

```
1 <!DOCTYPE html>
2
3 <html>
4   <head>
5     <script src="https://code.jquery.com/jquery-latest.min.js"></script>
6     <script>
7
8       function quote()
9       {
10         $.getJSON("/quote", {symbol: $("#symbol").val()}, function(data) {
11           alert(data.price);
12         });
13       }
14
15     </script>
16     <title>ajax0</title>
17   </head>
18   <body>
19     <form onsubmit="quote(); return false;">
20       <input autocomplete="off" autofocus id="symbol" placeholder="Symbol" type="text"/>
21       <input type="submit" value="Get Quote"/>
22     </form>
23   </body>
24 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <script src="https://code.jquery.com/jquery-latest.min.js"></script>
6      <script>
7
8        $(document).ready(function() {
9
10         $("#quote").submit(function() {
11
12           $.getJSON("/quote", {symbol: $("#symbol").val()}, function(data) {
13             alert(data.price);
14           });
15           return false;
16
17         });
18
19       });
20
21     </script>
22     <title>ajax1</title>
23   </head>
24   <body>
25     <form id="quote">
26       <input autocomplete="off" autofocus id="symbol" placeholder="Symbol" type="text"/>
27       <input type="submit" value="Get Quote"/>
28     </form>
29   </body>
30 </html>
```

```
1 <!DOCTYPE html>
2
3 <html>
4   <head>
5     <script src="https://code.jquery.com/jquery-latest.min.js"></script>
6     <script>
7
8       function quote()
9       {
10         $.getJSON("/quote", {symbol: $("#symbol").val()}, function(data) {
11           $("#quote").html(`A share of ${data.name} costs $$${data.price}.`);
12           $("#symbol").val("");
13         });
14       }
15
16     </script>
17     <title>ajax2</title>
18   </head>
19   <body>
20     <form onsubmit="quote(); return false;">
21       <input autocomplete="off" autofocus id="symbol" placeholder="Symbol" type="text"/>
22       <input type="submit" value="Get Quote"/>
23     </form>
24     <p id="quote"></p>
25   </body>
26 </html>
```

```
1 import csv
2 import os
3 import urllib.request
4
5 from flask import Flask, jsonify, render_template, request
6 from flask.ext.hook import ExtDeprecationWarning
7 from warnings import simplefilter
8 simplefilter("ignore", ExtDeprecationWarning)
9 from flask_autoindex import AutoIndex
10
11 app = Flask(__name__)
12 AutoIndex(app, browse_root=os.path.curdir)
13
14 @app.route("/quote")
15 def quote():
16     symbol = request.args.get("symbol")
17     url = f"https://www.alphavantage.co/query?
apikey=NAJXWIA8D6VN6A3K&datatype=csv&function=TIME_SERIES_INTRADAY&interval=1min&symbol={symbol}"
18     webpage = urllib.request.urlopen(url)
19     datareader = csv.reader(webpage.read().decode("utf-8").splitlines())
20     next(datareader)
21     row = next(datareader)
22     return jsonify({
23         "name": symbol.upper(),
24         "price": float(row[4]),
25         "symbol": symbol.upper()
26     })
27
28
29 @app.route("/register")
30 def register():
31     return "You're registered! (Well, not really.)"
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <script>
6
7        // toggles visibility of greeting
8        function blink()
9        {
10           let div = document.getElementById("greeting");
11           if (div.style.visibility == "hidden")
12           {
13             div.style.visibility = "visible";
14           }
15           else
16           {
17             div.style.visibility = "hidden";
18           }
19         }
20
21        // blink every 500ms
22        window.setInterval(blink, 500);
23
24      </script>
25      <title>blink</title>
26    </head>
27    <body>
28      <div id="greeting">
29        hello, world
30      </div>
31    </body>
32  </html>
```

```
1 <!DOCTYPE html>
2
3 <html>
4   <head>
5     <script>
6
7       function greet()
8       {
9         alert(`hello, ${document.getElementById("name").value}!`);
10      }
11
12     </script>
13     <title>dom0</title>
14   </head>
15   <body>
16     <form id="demo" onsubmit="greet(); return false;">
17       <input autocomplete="off" autofocus id="name" placeholder="Name" type="text"/>
18       <input type="submit"/>
19     </form>
20   </body>
21 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <title>dom1</title>
6    </head>
7    <body>
8      <form id="demo">
9        <input autocomplete="off" autofocus id="name" placeholder="Name" type="text"/>
10       <input type="submit"/>
11     </form>
12     <script>
13
14       document.getElementById("demo").onsubmit = function() {
15         alert("hello, " + document.getElementById("name").value + "!");
16         return false;
17       };
18
19     </script>
20   </body>
21 </html>
```

```
1 <!DOCTYPE html>
2
3 <html>
4   <head>
5     <script src="https://code.jquery.com/jquery-latest.min.js"></script>
6     <script>
7
8       $(document).ready(function() {
9         $("#demo").submit(function(event) {
10          alert(`hello, ${$("#name").val()}!`);
11          event.preventDefault();
12        });
13      });
14
15    </script>
16    <title>dom2</title>
17  </head>
18  <body>
19    <form id="demo">
20      <input autocomplete="off" autofocus id="name" placeholder="Name" type="text"/>
21      <input type="submit"/>
22    </form>
23  </body>
24 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <title>form0</title>
6    </head>
7    <body>
8      <form action="/register" method="get">
9        <input autocomplete="off" autofocus name="email" placeholder="Email" type="text"/>
10       <input name="password" placeholder="Password" type="password"/>
11       <input name="confirmation" placeholder="Password (again)" type="password"/>
12       <input name="agreement" type="checkbox"/> I agree
13       <input type="submit" value="Register"/>
14     </form>
15   </body>
16 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <title>form1</title>
6    </head>
7    <body>
8      <form action="/register" id="registration" method="get">
9        <input autocomplete="off" autofocus name="email" placeholder="Email" type="text"/>
10       <input name="password" placeholder="Password" type="password"/>
11       <input name="confirmation" placeholder="Password (again)" type="password"/>
12       <input name="agreement" type="checkbox"/> I agree
13       <input type="submit" value="Register"/>
14     </form>
15     <script>
16
17       let form = document.getElementById("registration");
18       form.onsubmit = function() {
19
20         if (!form.email.value)
21         {
22           alert("missing email");
23           return false;
24         }
25         else if (!form.password.value)
26         {
27           alert("missing password");
28           return false;
29         }
30         else if (form.password.value != form.confirmation.value)
31         {
32           alert("passwords don't match");
33           return false;
34         }
35         else if (!form.agreement.checked)
36         {
37           alert("checkbox unchecked");
38           return false;
39         }
40         return true;
41       };
42
43     </script>
44
```

```
45     </body>  
46 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <script src="https://code.jquery.com/jquery-latest.min.js"></script>
6      <script>
7
8        $(document).ready(function() {
9
10         $("#registration").submit(function() {
11
12           if (!$("#registration input[name=email]").val())
13             {
14               alert("missing email");
15               return false;
16             }
17           else if (!$("#registration input[name=password]").val())
18             {
19               alert("missing password");
20               return false;
21             }
22           else if ($("#registration input[name=password]").val() != $("#registration
input[name=confirmation]").val())
23             {
24               alert("passwords don't match");
25               return false;
26             }
27           else if (!$("#registration input[name=agreement]").is(":checked"))
28             {
29               alert("checkbox unchecked");
30               return false;
31             }
32           return true;
33
34         });
35
36       });
37
38     </script>
39     <title>form2</title>
40   </head>
41   <body>
42     <form action="/register" id="registration" method="get">
43       <input autocomplete="off" autofocus name="email" placeholder="Email" type="text"/>
44       <input name="password" placeholder="Password" type="password"/>
```

```
45         <input name="confirmation" placeholder="Password (again)" type="password"/>
46         <input name="agreement" type="checkbox"/> I agree
47         <input type="submit" value="Register"/>
48     </form>
49 </body>
50 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <title>geolocation</title>
6    </head>
7    <body>
8      <script>
9
10         navigator.geolocation.getCurrentPosition(function(position) {
11             document.write(position.coords.latitude + ", " + position.coords.longitude);
12         });
13
14     </script>
15 </body>
16 </html>
```

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <style>
6
7        html, body, #map
8        {
9          height: 100%;
10         margin: 0;
11       }
12
13     </style>
14     <title>map</title>
15   </head>
16   <body>
17     <div id="map"></div>
18     <script>
19
20       function initMap() {
21         let map = new google.maps.Map(document.getElementById("map"), {
22           center: {lat: 39.833, lng: -98.583},
23           zoom: 4
24         });
25         new google.maps.Marker({
26           map: map,
27           position: {lat: 42.3762, lng: -71.1158}
28         });
29         new google.maps.Marker({
30           map: map,
31           position: {lat: 41.3104, lng: -72.9289}
32         });
33       }
34
35     </script>
36     <script src="https://maps.googleapis.com/maps/api/js?
key=AIzaSyD060HFRs8E27SDasFfhGqMiD5cKrzau74&callback=initMap"></script>
37   </body>
38 </html>
```

- 1 Flask
- 2 Flask-AutoIndex
- 3 Flask-SQLAlchemy

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <title>storage</title>
6    </head>
7    <body>
8      <script>
9
10         if (!localStorage.getItem("counter")) {
11             localStorage.setItem("counter", 0);
12         }
13         document.write(localStorage.getItem("counter"));
14         localStorage.setItem("counter", parseInt(localStorage.getItem("counter")) + 1);
15
16     </script>
17 </body>
18 </html>
```