intopia

Low vision and keyboard users, focus order and management

Engineering Session 2

What will we cover?

Session 2:

- Part 1: Low vision users
- Part 2: Keyboard use
- Part 3: Focus order
- Part 4: Focus management

Part 1: Low vision users

May use:

- System settings (e.g. magnification, font sizing, colour choices)
- Browser-based page zoom (e.g. increase to 400%)
- Enlarge text to 200% (e.g. Zoom text only extension)
- Screen magnifier software (e.g. ZoomText)
- Screen reader software (e.g. JAWS, NVDA, VoiceOver, Narrator)

Let's meet Cammie, a ZoomText user - who **sometimes inverts the screen colours** to make information easier to see.

Frustrations:

- Lack of colour contrast
- Pop-ups that appear off-screen
- Right-aligned content - especially interactive elements
- Layouts that break when zoomed
- Complex components that do not work when magnified

Some quick tests:

- ColourBlindly (Chrome)
- Colour Contrast Checker (Chrome)
- Page zoom
- Text-only zoom (Chrome)

Part 2: Keyboard use

May use:

- Spelling and grammar software (e.g. Grammarly, MS Word)
- Screen masking software (e.g. Read&Write)
- Text to speech (e.g. Speechify)
- Screen reader software (e.g. JAWS, NVDA, VoiceOver, Narrator)

Let's meet Judith, a head-wand user - who also interacts with technology **via the equivalent of a keyboard interface**.

Frustrations:

- The inability to navigate using the keyboard only
- Poor methods of navigating content
- Not enough time to complete tasks

Some quick tests:

- Access all functionality via keyboard only

- Ability to bypass blocks
- Ability to bypass infinite scrolling

Part 3: Focus order

To discuss:

- Why is focus order important
- TAB order vs reading order (linearisation)

Some quick tests:

- Is focus order intuitive across pages/processes?
- Is focus order intuitive within components?

Example to review:

- Table rows within "Bills to pay" page

Part 4: Focus management

To discuss:

- Why is focus management important

Some quick tests:

- Is focus management intuitive across pages/processes?
- Is focus manage intuitive within components?

Example to review:

- Modals. Teams choose what to focus when the modal opens.
- SPA "page" navigation.