Displaying Actual Errors

The first step to getting error messages to show up when validation fails

WE'LL COVER THE FOLLOWING ^

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We now have a basic form, some JavaScript to execute validation on each input at the correct time, a way to distinguish which field is which, and a set of validation rules to apply to each one. Let's put the pieces together now!

Output		
	JavaScript	
	HTML	
	CSS (SCSS)	
Name First	Last	
Choose your username		
Create a password		
Confirm your password-		
Birthday		
Month Day	Year	
Mobile phone		
Your current email addre	SS	





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- Create a unique error class
 - This lets us do things only with expected errors that arise from validation by checking instanceof.
- Introduce a try/catch for validation.
 - The catch clause is where the error view is rendered.
 - We could have used enums and passed back something like {status: 'error', message: 'blah'} for errors and {status: 'success'} to signal passing validation, but if the set of return possibilities are many different ways of specifying a type of error and one way of specifying success, we should make use of error handling which covers this exact case. We want to avoid defining a new ad-hoc object, its schema (what fields it contains) is just another thing to keep track of.
- Each input maps to the validation rule through a mapping.
 - Cleaner than a switch statement.
- validate functions that match the previous lesson, except they throw an error when validation fails instead of returning false.

Hopefully, this all makes sense. I skipped password and confirmPassword for now because that uses some special handling. Try playing around with this form and check for yourself.

When you implement a new rule, how do you check that it works? Testing it manually doesn't give us confidence, so let's adjust our test and see if it passes.

Output
JavaScript
HTML

Test Results

validateName(asdf) passes validateName(Alfred) passes validateName(ALFRED) passes

validateName(@) fails with message: Please enter a valid name validateName() fails with message: Please enter a valid name validateName(blah\$) fails with message: Please enter a valid name validateName(123) fails with message: Please enter a valid name

validateEmail(asdf@asdf.com) passes validateEmail(what@what.au) passes validateEmail(a@a.c) passes

validateEmail(@asdf.com) fails with message: Please enter a valid email validateEmail(what@what) fails with message: Please enter a valid email validateEmail() fails with message: Please enter a valid email validateEmail(...) fails with message: Please enter a valid email





The source code JavaScript is in a hidden file, but note that this test runner HTML would import js files from the source before the test so that the test can reference functions in the source.

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- Instead of passing in a function that returns a boolean, properly pass in the validateX functions.
- Instead of calling the functions in the runner and interpreting them as boolean results, we use the try branch for success and catch for failure.
- Messages are wrapped in a span that colors the text red if the test failed.
- A test failure means the passing of validation does not match what actually happened. This occurs when the try block runs completely, but failure was expected, or the catch block runs, but success was expected.