

Lab 10:

Javascript Events and Forms

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Lab 10: JavaScript Events and Forms

Submit Assignment

Due Tuesday by 8:50am Points 10 Submitting a file upload File Types pdf

Big Idea

Working with your partner, experiment with JS events.

Task 1: Create an index.html for your lab

As always, create the proper folders and an index, css, and JavaScript files for this lab. And make sure you also put a link from your art101 homepage to this lab

1. Create an **index.html** for your lab with three organized sections: **Challenge, Problems, and Results**
2. Use heading, div, and paragraph tags to organize your page
3. Add an input form field with **id="user-name"** in your html. Label it "Input your name: "
4. Add a button with id my-button. Remember to label it.
5. Add a **<div>** with **id=output** and label it.
6. Link a JavaScript file from the **<head>** section of your HTML like this:

```
<head>
  <title>Lab 10</title>
  <script src="js/lab10.js" defer></script>
</head>
```

7. Add a CSS stylesheet in your css folder and link from **index.html**
8. Add a link to your JavaScript file in your index page.

Take a **screenshot** of your Sublime source code

Task 1: Create an index.html for Lab 10

```

1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3    <head>
4      <meta charset="utf-8">
5
6      <link rel="stylesheet" type="text/css" href="css/lab10.css">
7      <title>userName</title>
8      <script src="js/lab10.js" defer> </script>
9    </head>
10   <body>
11     <h1>Lab 10: JavaScript Events and Forms</h1>
12
13     <div id="output">
14       <button id="my-button">Submit</button>
15     </div>
16
17     <input type="text" id="user-name">Input your name
18
19   <div>
20     <h2>Challenge</h2>
21     create a button and an input bar where the user can type and submit
22     their name. Then create an event listner that runs the user input through
23     the name sorter and outputs the results as a new user name.
24
25     <h2>Problems</h2>
26     Our first challenge was organizing the div "output" around the button.
27     After we figured this out and went on to create out JavaScript, we kept
28     recieving the consol error that userName.split is not a function. This
29     remains confusing as our nameSorter function worked fine in Lab 7. Our most
30     problematic barrier was the event listner. We were able to get the input value
31     and even run it through the name sorter function (after heavy work) but
32     are still unable to save the results and output them. In the end we were
33     not able to figure it out but hope to resubmit after asking some questions in section.
34
35     <h2>Results</h2>
36     See our screenshots and website for results so far.

```

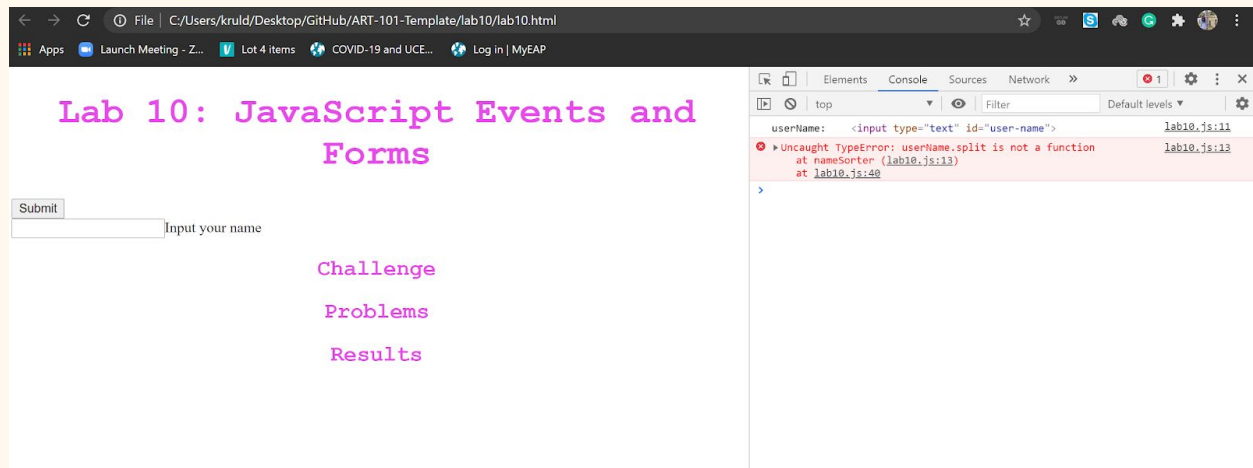
(Our HTML in Atom.)

Task 2: Create a JavaScript file

```
1  /*
2   * Author: Becky Phillips, Matila Krulder, Julian Fee
3   * Created: 16 February 2021
4   * License: Public Domain
5   */
6
7   // Define Function//
8   function nameSorter() {
9       var userName = document.getElementById ("user-name");
10      console.log("userName: ", userName);
11      // Split string and convert to array
12      var nameArray = userName.split('');
13      console.log("nameArray = ", nameArray);
14      // Sort the array
15      var sortNameArray = nameArray.sort();
16      console.log("sortedNameArray= ", sortNameArray);
17      // Join array and convert back to a string
18      var sortedName = sortNameArray.join('');
19      console.log("sortedName= ", sortedName);
20      // return the new (sorted) name
21      return sortedName;
22  }
23
24  // find the button element
25  var buttonEl = document.getElementById("my-button");
26
27  // add an event listener to button
28  buttonEl.addEventListener("click", function(){
29      //get input value
30      inputValue = document.getElementById ("user-name").value;
31      //run through Function
32      document.getElementById ("user-name").innerHTML = nameSorter();
33      //replace html with results
34      document.getElementById("output");
35  });
```

(Our JavaScript in Atom.)

Task 3: Test, Debug, and Upload



(Our local file opened on a webpage.)

Link to published Lab 10 webpage:

<https://becphi14.github.io/art101/lab10/>

(Published Lab 10 webpage.)

Summary of Efforts:

We had a lot of trouble with this lab. Without the help of an example on what we wanted to accomplish, we struggled with how to structure the HTML, as well as what new commands to use in order to actually make the function work. We worked to think through it and tried many different solutions. We also searched on w3 schools and other sites for help but were still unable to find a way. We believe one of the main problems we encountered is finding a way to run the input value through the name sorter function and saving the results to appear as the output within the event listener. We looked through the class slides as well but still couldn't find what we needed.