



Web Design > JavaScript

# JavaScript Form Validation (Practical Tutorial)



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Read Time: 21 min |



English ▾

JavaScript

HTML & CSS

Form Design

JavaScript is a big help when accepting data in public-facing forms on websites; it enables us to ensure data entered is accurate before being submitted to a server.

**Create a new account**

Username  
john ✓

Email  
john ✗  
Please enter valid email address

Password  
\*\*\*\*\* ✓

Password Confirmation  
\*\*\*\*\* ✓

Create account

What we'll be creating



In this tutorial, we'll build a simple login form and add front-end validation with vanilla JavaScript. The overarching goal is to provide helpful feedback to the end-user and ensure the submitted data is what we want!

**INFO**

This tutorial is written so that beginners can follow along—but some basic JavaScript knowledge and understanding of coding principles will certainly help!

## Live Demo of Our JavaScript Form Validation

Check out the pen below to test our JavaScript form validation—fork it, feel free to copy snippets of the code, and follow the tutorial to see how it was created!



# Why Modern JavaScript Works Well Enough

Thanks to the recent advancements in JavaScript, we can confidently use modern JavaScript to accomplish form validations without any dependencies.

However, some frameworks out in the wild simplify the validation strategy. We won't be using any dependencies for this tutorial to make everything function.

It's also worth mentioning in many situations, HTML5 has built-in validations that might work well enough for your projects. These can be handy if you aren't interested in creating your custom validations or lack the extra time. This tutorial will leverage the custom route to make the experience more branded.



## HTML5 Form Validation With the "pattern" Attribute



Thoriq Firdaus  
21 Apr 2021

## 1. Add the Markup

Starting with the HTML, I created a simple account creation form displayed in the center of a page. The form features four input fields (username, email, password, password confirmation) and a submit input button.

Within the markup, we'll add some additional elements to provide validation feedback to the end-user. These include some SVG icons (sourced from [heroicons.com](https://heroicons.com)) and some empty `<span>` tags. These are to provide actionable instructions if a field isn't passing a validation.

```
01 <div class="container">
02   <h2 class="title">Create a new account</h2>
03   <form action="#" class="form">
04     <div class="input-group">
05       <label for="username" class="label">Username</label>
06       <input id="username" placeholder="John Doe" type="text" class="
07       <span class="error-message"></span>
08       <svg class="icon icon-success hidden" xmlns="https://www.w3.org
09
10       <svg class="icon icon-error hidden" xmlns="http://www.w3.org/20
11     </div>
12
13     <div class="input-group">
14       <label for="email" class="label">Email</label>
15       <input id="email" type="email" class="input" autocomplete="pla
16       <span class="error-message"></span>
17     </div>
```

```
17     <svg class="icon icon-success hidden" xmlns="http://www.w3.org/
18
19     <svg class="icon icon-error hidden" xmlns="http://www.w3.org/20
20 </div>
21
22 <div class="input-group">
23   <label for="password" class="label">Password</label>
24   <input id="password" type="password" class="input" />
25   <span class="error-message"></span>
26   <svg class="icon icon-success hidden" xmlns="http://www.w3.org/
27
28   <svg class="icon icon-error hidden" xmlns="http://www.w3.org/20
29 </div>
30
31 <div class="input-group">
32   <label for="password_confirmation" class="label"
33     >Password Confirmation</label>
34   >
35   <input id="password_confirmation" type="password" class="input"
36   <span class="error-message"></span>
37   <svg class="icon icon-success hidden" xmlns="http://www.w3.org/
38
39   <svg class="icon icon-error hidden" xmlns="http://www.w3.org/20
40 </div>
41
42   <input type="submit" class="button" value="Create account" />
43 </form>
44 </div>
```

Things to note at this point:

- Each input field is grouped in a `div` element with a class of `input-group`. We'll use CSS to add some space between each field. Within each grouping, we have a set of SVG icons, a span field, and an input field. We will use SVG icons to provide a visual cue whether the input is valid or invalid.
- We'll use CSS to initially hide each icon from view. Then we can leverage JavaScript to hide and show them relative to the user's input.
- I also plan to display a helpful message within the `span` tag with a class of `error-message` should the form's validations be triggered to execute. There is a single `span` tag per input grouping.
- Finally, notice that each input has an *id* assigned. The id attribute is vital for the tutorial's JavaScript portion.

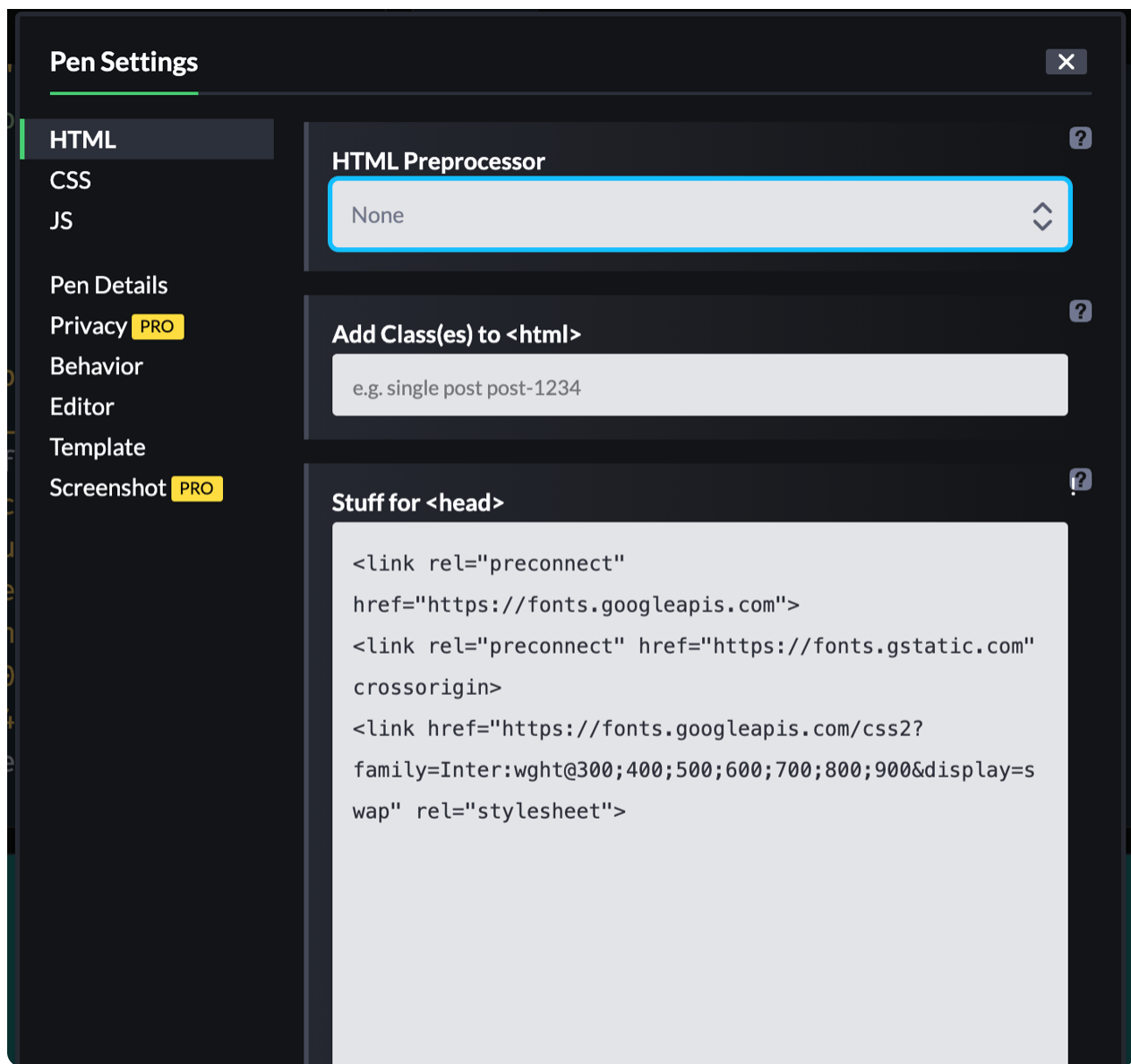
## 2. Styling the Form With CSS

To make the form much easier to use and more accessible, we'll add some CSS.

I linked to a [Google Fonts](#) Specimen called [Inter](#) (which you may recognize from Tuts+). It's a great sans-serif font face adaptable to many use cases.

If you're using [CodePen](#) and following along, you can find our font linked in the `head` tag options inside the HTML pane of the editor.





The CSS is relatively straightforward. We are using CSS to hide all icons on the initial load, and we'll be toggling the state of them with JavaScript coming up.

```
001 * {
002   box-sizing: border-box;
003 }
004
005 body {
006   background-color: teal;
007 }
008
009 .title {
010   margin-bottom: 2rem;
011 }
012
013 .hidden {
014   display: none;
015 }
016
017 .icon {
018   width: 24px;
019   height: 24px;
020   position: absolute;
021   top: 32px;
022   right: 5px;
023   pointer-events: none;
024   z-index: 2;
025 }
026
027 .icon.icon-success {
028   stroke: teal;
029 }
030
031 .icon.icon-error {
```



```
031 .icon.icon-error {
032   stroke: red;
033 }
034
035 .container {
036   max-width: 460px;
037   margin: 40px auto;
038   padding: 40px;
039   border: 1px solid #ddd;
040   border-radius: 10px;
041   background-color: white;
042   box-shadow: 0 20px 25px -5px rgba(0, 0, 0, 0.1), 0 10px 10px -5px
043 }
044
045 .label {
046   font-weight: bold;
047   display: block;
048   color: #333;
049   margin-bottom: 0.25rem;
050   color: #2d3748;
051 }
052
053 .input {
054   appearance: none;
055   display: block;
056   width: 100%;
057   color: #2d3748;
058   border: 1px solid #cbd5e0;
059   line-height: 1.25;
060   background-color: white;
061   padding: 0.65rem 0.75rem;
062   border-radius: 0.25rem;
063 }
064
065 .input::placeholder {
066   color: #a0aec0;
067 }
068
069 .input.input-error {
070   border: 1px solid red;
071 }
072
073 .input.input-error:focus {
074   border: 1px solid red;
075 }
076
077 .input:focus {
078   outline: none;
079   border: 1px solid #a0aec0;
080   box-shadow: 0 1px 3px 0 rgba(0, 0, 0, 0.1), 0 1px 2px 0 rgba(0, 0,
081   background-clip: padding-box;
082 }
083
084 .input-group {
085   margin-bottom: 2rem;
086   position: relative;
087 }
088
089 .error-message {
090   font-size: 0.85rem;
091   color: red;
092 }
093
094 .button {
095   background-color: teal;
096   padding: 1rem 2rem;
097   border: none;
098   border-radius: 0.25rem;
099   color: white;
100   font-weight: bold;
```



```
101     display: block;  
102     width: 100%;  
103     text-align: center;  
104     cursor: pointer;  
105 }  
106  
107 .button:hover {  
108     filter: brightness(110%);  
109 }
```

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## 3. Plugging in the JavaScript

Now on to the feature presentation! Adding JavaScript is what is going to make or break this form.

I mentioned a few goals before, but here is the entire list in an outline:

- Ensure the correct data is entered into each field.
- Display helpful feedback if a field is valid or invalid
- Don't allow the form to be submitted if any fields are invalid
- Validate the form in real-time as a user types or clicks **Create account**.

## Thinking Modularly

With the onset of ES6 and further support of JavaScript in modern browsers, we can leverage some newer features that allow the code we write to be more reusable.

With that in mind, I'll be using JavaScript's `constructor` pattern and create a new **Class** that can be used for future forms if necessary.

These patterns stem from backend programming concepts, though, in JavaScript, it's more of extraction since JavaScript isn't a traditional programming language. I'd recommend reading more about the inner-



workings of **classes** and **constructors** if you want to understand more behind how they work.

I should mention that the final code isn't 100% modular, but the idea is to shift it that way as much as possible. As your application or website scales, it might make sense to entertain the idea of a JavaScript framework since frameworks tend to extract repeated logic. These frames of thought allow you to reuse code and keep things more organized.

## Start With a New Class

To kick things off, we'll create a new class called `FormValidator`.

```
1 | class FormValidator {}
```

We'll add a **constructor** function inside the class and accept two arguments. You can think of this function as the one you get for free with any class in JavaScript. The idea is to be able to call the class later on somewhere else and pass in arguments for reuse. That might not be 100% clear yet, but as we progress, it should make more sense.

```
1 | class FormValidator {  
2 |     constructor(form, fields) {  
3 |         this.form = form  
4 |         this.fields = fields  
5 |     }  
6 | }
```

We'll initialize new values to instances in the `FormValidator` class inside the **constructor** function. These values allow us to use them anywhere within the scope of the class, thanks to the **this** keyword. In this case, **this** refers to the scoped class `FormValidator`, but **this** can always change based on its scope.

The **constructor** function initializes a form and the fields within the form. My goal is to have the `FormValidator` extract the logic away, so all we have to do is pass references to a given form and its field by their identifiers or names. That will make more sense in a bit.





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## Target Form Elements

Next up, I'll create some variables that query the `DOM` for the elements we will target. Those, of course, include the form and its fields.

With those in place, we can set up a new instance of our `FormValidator` class.

```
1  const form = document.querySelector(".form")
2  const fields = ["username", "email", "password", "password_confirmatic
3
4  const accountForm = new FormValidator(form, fields)
```

The `form` variable is responsible for querying the `DOM` to find the form element on the page with a class of `.form`. The `fields` variable is an array of names referenced by each form field's `id` attribute. The names in your HTML must match the contents of the array values for proper targeting. We'll use the array values inside the `FormValidator` class to query for each field as necessary.

The `accountForm` variable is our reference to a new instance of the `FormValidator` class. We pass in the `form` and `fields` variables which initializes those inside the class for use wherever we need them.

At this point, nothing gets called from the class, so we need to add some more code to kick that action off.

```
01  class FormValidator {
02    constructor(form, fields) {
03      this.form = form
04      this.fields = fields
05    }
06
07    initialize() {
08      console.log(this.form , this.fields)
09    }
10  }
11
12  const form = document.querySelector('.form')
13  const fields = ["username", "email", "password", "password_confirmati
14
15  const accountForm = new FormValidator(form, fields)
16
17  accountForm.initialize()
```

I added an `initialize` function to the `FormValidator` class below the `constructor` function. You can name this function whatever you wish, but I'll commonly use `initialize` as a preference.

Inside the `initialize` function, I wrote a simple `console.log()` statement and passed in the values we set up within the `constructor` function. If all goes well

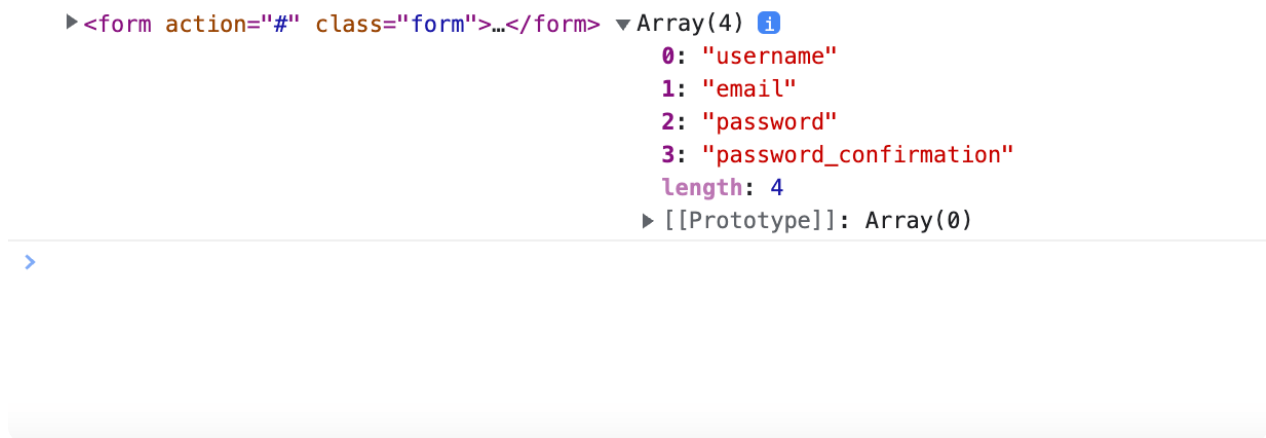


passed in the values we set up within the `constructor` function. If all goes well, this should log the instance of our form and the array of field ids I mentioned prior.

At the end of the file, I'm calling the `initialize()` function directly.

```
1 | accountForm.initialize()
```

That should log something like the following in your browser's console.



Success! We know the code so far is accurate thanks to those values outputting what we expect.

## 4. Add Form Validations on User Input

Listening to a user's input will help us preemptively validate each field. We can hook into the JavaScript `addEventListener()` method to do just that. You can listen to various events, and in this section, we'll pay attention to the `input` event specifically.

I'll make a new function in the class called `validateOnEntry()`.

```
01 | class FormValidator {
02 |   //... previous code omitted for brevity
03 |
04 |   validateOnEntry() {
05 |     let self = this
06 |     this.fields.forEach(field => {
07 |       const input = document.querySelector(`#${field}`)
08 |
09 |       input.addEventListener('input', () => {
10 |         // extracted logic to a new function
11 |         self.validateFields(input)
12 |       })
13 |     })
14 |   }
15 | }
```

A lot in these few lines of code is likely confusing. Let me explain in greater detail.



## Understanding Scope

First, we create a variable called `self` and assign it to `this`.

Setting this variable up acts as a way to target the value of `this` relative to the scope of the overarching class (`FormValidator`) from within other nested scopes.

The reason I included the `self` variable is so we can have access to the core class `FormValidator` inside the `addEventListener()` method since the scope changes if you nest any code inside the function. [Read more about Scope on MDN.](#)

## Looping Through

To properly validate each field, we'll need to loop through each array property inside the `fields` variable we set up using the `constructor` function. The code outputs each field name we want to target using the `forEach()` method.

During the loop, we use backticks to dynamically query the document (`DOM`) to find the appropriate field identified by the `id` attribute.

Finally, we use each dynamic field, assign it to an input variable and call the `addEventListener()` function. We listen for an `input` event and call a new function we'll create named `validateFields`. This function accepts a single input for validation purposes.

I chose to extract the validation logic into a new function called `validateFields()` because much of the code is reusable. Removing the code to a new function also aids in legibility from a developer's point of view.

## 5. Validating Each Field

To validate the form fields, we'll need some conditional statements along with some bells and whistles to make the interface react in real-time.

Before we write the logic for the `validateFields` function, I'll write another function responsible for the design portion. We can reuse this function later, so it makes sense to extract it to a single set of logic, which I called `setStatus`.

```
01 class FormValidator {  
02   // previous code omitted for brevity  
03  
04   validateOnEntry() {  
05     let self = this  
06     this.fields.forEach(field => {
```



```

07     const input = document.querySelector(`#${field}`)
08
09     input.addEventListener('input', () => {
10         // extracted logic to a new function
11         self.validateFields(input)
12     })
13 })
14 }
15
16 validateFields() {
17     // logic to come
18 }
19
20 setStatus(field, message, status) {
21     const successIcon = field.parentElement.querySelector('.icon-succ
22     const errorIcon = field.parentElement.querySelector('.icon-error'
23     const errorMessage = field.parentElement.querySelector('.error-me
24
25     if (status === "success") {
26         if (errorIcon) { errorIcon.classList.add('hidden') }
27         if (errorMessage) { errorMessage.innerText = "" }
28         successIcon.classList.remove('hidden')
29         field.classList.remove('input-error')
30     }
31
32     if (status === "error") {
33         if (successIcon) { successIcon.classList.add('hidden') }
34         field.parentElement.querySelector('.error-message').innerText =
35         errorIcon.classList.remove('hidden')
36         field.classList.add('input-error')
37     }
38 }
39 }

```

The `setStatus` function accepts three parameters: the field we are targeting, a message if needed, and the validation status.

Inside the function, we begin with three variables. `successIcon`, `errorIcon`, and `errorMessage`.

If you recall, each form grouping has a set of these elements in the markup. Two are SVG icons, and the other is an empty `span` that takes responsibility for displaying text content if validation fails. The `field` parameter will be how each repeated icon and `span` tag is targeted relative to its positioning in the DOM.

Below the variables are two conditional statements that check for string `status` values we'll add to the `validateFields` function.

One statement checks for `"success"` and the other for `"error"` state denoted by a status parameter that gets passed through to the `setStatus` function.

Within each conditional, you'll find more logic that toggles icon classes and resets the error messages to any message passed through to the `setStatus` function. The logic in this code is all happening in real-time as a user types into a field.



## Ensuring Fields Aren't Empty

With the `setStatus` function authored, we can now put it to use by performing the validations on each field. Depending on your forms, you may require unique validations if you have individual form fields. Maybe you don't want any fields to be blank, for example.

We'll start with that goal and ensure each field isn't blank.

```
01 class FormValidator {
02   // code omitted for brevity
03   validateFields(field) {
04     if (field.value.trim() === "") {
05       this.setStatus(field, `${field.previousElementSibling.innerText
06     } else {
07       this.setStatus(field, null, "success")
08     }
09   }
10
11   setStatus(field, message, status) {
12     // code omitted for brevity
13   }
14 }
```

The code above takes the `field` argument and targets its value. Using the `trim()` method in JavaScript, we can remove any white spaces and check if the value is an empty string.

If the input is empty, we'll use the `setStatus` function and pass the field, the query statement to find the `.error-message` span tag relative to the field, and the status of `"error"`.

If the input is *not* empty, we can use the same `setStatus` function within the `FormValidator` class to display a success state. No message is necessary for this state so we can pass `null` for the `message` argument.

## Ensuring an Email Address is Valid

When creating your own JavaScript form validation, checking for valid email addresses is an art in itself! Here's how we'll go about it:

```
01 class FormValidator {
02   // code omitted for brevity
03   validateFields(field) {
04     // Check presence of values
05     if (field.value.trim() === "") {
06       this.setStatus(field, `${field.previousElementSibling.innerText
07     } else {
08       this.setStatus(field, null, "success")
09     }
10
11     // check for a valid email address
12     if (field.type === "email") {
13       const re = /\S+@\S+\.\S+/
14       if (re.test(field.value)) {
15         this.setStatus(field, null, "success")
16     }
```



```
15         this.setStatus(field, null, success )
16     } else {
17         this.setStatus(field, "Please enter valid email address", "er
18     }
19 }
20 }
21
22 setStatus(field, message, status) {
23     // code omitted for brevity
24 }
25 }
```

Firstly, we'll make sure the field type defined with the JavaScript API is an *email* type.

We'll then leverage some `REGEX` patterns to ensure the email entered matches our expectations. The `test()` method allows you to pass in a `REGEX` pattern to return a boolean (`true` or `false` value) by "testing" it against what value is given.

If the value makes the cut, we'll again use our `setStatus` functions to display feedback to the user. We can customize the `message` value to whatever makes sense for the validation.

## Password Confirmation

Last but not least is the password confirmation validation. The goal is to ensure the password field matches the password confirmation field, and we'll do this by comparing both values.

```
01 class FormValidator {
02     // code omitted for brevity
03     validateFields(field) {
04         // Check presence of values
05         if (field.value.trim() === "") {
06             //...
07         }
08
09         // check for a valid email address
10         if (field.type === "email") {
11             //...
12         }
13
14         // Password confirmation edge case
15         if (field.id === "password_confirmation") {
16             const passwordField = this.form.querySelector("#password")
17
18             if (field.value.trim() == "") {
19                 this.setStatus(field, "Password confirmation required", "erro
20             } else if (field.value != passwordField.value) {
21                 this.setStatus(field, "Password does not match", "error")
22             } else {
23                 this.setStatus(field, null, "success")
24             }
25         }
26     }
27
28     setStatus(field, message, status) {
29         // code omitted for brevity
30     }
31 }
```



```
30 |  
31 | }
```

We need to go one step further to validate multiple edge cases for the password confirmation field. The password confirmation, of course, can't be a blank field, and we also need to ensure it matches the password input's field value.

For each case, we display the appropriate status.

## 6. Validation on Submit

Our JavaScript form validation is almost complete! But we have yet to account for the submit button, a critical piece of the form itself. We'll need to repeat the process we did for the `input` event for the `submit` event using another `addEventListener()` function.

That will come from another function I'll call `validateOnSubmit()`.

```
01 | class FormValidator {  
02 |   // code omitted for brevity  
03 |   validateOnSubmit() {  
04 |     let self = this  
05 |  
06 |     this.form.addEventListener("submit", (event) => {  
07 |       event.preventDefault()  
08 |       self.fields.forEach((field) => {  
09 |         const input = document.querySelector(`#${field}`)  
10 |         self.validateFields(input)  
11 |       })  
12 |     })  
13 |   }  
14 | }
```

In the `validateOnSubmit()` function we'll target the `form` instance we set up on the `constructor` function previously. The form gives us access to the event listener type known as `submit` since those elements are tied together in HTML.

Using an `addEventListener()` function, we'll listen for the `submit` event and pass the `event` through to the function's body.

Inside the function body we can use the `preventDefault()` method to keep the form from submitting in its default manner. We want to do this to prevent any nasty data from passing if validation is not passing.

We'll again set a `self` variable assigned to `this` so we have access to the higher level of scope in our `FormValidator` class.

With this variable, we can loop through the `fields` instance initialized within the `FormValidator` class. That gets performed from within the



`addEventListener()` function.

Each field we loop through is assigned to an `input` variable and finally passed through the `validateFields` function we created previously.

A lot is happening here, but luckily we can reuse a lot of code from before to accomplish the same goals!

Clicking the **Create account** button ensures each field is valid before making it through.

## 7. Calling the Validations

The last piece of the JavaScript form validation puzzle is calling both the `validateOnEntry()` and `validateOnSubmit()` functions. If you recall, we called the `initialize()` function at the beginning of this tutorial. I'll use it to call the two functions.

```
01  class FormValidator {
02      constructor(form, fields) {
03          this.form = form
04          this.fields = fields
05      }
06
07      initialize() {
08          this.validateOnEntry()
09          this.validateOnSubmit()
10      }
11
12      //code omitted for brevity...
13  }
```

## The Final Result

With all our validations and functions in place, here's the final JavaScript form validation code for reference. Much of this code is reusable, and you can always add additional field types.

```
001  class FormValidator {
002      constructor(form, fields) {
003          this.form = form
004          this.fields = fields
005      }
006
007      initialize() {
008          this.validateOnEntry()
009          this.validateOnSubmit()
010      }
011
012      validateOnSubmit() {
013          let self = this
```





```
014
015     this.form.addEventListener("submit", event => {
016         event.preventDefault()
017         self.fields.forEach((field) => {
018             const input = document.querySelector(`#${field}`)
019             self.validateFields(input)
020         })
021     })
022 }
023
024 validateOnEntry() {
025     let self = this
026     this.fields.forEach((field) => {
027         const input = document.querySelector(`#${field}`)
028
029         input.addEventListener("input", () => {
030             self.validateFields(input)
031         })
032     })
033 }
034
035 validateFields(field) {
036     // Check presence of values
037     if (field.value.trim() === "") {
038         this.setStatus(field, `${field.previousElementSibling.innerTex
039     } else {
040         this.setStatus(field, null, "success")
041     }
042
043     // check for a valid email address
044     if (field.type === "email") {
045
046         const re = /\S+@\S+\.\S+/
047
048         if (re.test(field.value)) {
049             this.setStatus(field, null, "success")
050         } else {
051             this.setStatus(field, "Please enter valid email address", "e
052         }
053     }
054
055     // Password confirmation edge case
056     if (field.id === "password_confirmation") {
057
058         const passwordField = this.form.querySelector("#password")
059
060         if (field.value.trim() == "") {
061             this.setStatus(field, "Password confirmation required", "err
062         } else if (field.value != passwordField.value) {
063             this.setStatus(field, "Password does not match", "error")
064         } else {
065             this.setStatus(field, null, "success")
066         }
067     }
068 }
069
070 setStatus(field, message, status) {
071     const successIcon = field.parentElement.querySelector(".icon-suc
072     const errorIcon = field.parentElement.querySelector(".icon-error
073     const errorMessage = field.parentElement.querySelector(".error-m
074
075     if (status === "success") {
076         if (errorIcon) {
077             errorIcon.classList.add("hidden")
078         }
079
080         if (errorMessage) {
081             errorMessage.innerText = ""
082         }
083     }
084 }
```



```
083
084     successIcon.classList.remove("hidden")
085     field.classList.remove("input-error")
086 }
087
088     if (status === "error") {
089         if (successIcon) {
090             successIcon.classList.add("hidden")
091         }
092
093         field.parentElement.querySelector(".error-message").innerText
094         errorIcon.classList.remove("hidden")
095         field.classList.add("input-error")
096     }
097 }
098 }
099
100 const form = document.querySelector(".form")
101 const fields = ["username", "email", "password", "password_confirmat
102
103 const validator = new FormValidator(form, fields)
104 validator.initialize()
```

## A Word of Warning!

If a user toggles off JavaScript in their browser, you risk letting insufficient data into your website or application. This problem is the downside to using only front-end form validation.

I would advise adding a fallback solution for form validations using something like backend code.

I write a lot of applications using front-end and backend code using a web application framework like [Ruby on Rails](#). The framework handles a lot of these problems for me along with enhanced security features.

Even if I add front-end validation, I'll almost always take the extra initiative to add backend validations to an application or website.

Adding backend validations ensures that if JavaScript happens to be disabled in a browser or maybe a fluke incident occurs, I can still depend on the backend code (typically on a server) to keep insufficient data out.

## Closing Thoughts

While there are many enhancements we can make to this sample account creation form, I hope the approaches taken in this tutorial have shed some light on ways you can enhance your own forms with simple JavaScript validation.

Remember, front-end validations are only part of the piece of properly



validating form submission data.

A backend solution or some intermediary step to filter the data is a significant barrier to keeping the nasty data from reaching wherever you store your data. Happy coding!

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We have a growing library of front-end JavaScript tutorials on Tuts+ to help you with your learning:



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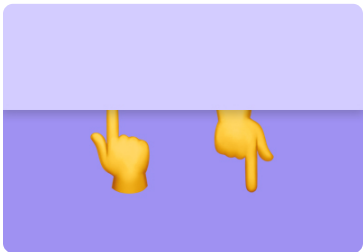
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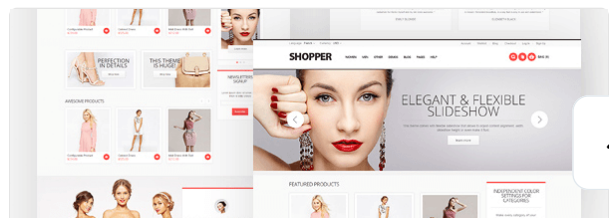
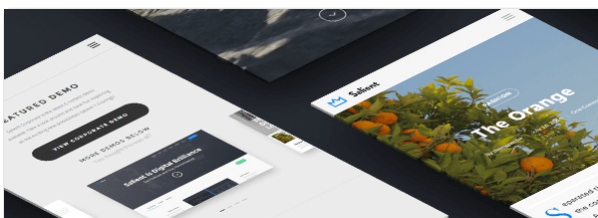
St. Louis, Missouri

I write, teach, and love learning all things web. While I specialize in product design I'm a man of many hats who has worked with mom and pop shops to fortune 500 corporations.

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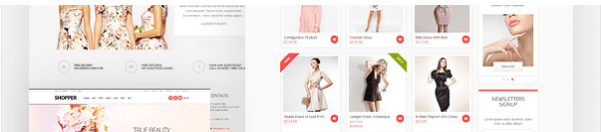
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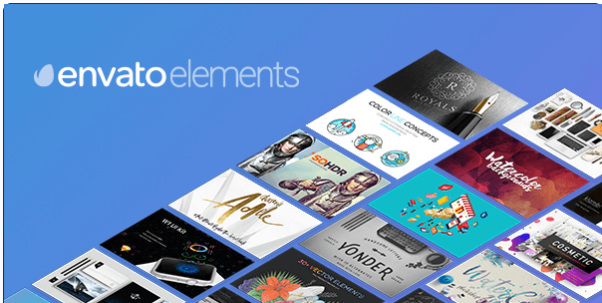
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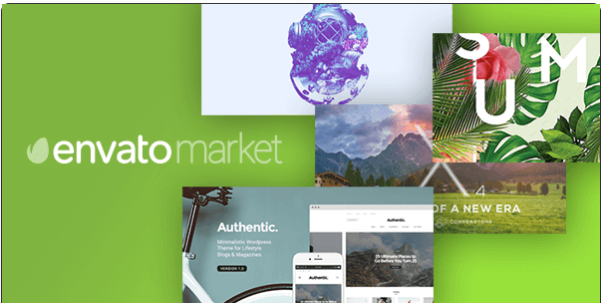
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