly displayed) Have some problems of organizing code; difficult to read. Unorganized report.
<6	Lack of effort.	Failed to read content correctly from any file. Poor web page design (unorganized HTML). Poor coding practices. Missing report or other required files.