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ART101 - Programming for the Arts

2024 Spring Quarter

Lab 16: JSON and APIs 6/6/2024

Links to the lab assignment result

Home Page: https://yhuan359.github.io/art101

This Lab page: https://yhuan359.github.io/art101/lab16/index.html

Summary of Efforts

It was difficult to learn how to do this assignment in a similar manner to the one I had previously done before, thus this was not completed.

Screenshots:

Task 1: Create an index.html file for your lab

```
index.html • JS lab.js
lab16 > ♦ index.html > ♦ html
            <link rel="stylesheet" type="text/css" href="../css/site.css">
            k rel="stylesheet" type="text/css" href="css/lab.css">
            <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
            <script src="js/lab.js" defer></script>
           <main id="content"></main>
            <h1> Lab 16: JSON and APIs </h1>
           <div id="challenge" class="minor-section">
                    <h2> Challenge </h2>
                     <p2> Experiment with processing JSON from an API. </p2><br/>br/>
           <div id="problems" class = "minor-section">
               <h2> Problems </h2>
                \langle p \rangle I struggled to find out the API_key from the API docs. The website says: \langle /p \rangle \langle br/\rangle
                 To obtain API access, contact the X.509-authenticated server and request an ECDH-RSA TLS key...
               <h2> Results </h2>
                 The result does not appear due to the missing API_key.<br/> \mbox{\ensuremath{p>}\xspace}\xspace/\ensuremath{p>}\xspace<\ensuremath{p>}\xspace
            <h1> API Experiment </h1>
           <button id="my-button">GO</button>
<div id="output" class="minor-section">
```

Task 2: Read the Docs







° xkcd.com/json.html

If you want to fetch comics and metadata automatically, you can use the JSON interface. The URLs look like this:

https://xkcd.com/info.0.json (current comic)

or:

https://xkcd.com/614/info.0.json (comic #614)

Those files contain, in a plaintext and easily-parsed format: comic titles, URLs, post dates, transcripts (when available), and other metadata.

Task 3: Test your API endpoint

```
"month": "e",
"num": 1984,
"link": ",
"num": 1984,
"link": ",
"link": ",
"seri,": ",
"seri
```

Task 4: Create a javascript file

```
lab16 > js > JS lab.js > [⊛] ajaxObj
                  // put stuff in output div
$("soutput").html(title);
$("soutput").append("cimg src='" + imageURL + "' />")
$("soutput").append("" + alt);
             // create ajax error callback
function ajaxError(request,error){
    console.log("Oops:", error);
```

Task 5: Test, debug and run

Lab 16: JSON and APIs

Challenge

Experiment with processing JSON from an API.

Problems

I struggled to find out the API_key from the API docs. The website says:

To obtain API access, contact the X.509-authenticated server and request an ECDH-RSA TLS key...

Results

The result does not appear due to the missing of API_key.

API Experiment

GO

Self-Evaluation Rubric

Self-Evaluation Rubric						
Did you complete the assignment, and did you complete it on	Submitted on time	Up to 1 day late	Up to 2 days late	Up to 3 days late	Up to 4 days late	Do you need to clarify?
time? Did you collaborate with a partner?	A lot of effort	П	Some effort	П	Not this time	Do you need to clarify?
Did you put in earnest effort and provide an articulate summary of	Excellent	Pretty good	About average	Could be improved	Not this time	What supports this? I was unable to find the api key
your experience?						
Was the assignment	Excellent	Pretty good	About average	Could be improved	Not this time	What supports this?
complete, with minimal errors, correct output, and good style?	П					I was unable to find the api key
How much EXTRA effort did you put into the assignment?	A lot of extra effort		Some extra effort		Not this time	What supports this?
			П			
Summary of your evaluation/efforts: I struggled to find the API key to complete this assignment						