Form component summaries

General questions:

- How does USWDS want us to develop guidelines and code across two repos
- How does USWDS want us to complete usability and accessibility research

Autocomplete / Combo Box

Difficulty: High

Candidate to lift from:
https://alphagov.github.io/accessible-autocomplete/examples/

About:
Developed by the gov.uk team. This element can be used for both autocomplete text box and a combobox. Accessibility is difficult on this type of component, so it's good to see one from a government digital service that takes accessibility very seriously.

- Gov.uk heavily researches their components
- Jared spoke with one of the developers, mentioned that they test with users with disabilities. This is currently the most complex design system component in gov.uk
- USWDS has leveraged gov.uk patterns in the past
- Can be used as a progressive enhancement for a standard select box

Questions/Thoughts on implementation?
We will need to explore the code to see how easily it can fit into USWDS codebase in a manner consistent with the existing components.

Calendar

Difficulty: High

Candidate to lift from:
https://unfetteredthoughts.net/a11y/calendar/calendar.html

About:
This is another component in which accessibility is often a challenge. This example was found on an accessibility advent calendar. It seems to include the needs of what a calendar should include

- Keyboard controls
- Instructions for using keyboard controls (only available through keyboard navigation, but this can likely be fixed with CSS
- Controls for switching years and months

Guidance should strongly communicate that calendars are important day of the week, such as scheduling.

Questions/thoughts about implementation

- The example is to demonstrate best practices and does include all features
- Uses day.js https://github.com/iamkun/dayjs
- Might need significant refactoring

Alternate candidate to lift from:
https://github.com/alphagov/govuk-design-system-backlog/issues/17
https://github.com/alphagov/govuk-Date picker · Issue #17 · alphagov/govuk-design-system-backlogdesign-system-backlog/issues/17#issuecomment-432982850

This is a github issue with some examples by the Gov.uk folks. The comment I've pointed to specifically only calls the datepicker component when the browser does not support the native html5 date input.

This would be challenging to evolve to a range picker.

File upload

Difficulty: low to moderate

Status:
To-do. Might need to implement from scratch

- Drag/Drop is supported natively on file input
- Need to use CSS and JS to provide drag/drop area and interactions
- Still need to test for accessibility
- Cannot override the default behavior

Button Groups

Difficulty: low
Status:
To-do. Done from scratch.

- Will need multiple variants
- When buttons are connected, such as in application design
- Button row - buttons not connected such as in form
- Future iteration: overflow menus

Tooltips

Difficulty: low

Status:
To-do. Done from scratch

- Creat variants: arrow direction (if UI includes it)
- Handle accessibility
- Long text vs short text
- Need strong guidance on when not to use so important content is not hidden

Character counter

Difficulty: low

Status:
Can lift: https://design-system.service.gov.uk/components/character-count/

Follow-up

Difficulty: Medium

Status:
Can lift: https://ussba.github.io/certify-design-system-documentation/patterns/questions.html

- Need to handle accessibility
- Need to handle how to consider required vs optional fields
- Must be wary to avoid accidentally submitting info