



Cryptocurrency Rate API

By Kevin Ha

HTML

```
converter.html - Visual Studio Code
File Edit Selection View Go Debug Terminal Help

converter.html x # style.css JS api.js

74      <span>
75      <table><td> <!-- <input id="fromAmount" type="text"> --></td>
76
77      $
78      <select id="fiatcurrency">
79      <option value="USD"> USD </option>
80      <option value="GBP"> Great British Pound (GBP) </option>
81      <option value="JPY"> Japanese Yen (JPY) </option>
82      <option value="EUR"> Euro (EUR) </option>
83      <option value="EUR"> Canadian Dollar (CAD) </option>
84      <option value="RUB"> Russian Ruble (RUB) </option>
85      <option value="CNY"> Chinese Yuan (CNY) </option>
86      <option value="VND"> Vietnamese Dong (VND) </option>
87      <option value="VEF"> Venezuelan Bolivar (VEF) </option>
88
89
90      </select>
91
92      </table>
93
94      </span>
95      TO:
96      <!-- <p></p></span> -->
97      <input type="number" name="fiat" class="fiat" placeholder="0.00" steps="0.01" disabled />
98      </div>
99      <button class="convertButton">Convert</button>
100    </div>
101    <!-- </div> --><!-- .container -->
102    </p>
103
104  </div>
105 </section>
106 <!-- main body end -->
107
108 <footer id = "api">
109   <section id="subscribe">
110     <div class="container">
111       <h1>Subscribe for weekly updates ...</h1>
112       <form>
113         <input type="email" placeholder="Enter Email...">
114         <button type="submit" class="button_1">Direct Message</button>
115       </form>
116     </div>
117   </section>
118   <p>shakevin</p>
119 </footer>
120
121 <script src = "../jscss/api.js"></script>
122 </body>
```

Activate Windows
Go to Settings to activate Windows.

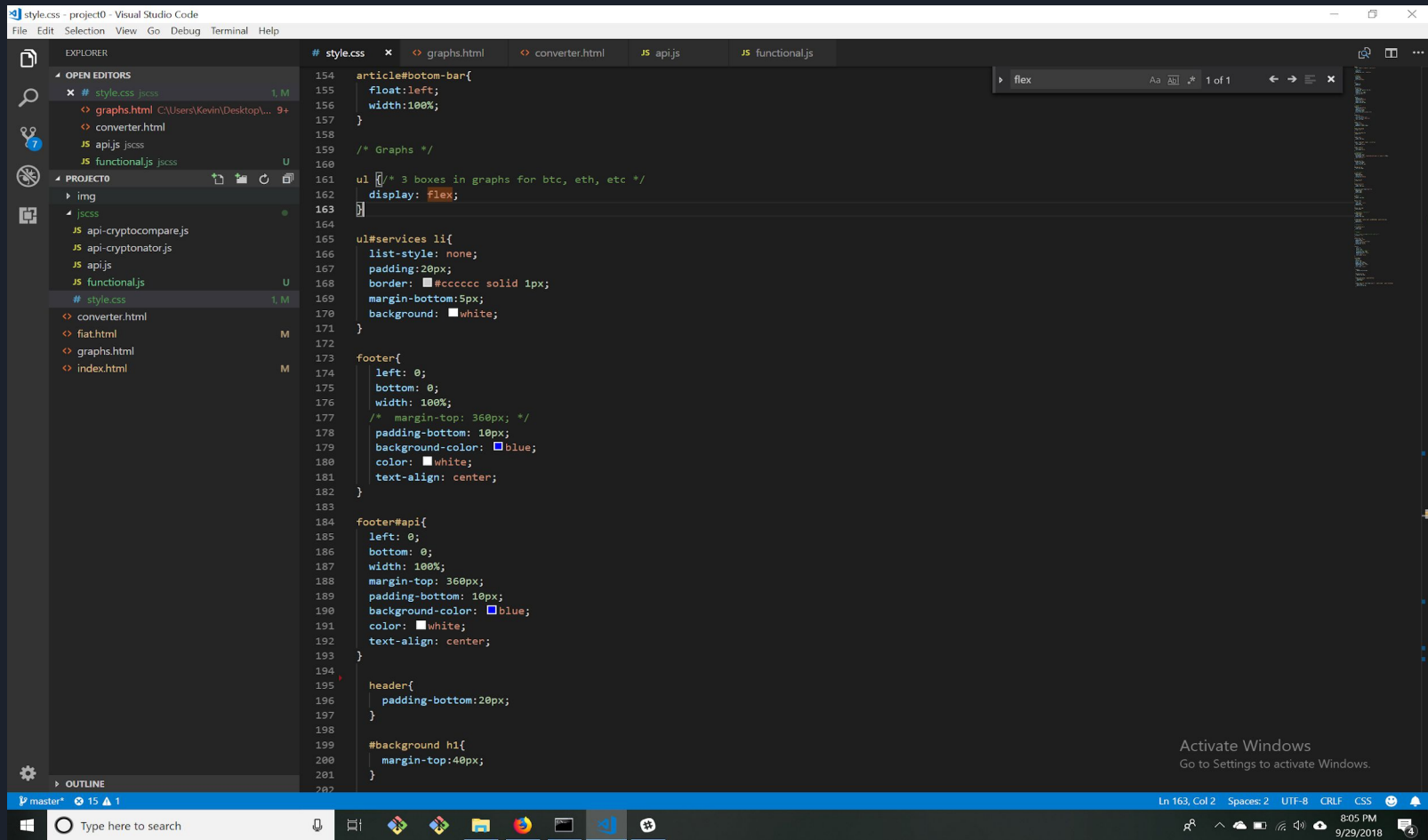
master* 0 1

Ln 79, Col 31 (703 selected) Spaces: 2 UTF-8 CRLF HTML

Type here to search

2:05 PM
10/1/2018

CSS

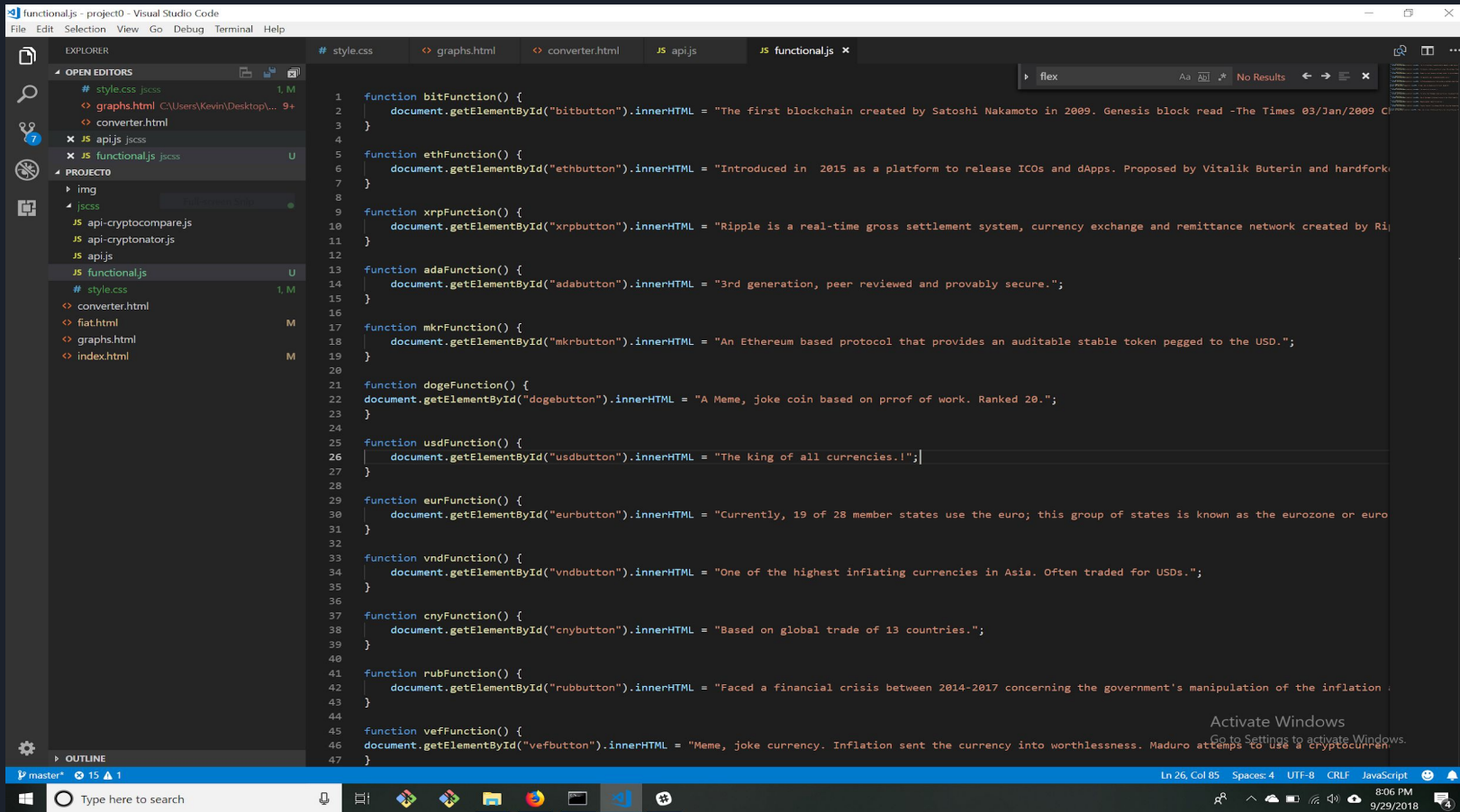


The screenshot shows the Visual Studio Code editor interface with a dark theme. The Explorer sidebar on the left displays the project structure, including files like `style.css`, `graphs.html`, `converter.html`, `apijs`, and `functionaljs`. The main editor area shows the content of `style.css` with the following CSS code:

```
154 article#botom-bar{
155   float:left;
156   width:100%;
157 }
158
159 /* Graphs */
160
161 ul /* 3 boxes in graphs for btc, eth, etc */
162 {
163   display: flex;
164 }
165
166 ul#services li{
167   list-style: none;
168   padding:20px;
169   border: 1px solid #cccccc;
170   margin-bottom:5px;
171   background: white;
172 }
173
174 footer{
175   left: 0;
176   bottom: 0;
177   width: 100%;
178   /* margin-top: 360px; */
179   padding-bottom: 10px;
180   background-color: blue;
181   color: white;
182   text-align: center;
183 }
184
185 footer#api{
186   left: 0;
187   bottom: 0;
188   width: 100%;
189   margin-top: 360px;
190   padding-bottom: 10px;
191   background-color: blue;
192   color: white;
193   text-align: center;
194 }
195
196 header{
197   padding-bottom:20px;
198 }
199
200 #background h1{
201   margin-top:40px;
202 }
```

The status bar at the bottom indicates the current file is `style.css` at line 163, column 2, with 2 spaces, UTF-8 encoding, and CRLF line endings. The Windows taskbar is visible at the very bottom, showing the search bar and system tray.

Javascript



```
functionaljs - project0 - Visual Studio Code
File Edit Selection View Go Debug Terminal Help

EXPLORER
OPEN EDITORS
# style.css jscss 1, M
graphs.html C:\Users\Kevin\Desktop\... 9+
converter.html
JS apijs jscss
JS functionaljs jscss U
PROJECT0
img
jscss
JS api-cryptocompare.js
JS api-cryptonator.js
JS apijs
JS functionaljs U
# style.css 1, M
converter.html
fiat.html M
graphs.html M
index.html

# style.css
1 function bitFunction() {
2   document.getElementById("bitbutton").innerHTML = "The first blockchain created by Satoshi Nakamoto in 2009. Genesis block read -The Times 03/Jan/2009 C
3 }
4
5 function ethFunction() {
6   document.getElementById("ethbutton").innerHTML = "Introduced in 2015 as a platform to release ICOs and dApps. Proposed by Vitalik Buterin and hardfork
7 }
8
9 function xrpFunction() {
10  document.getElementById("xrpbutton").innerHTML = "Ripple is a real-time gross settlement system, currency exchange and remittance network created by Ri
11 }
12
13 function adaFunction() {
14  document.getElementById("adabutton").innerHTML = "3rd generation, peer reviewed and provably secure.";
15 }
16
17 function mkrFunction() {
18  document.getElementById("mkrbutton").innerHTML = "An Ethereum based protocol that provides an auditable stable token pegged to the USD.";
19 }
20
21 function dogeFunction() {
22  document.getElementById("dogebutton").innerHTML = "A Meme, joke coin based on proof of work. Ranked 20.";
23 }
24
25 function usdFunction() {
26  document.getElementById("usdbutton").innerHTML = "The king of all currencies.!!";
27 }
28
29 function eurFunction() {
30  document.getElementById("eurbutton").innerHTML = "Currently, 19 of 28 member states use the euro; this group of states is known as the eurozone or euro
31 }
32
33 function vndFunction() {
34  document.getElementById("vndbutton").innerHTML = "One of the highest inflating currencies in Asia. Often traded for USDs.";
35 }
36
37 function cnyFunction() {
38  document.getElementById("cnybutton").innerHTML = "Based on global trade of 13 countries.";
39 }
40
41 function rubFunction() {
42  document.getElementById("rubbutton").innerHTML = "Faced a financial crisis between 2014-2017 concerning the government's manipulation of the inflation
43 }
44
45 function vefFunction() {
46  document.getElementById("vefbutton").innerHTML = "Meme, joke currency. Inflation sent the currency into worthlessness. Maduro attempts to use a cryptocurren
47 }
```

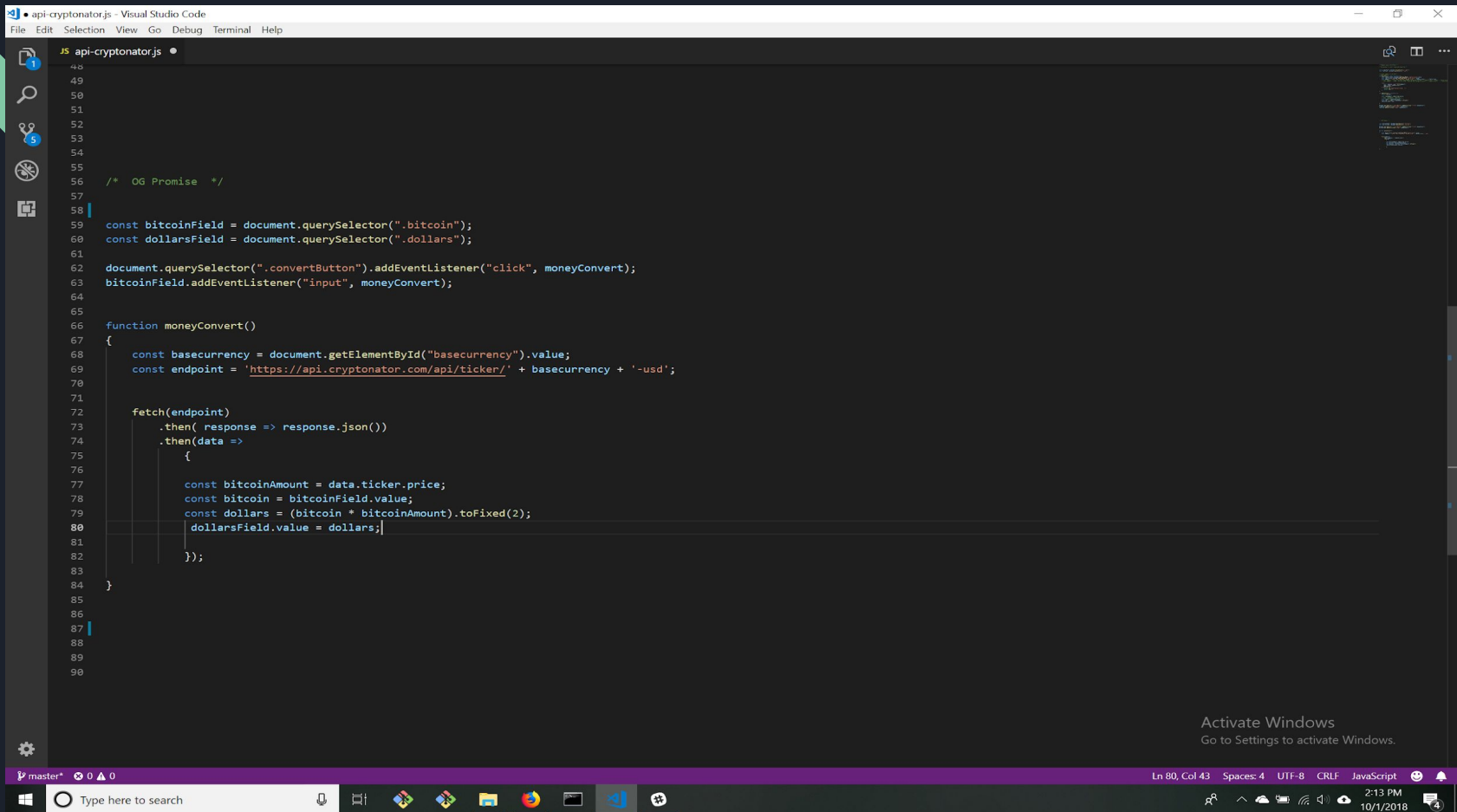
Activate Windows
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Ln 26, Col 85 Spaces: 4 UTF-8 CRLF JavaScript

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8:06 PM 9/29/2018

JS Promise Prototype API

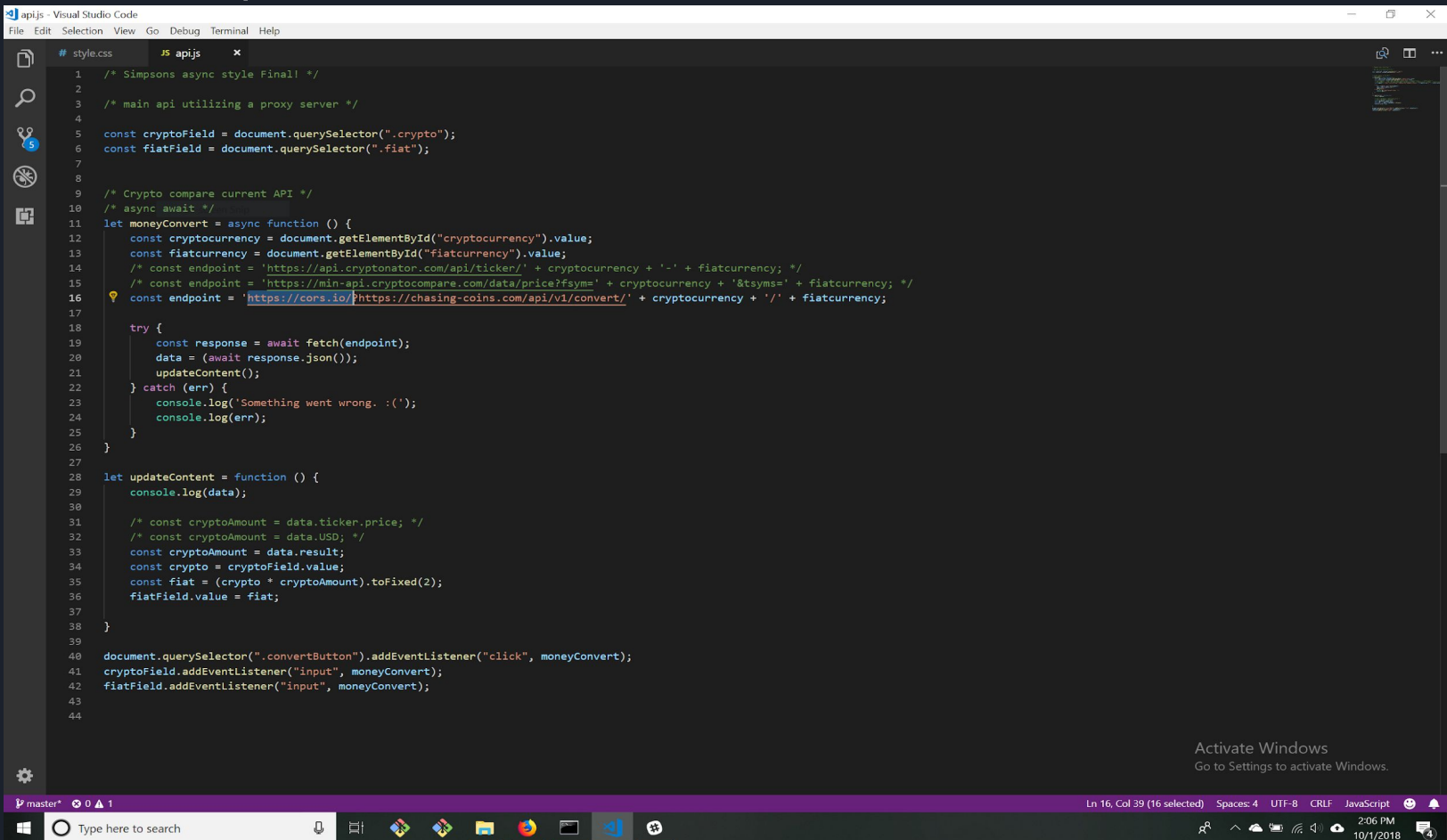


```
48
49
50
51
52
53
54
55
56 /* OG Promise */
57
58
59 const bitcoinField = document.querySelector(".bitcoin");
60 const dollarsField = document.querySelector(".dollars");
61
62 document.querySelector(".convertButton").addEventListener("click", moneyConvert);
63 bitcoinField.addEventListener("input", moneyConvert);
64
65
66 function moneyConvert()
67 {
68     const basecurrency = document.getElementById("basecurrency").value;
69     const endpoint = 'https://api.cryptonator.com/api/ticker/' + basecurrency + '--usd';
70
71     fetch(endpoint)
72     .then( response => response.json())
73     .then(data =>
74     {
75         const bitcoinAmount = data.ticker.price;
76         const bitcoin = bitcoinField.value;
77         const dollars = (bitcoin * bitcoinAmount).toFixed(2);
78         dollarsField.value = dollars;
79     });
80
81
82
83
84 }
85
86
87
88
89
90
```

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master* 0 0 0 Ln 80, Col 43 Spaces: 4 UTF-8 CRLF JavaScript 2:13 PM 10/1/2018

Javascript API



```
1  /* Simpsons async style Final! */
2
3  /* main api utilizing a proxy server */
4
5  const cryptoField = document.querySelector(".crypto");
6  const fiatField = document.querySelector(".fiat");
7
8
9  /* Crypto compare current API */
10 /* async await */
11 let moneyConvert = async function () {
12     const cryptocurrency = document.getElementById("cryptocurrency").value;
13     const fiatcurrency = document.getElementById("fiatcurrency").value;
14     /* const endpoint = 'https://api.cryptonator.com/api/ticker/' + cryptocurrency + '-' + fiatcurrency; */
15     /* const endpoint = 'https://min-api.cryptocompare.com/data/price?fsym=' + cryptocurrency + '&tsyms=' + fiatcurrency; */
16     const endpoint = 'https://cors.io/?https://chasing-coins.com/api/v1/convert/' + cryptocurrency + '/' + fiatcurrency;
17
18     try {
19         const response = await fetch(endpoint);
20         data = (await response.json());
21         updateContent();
22     } catch (err) {
23         console.log('Something went wrong. :(');
24         console.log(err);
25     }
26 }
27
28 let updateContent = function () {
29     console.log(data);
30
31     /* const cryptoAmount = data.ticker.price; */
32     /* const cryptoAmount = data.USD; */
33     const cryptoAmount = data.result;
34     const crypto = cryptoField.value;
35     const fiat = (crypto * cryptoAmount).toFixed(2);
36     fiatField.value = fiat;
37
38 }
39
40 document.querySelector(".convertButton").addEventListener("click", moneyConvert);
41 cryptoField.addEventListener("input", moneyConvert);
42 fiatField.addEventListener("input", moneyConvert);
43
44
```

Activate Windows
Go to Settings to activate Windows.

master* 0 1

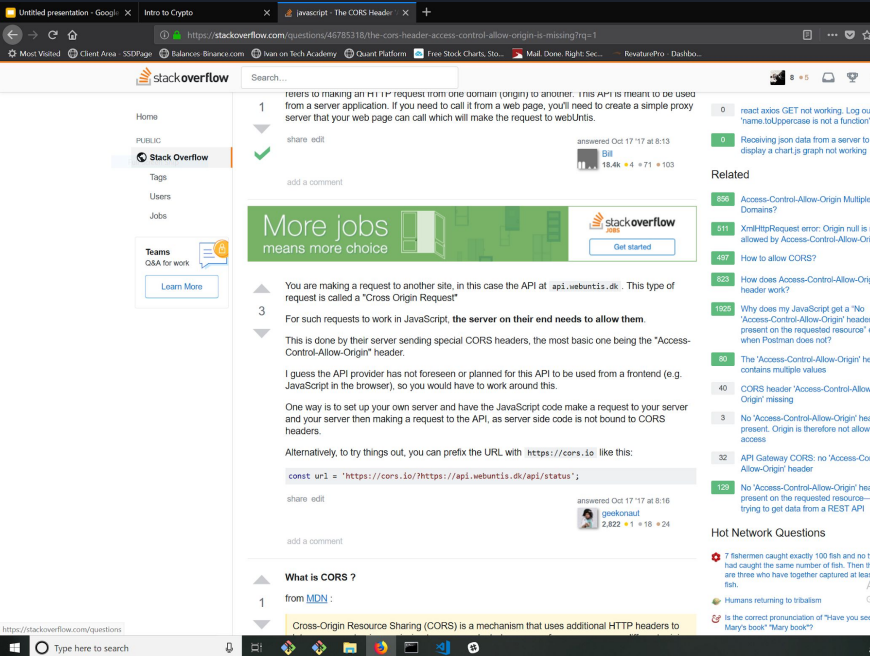
Ln 16, Col 39 (16 selected) Spaces: 4 UTF-8 CRLF JavaScript

Type here to search

2:06 PM 10/1/2018

External Tools

1. Cors 3rd Party Proxy
2. Stackoverflow



The screenshot shows a Stack Overflow page for the question "cors header access-control-allow-origin is missing". The question is asked by user 'Bill' and has 15.4k views, 4 answers, and 71 upvotes. The question text describes a problem with a REST API that returns JSON data, but the CORS header is missing, causing a 'NetworkError when attempting to fetch resource.' in JavaScript. The user asks for a simple proxy server or a way to make the request work without a proxy. The top answer, by user 'geekonaul', explains that the API is not designed to be used from a browser and suggests using a REST client or a proxy. It also provides a link to a tutorial on how to use a REST client.

Search: cors header access-control-allow-origin is missing

1 read asks GET not working. Log out
share edit answered Oct 17 17 at 8:13
Bill 15.4k • 4 • 71 • 103

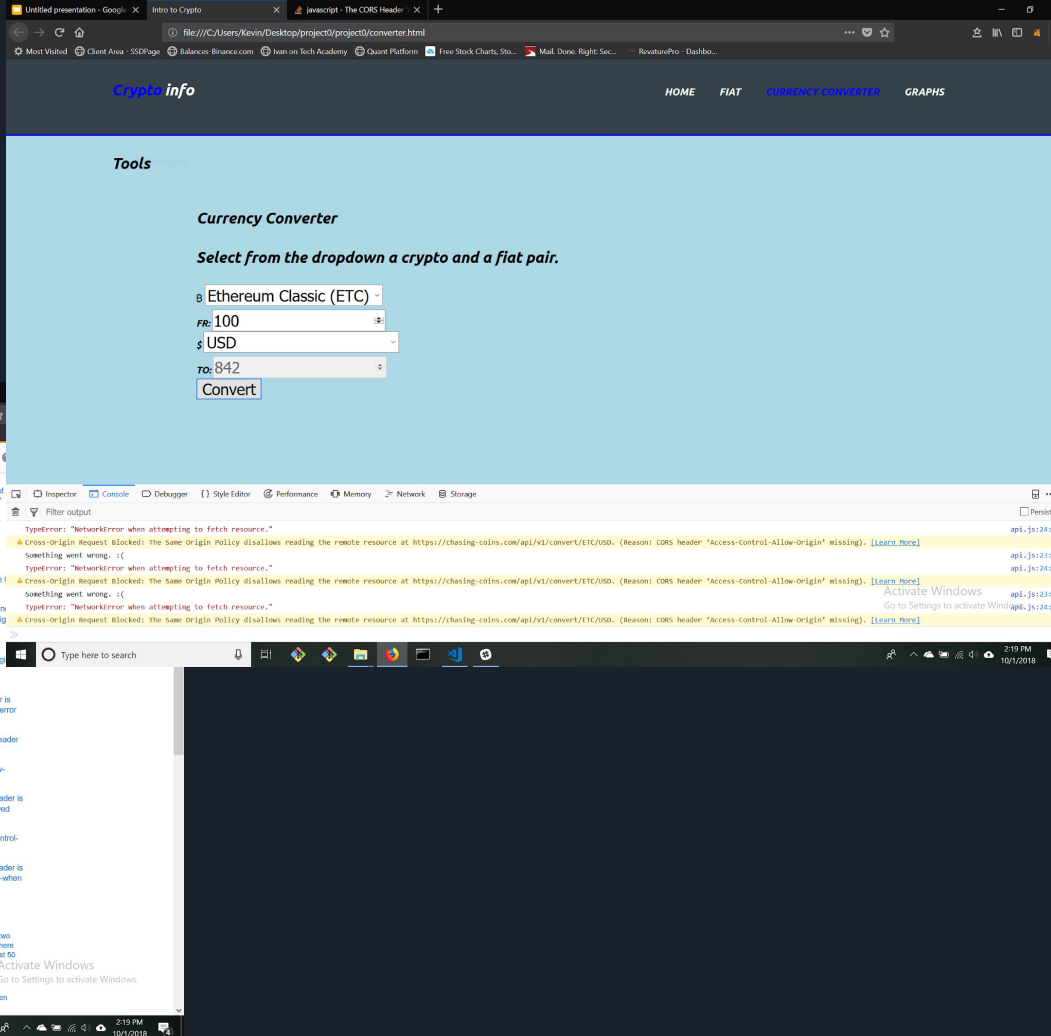
add a comment

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stackoverflow
Get started

3 You are making a request to another site, in this case the API at `api.webutis.dk`. This type of request is called a "Cross Origin Request".
For such requests to work in JavaScript, the server on their end needs to allow them.
This is done by their server sending special CORS headers, the most basic one being the "Access-Control-Allow-Origin" header.
I guess the API provider has not foreseen or planned for this API to be used from a frontend (e.g. JavaScript in the browser), so you would have to work around this.
One way is to set up your own server and have the JavaScript code make a request to your server and your server then making a request to the API, as server side code is not bound to CORS headers.
Alternatively, to try things out, you can prefix the URL with `https://cors.is` like this:
`const url = 'https://cors.is/https://api.webutis.dk/api/status';`
share edit answered Oct 17 17 at 8:16
geekonaul 2,822 • 1 • 18 • 24

add a comment

What is CORS ?
1 from MDN :
Cross-Origin Resource Sharing (CORS) is a mechanism that uses additional HTTP headers to



The screenshot shows the Crypto.info website's Currency Converter tool. The tool allows users to select a crypto and a fiat pair from dropdown menus. The selected pair is Ethereum Classic (ETC) to USD. The conversion rate is shown as 1 ETC = 842 USD. A 'Convert' button is visible.

Tools

Currency Converter

Select from the dropdown a crypto and a fiat pair.

From: Ethereum Classic (ETC) To: USD
Rate: 100 842
Convert

Inspector Console Debugger Style Editor Performance Memory Network Storage

Filter output

TypeError: "NetworkError when attempting to fetch resource."
Cross-Origin Request Blocked: The Same Origin Policy disallows reading the remote resource at https://chasing-coins.com/api/v1/convert/ETC/USD. (Reason: CORS header "Access-Control-Allow-Origin" missing). [Learn More]
Something went wrong. :(
TypeError: "NetworkError when attempting to fetch resource."
Cross-Origin Request Blocked: The Same Origin Policy disallows reading the remote resource at https://chasing-coins.com/api/v1/convert/ETC/USD. (Reason: CORS header "Access-Control-Allow-Origin" missing). [Learn More]
Something went wrong. :(
TypeError: "NetworkError when attempting to fetch resource."
Cross-Origin Request Blocked: The Same Origin Policy disallows reading the remote resource at https://chasing-coins.com/api/v1/convert/ETC/USD. (Reason: CORS header "Access-Control-Allow-Origin" missing). [Learn More]

Related

696 Access-Control-Allow-Origin Multiple Domains?
611 XMLHttpRequest error: Origin null is not allowed by Access-Control-Allow-Origin
497 How to allow CORS?
623 How does Access-Control-Allow-Origin header work?
1005 Why does my JavaScript get a "No 'Access-Control-Allow-Origin' header is present on the requested resource" error when Postman does not?
80 The "Access-Control-Allow-Origin" header contains multiple values
40 CORS header "Access-Control-Allow-Origin" missing
3 No "Access-Control-Allow-Origin" header is present. Origin is therefore not allowed access
32 API Gateway CORS: no "Access-Control-Allow-Origin" header
120 No "Access-Control-Allow-Origin" header is present on the requested resource—when trying to get data from a REST API

Hot Network Questions

7 fishermen caught exactly 100 fish and no two had caught the same number of fish. Then there are three who have together captured at least 80 fish.
Humans returning to tribalism
Is the correct pronunciation of "have you seen Mary's book" "Mary book"?

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To Revature Program

Thank you for following my presentation.