Restrictions and Month Selector

Let's talk about restrictions to further help the user fill in their form and provide a month selector.

Restrictions

We talked briefly about helping users with the forms we provide by restricting input. If they have no feedback confirmation that their input was submitted, they get the hint that something is wrong faster than reading a message would.

Beware that, this would only work if the mistake is obvious. If you block the number '0' when the user is inputting '1990' because there's an age restriction, they might think your form is buggy!

Output
JavaScript
HTML

Name

First | Last

Choose your username

Create a password

Confirm your password

Birthday

Month | Day | Year

Mobile phone

Your current email address

Try playing with the day and year fields.

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- Apply the same pattern as we did with the guide and validating:
  - Namely, add a mapping from the field to whatever's implemented for that field.
- We need to pass in `event` to this because we want to stop the event (the keyboard press) from making its way to the input.
- We could've used HTML primitives like `maxlength` to restrict length at the HTML file and have the rest of the restrictions at the JavaScript level, but I don't like mixing that. As convenient as that is, HTML should have as little business logic as possible.
- Allow special keys to propagate through. We want to allow the user to submit through pressing enter and fix mistakes by backspacing.

Month Selection

If you'll recall, the month selection is a hack due to current restrictions that

If you'll recall, the month selection is a hack due to current restrictions that prevent the level of customization to `<select>` inputs that we want.

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 address

Changelist

- Create a template and dynamically position a new div. This should be very familiar to how we did the tooltip!

- Move the `data-field` to the div selector, and update the class name to be more BEM-like.
  - We won't ever need to add a listener to the hidden input, so no need to have it there.

- Add an event listener to `document.body` that hides the month selector when appropriate.
  - The line, `event.target && event.target.dataset && ...` might seem a little odd. It's a little trick to avoid having to write `if (...) return`

checks, since not all click events might have datasets.

- Add event listeners to each of the list items to set the hidden month field so that it can be transmitted properly as part of the form to the backend (not implemented).
- We must take care to remove event listeners when needed. This is a common cause of memory leaks, which, if your applications run for a long time, can be a serious issue!
- We also set the visible month field to the innerHTML of the selection.
- Add CSS rules to the selector

It's ugly, but all the functionality is there – give it a try!