

**URL:**

[https://mirarj.github.io/CS20/Assignment8\\_API/](https://mirarj.github.io/CS20/Assignment8_API/)

**Questions:**

1. What were the most challenging and most satisfying things about doing this assignment?

The most challenging part was understanding how `fetch()` and promises worked.

I couldn't figure out how to check for different kinds of errors using `fetch()`. The most satisfying part was using the form after I built it to send requests quickly and easily.

**Code:**

```
<!doctype html>
<html>
<head>
  <title>Names API</title>
  <meta charset="utf-8"/>
  <style>
    li {font-weight: bold;}
  </style>
  <script src="https://code.jquery.com/jquery-3.6.4.js"
integrity="sha256-a9jBBRygX1Bh5lt8GZjXDzyOB+bWve9Ei07tR0Utj/E=" crossorigin="anonymous"></script>
  <script>
    function getAge() {

      data_ajax = document.getElementById("data_ajax");
      data_fetch = document.getElementById("data_fetch");
      name = document.getElementById("name").value;
      if (name=="") {
        alert("Enter a name.")
        return false;
      }

      data_ajax.innerHTML = "Loading...";
      data_fetch.innerHTML = "Loading...";

      // AJAX
      req = new XMLHttpRequest();
      req.open("GET", "https://api.agify.io/?name="+name, true)
```

```

req.onreadystatechange = function() {
    if (req.readyState == 4) {
        json_str = req.responseText;
        json_obj = JSON.parse(json_str);

        if (req.status == 200) {
            data_ajax.innerHTML = disp_json(json_obj);
        }
        else {
            error_msg = "Error " + req.status + ": " + json_obj['error'];
            data_ajax.innerHTML = error_msg;
        }
    }
}

req.send();

// FETCH
fetch("https://api.agify.io/?name="+name)
.then((response) => response.json())
.then((data) => {data_fetch.innerHTML = disp_json(data);})
.catch(data_fetch.innerHTML = "An error occurred")

// DISPLAY DATA
function disp_json(json_obj) {
    disp_html = "Name: " + json_obj['name'] + "<br />";
    disp_html += "Occurrences: " + json_obj['count'] + "<br />";
    disp_html += "Predicted Age: " + json_obj['age'] + "<br />";

    return disp_html;
}

return false;
}
</script>
</head>

<body>
    <h1>Agify.io</h1>
    <form method="" onsubmit="getAge(); return false;" id="form1">

```

```

    <label for="txtNameId">Enter a name to Agify</label> <br />
    <input type="text" id="name" placeholder="Bella">
    <br>
    <input type="submit" value="Get Response">
</form>

<h2>Getting data using AJAX</h2>
<div id="data_ajax"></div>
<h2>Getting data using fetch() function</h2>
<div id="data_fetch"></div>
<h2>About:</h2>
<div id="about">
    <ol>
        <li>Describe the API you selected and what it does.</li>
        I chose the Agify.io API. It takes a name as input and returns the predicted age of people
with that name.
        <li>Cite the website where you found it.</li>
        I found this API on <a
href="https://mixedanalytics.com/blog/list-actually-free-open-no-auth-needed-apis/">https://mixedanalyt
ics.com/blog/list-actually-free-open-no-auth-needed-apis/</a>.
        <li>Describe the options you used for the API request.</li>
        I used the option to query a name. I also used the errors returned by the API to display
error messages. There weren't any other options available.
        <li>Give two applications where this API would be helpful.</li>
        This would be helpful in social research for finding out the average age of commenters on a
website. It could also be helpful for creative applications like making sure the names of fictional
characters match their ages.
    </ol>
</div>
</body>
</html>

```