VPAT Accessibility Conformance Report

(Based on ITI VPAT©)

|  |  |
| --- | --- |
| **Name of Product** | **EMSS** |
| **Date Last Updated** | **March 5, 2025** |
| Completed by | **Jean Ducrot** (Elsevier Digital Accessibility Team) |
| **Applicable Standards/Guidelines** | This document rates EMSS according to the [W3C WCAG 2.1 A and AA](https://www.w3.org/TR/WCAG21/) requirements. |
| **Contact for More Information** | Elsevier Digital Accessibility Team [accessibility@elsevier.com](mailto:accessibility@elsevier.com?subject=Accessibility%20and%20Shadow%20Health) |
| **Testing Tools and Methods** | * **Hands-on keyboard operation** * **DevTools/Code inspection** * **Mozilla Firefox 128 Chrome 133 on Windows 11** * **NVDA screen reader 2024.1** * **JAWS Screen reader 2025.2412.50** * **ARC Toolkit Extension 5.7.6** * **HeadingsMap Extension 4.8.7** * **Color Contrast Analyzer** * [W3C Web Accessibility Initiative (WAI) Pages](https://www.w3.org/WAI/) * [Elsevier Accessibility Checklist](http://romeo.elsevier.com/accessibility_checklist/) |
| **Document Sections** | This review document includes all WCAG 2.1 A and AA checkpoints, organized into 7 logical sections:   * Visuals * Keyboard * Headings and Structure * Labeling * Multimedia * Usability * Mobile User Experience |
| **Pages Covered** | * **Login** * **Dashboard** * Profile * Admin * The following tabs on the Edit Book page: setup, users, workflow, contracts, options, questions, allotments, project info |
| **Terms** | * **Supports: The functionality of the product has at least one method that meets the criteria without known defects or meets with equivalent facilitation.** * **Partially supports: Some functionality of the product does not meet the criteria.** * **Does not support: Majority of functionality of the product does not meet the criteria.** * **Supports (N/A): According to W3C on conformance, "If there is no content to which a success criterion applies, the success criterion is satisfied."** |
| **Notes/Terminology** | * **“AT” stands for Assistive Technology such as screen readers, voice input, etc.** |

## Conformance Summary

| **WCAG 2.1 Success Criterion** | **Level** | **Evaluation** |
| --- | --- | --- |
| 1.1.1: Non-text Content | A | Partially supports |
| 1.2.1: Audio-only and Video-only (Prerecorded) | A | Supports (N/A) |
| 1.2.2: Captions (Prerecorded) | A | Supports (N/A) |
| 1.2.3: Audio Description or Full Text Alternative | A | Supports (N/A) |
| 1.2.4: Captions (Live) | AA | Supports (N/A) |
| 1.2.5: Audio Description | AA | Supports (N/A) |
| 1.3.1: Info and Relationships | A | Partially supports |
| 1.3.2: Meaningful Sequence | A | Supports |
| 1.3.3: Sensory Characteristics | A | Supports |
| 1.3.4: Orientation (2.1) | AA | Supports |
| 1.3.5: Identify Input Purpose (2.1) | AA | Supports |
| 1.4.1: Use of Color | A | Supports |
| 1.4.2: Audio Control | A | Supports (N/A) |
| 1.4.3: Contrast (Minimum) | AA | Partially supports |
| 1.4.4: Resize text | AA | Supports |
| 1.4.5: Images of Text | AA | Supports |
| 1.4.10: Reflow (2.1) | AA | Does not support |
| 1.4.11: Non-Text Contrast (2.1) | AA | Partially supports |
| 1.4.12: Text Spacing (2.1) | AA | Partially supports |
| 1.4.13: Content on Hover or Focus (2.1) | AA | Does not support |
| 2.1.1: Keyboard | A | Partially supports |
| 2.1.2: No Keyboard Trap | A | Supports |
| 2.1.4: Character Key Shortcuts (2.1) | A | Supports (N/A) |
| 2.2.1: Timing Adjustable | A | Supports |
| 2.2.2: Pause, Stop, Hide | A | Supports (N/A) |
| 2.3.1: Three Flashes or Below Threshold | A | Supports (N/A) |
| 2.4.1: Bypass Blocks | A | Supports |
| 2.4.2: Page Titled | A | Partially supports |
| 2.4.3: Focus Order | A | Partially supports |
| 2.4.4: Link Purpose (In Context) | A | Partially supports |
| 2.4.5: Multiple Ways | AA | Supports |
| 2.4.6: Headings and Labels | AA | Supports |
| 2.4.7: Focus Visible | AA | Supports |
| 2.5.1: Pointer Gestures (2.1) | A | Supports |
| 2.5.2: Pointer Cancellation (2.1) | A | Supports |
| 2.5.3: Label in Name (2.1) | A | Partially supports |
| 2.5.4: Motion Actuation (2.1) | A | Supports (N/A) |
| 3.1.1: Language of Page | A | Supports |
| 3.1.2: Language of Parts | AA | Supports (N/A) |
| 3.2.1: On Focus | A | Supports |
| 3.2.2: On Input | A | Does not support |
| 3.2.3: Consistent Navigation | AA | Supports |
| 3.2.4: Consistent Identification | AA | Partially supports |
| 3.3.1: Error Identification | A | Partially supports |
| 3.3.2: Labels or Instructions | A | Partially supports |
| 3.3.3: Error Suggestion | AA | Partially supports |
| 3.3.4: Error Prevention (Legal, Financial, Data) | AA | Supports |
| 4.1.1: Parsing | A | Partially supports |
| 4.1.2: Name, Role, Value | A | Does not support |
| 4.1.3: Status Messages (2.1) | AA | Partially supports |

## WCAG 2.1 A and AA Success Criteria

### Visuals

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [1.1.1: Non-Text Content](https://www.w3.org/TR/WCAG21/#non-text-content) (A) Provide text alternatives for non-text content (e.g. images) | Partially supports | Many images and icons have appropriate text equivalents.  **Exceptions:**   * Dashboard page - Icons next to export to spreadsheet links: the icons used to indicate an item is exportable have the same alt text and the link that follows it which leads to duplicative announcements for screen reader users. * Profile page - Icon on change password button: decorative icon not hidden from assistive technologies, causing unnecessary announcement. |
| [1.3.3: Sensory Characteristics](https://www.w3.org/TR/WCAG21/#sensory-characteristics) (A) Do not rely on sensory characteristics of components such as shape, size, visual location, orientation, or sound | Supports | There are no instructions or areas of content which rely solely on sensory characteristics. |
| [1.4.1: Use of Color](https://www.w3.org/TR/WCAG21/#use-of-color) (A) Color is not used as the only visual means of conveying info | Supports | In most instances, when color is used as a means of conveying information, another visual method is also used to convey the information without color. |
| [1.4.3: Color Contrast (Minimum)](https://www.w3.org/TR/WCAG21/#contrast-minimum) (AA) Text has enough contrast with the background (4.5:1 for small text and 3:1 for large text) | Partially supports | Text has sufficient contrast with its corresponding background in most areas.  **Exceptions:**   * Edit Book workflow - Setup tab: The color applied to tab fonts on mouse hover does not meet the minimum text contrast requirements, making them very difficult to read. * Edit book workflow - workflow tab: Link text on hover lacks contrast with the page background. |
| [1.4.4: Resize Text](https://www.w3.org/TR/WCAG21/#resize-text) (AA)  Text can be enlarged up to 200% without loss of functionality. | Supports | Text may be enlarged to 200% while preserving functionality of content in most instances. |
| [1.4.5: Images of Text](https://www.w3.org/TR/WCAG21/#images-of-text) (AA) Text is used rather than images of text, except where the presentation of text is essential, such as logos | Supports | No images of text are used other than for logos or essential presentation in most areas. |
| [1.4.10: Reflow](https://www.w3.org/TR/WCAG21/#reflow) (AA) Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for:   * Vertical scrolling content at a width equivalent to 320 CSS pixels; * Horizontal scrolling content at a height equivalent to 256 CSS pixels.. | Does not support | Most pages are not responsive. A few pages can be zoomed to 400% without necessitating horizontal scrolling, nor loss of functionality/content.  **Exceptions:**   * Login page - Entire page: Page content is not responsive to zoom level changes, requiring low-vision users to scroll both horizontally and vertically to read and interact with the content. * Profile page: The page does not reflow properly and requires users to scroll in two dimensions when the page content is enlarged to 400% * Admin page: The page content does not reflow, making it difficult or impossible for low-vision users to magnify and interact with all elements and text effectively. * Edit Book workflow - all tabs: The page does not reflow properly and requires users to scroll in two dimensions when the page content is enlarged to 400%. |
| [1.4.11: Non-Text Contrast](https://www.w3.org/TR/WCAG21/#non-text-contrast) (AA)  User interact components and graphical objects have a contrast ratio of at least 3:1 against adjacent color(s). | Partially supports | Almost all non-text UI components and graphical objects have at least a 3:1 contrast ratio against surrounding colors.  **Exceptions:**   * Many pages - keyboard focus indicator: The orange color used for indicating where the keyboard focus is currently located on a page lacks contrast with the gray color frequently used on this site. |
| [1.4.12: Text Spacing](https://www.w3.org/TR/WCAG21/#text-spacing) (AA)  In content implemented using markup languages that support the following text style properties, no loss of content or functionality occurs by setting all the following and by changing no other style property:   * Line height (line spacing) to at least 1.5 times the font size; * Spacing following paragraphs to at least 2 times the font size; * Letter spacing (tracking) to at least 0.12 times the font size; * Word spacing to at least 0.16 times the font size. | Partially supports | Users may adjust the text spacing of content on pages to the minimum baseline properties without causing loss of content or functionality.  **Exceptions:**   * Admin page: Customizing text spacing on the page causes content to overlap making it hard or impossible to read |
| [1.4.13: Content on Hover or Focus](https://www.w3.org/TR/WCAG21/#content-on-hover-or-focus) (AA)  Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:   * Dismissible * Hoverable * Persistent | Does not support | Tooltips are present on most pages, and their content is only accessible while the mouse pointer hovers over the tooltip trigger element. |
| [2.3.1: Three Flashes or Below Threshold](https://www.w3.org/TR/WCAG21/#three-flashes-or-below-threshold) (A) No more than three flashes in a 1-second period, or the flashes are below the defined thresholds | Supports (N/A) | No flashing content exists. |

### Keyboard

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [1.3.2: Meaningful Sequence](https://www.w3.org/TR/WCAG21/#meaningfuusequence) (A)  The correct reading sequence can be programmatically determined | Supports | The correct reading sequence is logical and programmatically determinable. |
| [2.1.1: Keyboard](https://www.w3.org/TR/WCAG21/#keyboard) (A)  All functionality is available from a keyboard, except for tasks such as drawing | Partially supports | Most standard web page content and functionality is keyboard operable across pages.  **Exceptions**:   * Many pages - Add Special Characters Menu: Keyboard focus is not directed to the special characters dialog upon opening. * Login page - Show Password Button: The element is not keyboard focusable or operable. * Dashboard page - Interactive section headers: Although these elements are clickable for mouse users, they cannot be operated using a keyboard * Profile page - Revert Changes button instructions: instructions located in tooltip can be missed by blind screen reader users depending on verbosity settings and are inaccessible to keyboard only users * Profile page – “Why should I care?” tooltip: The element is focusable and lacks an interactive role. This makes its purpose unclear to non-sighted assistive technology users and the content is only presented on mouse hover. * Admin page - What's this tooltip: The tooltip is not accessible to keyboard users. * Admin page - scheduled messages tooltip: The tooltip is not accessible to keyboard users. * Edit book workflow - Users tab: Instructions for the checkboxes to enable contact methods with users are provided only on mouse hover. * Edit book workflow – All Tabs: Tooltips on question mark icons are not keyboard accessible. * Edit book workflow - workflow tab: The tooltip on the "add workflow step here" button in each row is not accessible via keyboard. * Edit book workflow - workflow tab: The tooltip on the disabled "delete this row" button is not keyboard accessible. * Edit book workflow - Allotments tab: Keyboard focus is not automatically set to the Spec Name input when the dialog opens. * Edit book workflow - Project Info tab: The control for resizing the notes text area is neither keyboard focusable nor operable. |
| [2.1.2: No Keyboard Trap](https://www.w3.org/TR/WCAG21/#no-keyboard-trap) (A)  The user can use the keyboard to move through page elements and is not trapped on a particular element | Supports | No pages have a keyboard trap. |
| [2.1.4: Character Key Shortcuts](https://www.w3.org/TR/WCAG21/#character-key-shortcuts) (A)  If a keyboard shortcut is implemented in content using only letter (including upper- and lower-case letters), punctuation, number, or symbol characters, then at least one of the following is true:   * Turn off * Remap * Active only on focus | Supports (N/A) | The site does not use any character key shortcuts. |
| [2.4.3: Focus Order](https://www.w3.org/TR/WCAG21/#focus-order) (A)  Users can tab through the elements of a page in a logical order | Partially supports | Tab order is largely logical across the site and preserves the meaning and operability of content in most instances.  **Exceptions:**   * Profile page - Invisible focusable elements: There are several invisible focusable elements on the page that create unnecessary tab stops and chatter for keyboard and assistive technology users * Profile page - Special characters dialog: the dialog is not next in the focus order after its trigger element making it difficult for keyboard and assistive technology users to focus. * Edit book workflow - Users tab: Each role link is accompanied by a linked icon that offers the same function, creating unnecessary tab stops for keyboard users. * Edit book workflow - workflow tab: there are two back-to-back buttons placed below the workflow table to add a new workflow step. * Edit book workflow - workflow tab: Keyboard users must press the Tab key twice to get through each input field in the due date column. * Edit book workflow - Project Info tab: Some input fields appear disabled but are still focusable via keyboard. |
| [2.4.7: Focus Visible](https://www.w3.org/TR/WCAG21/#focus-visible) (AA)  The page element with the current keyboard focus has a visible focus indicator | Supports | Almost all elements across the site have a decent visible indication of focus – the focus indicator is typically a prominent dashed outline. |
| [3.2.1: On Focus](https://www.w3.org/TR/WCAG21/#on-focus) (A)  When a UI component receives focus, this does not trigger unexpected actions. | Supports | Focusable elements do not cause unexpected actions/changes of context when receiving focus. |

### Headings and Structure

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [1.3.1: Information and Relationships](https://www.w3.org/TR/WCAG21/#info-and-relationships) (A)  Info, structure, and relationships can be programmatically determined | Partially supports | Most content is distinguishable via semantic structure and relationships. A logical heading order reflecting page organization and content is programmatically determinable on most pages. Most input elements have programmatically determinable labels. HTML sectioning elements/landmark roles demarcate content regions.  **Exceptions:**   * All pages - Missing Main Landmark: All pages lack a main landmark element * All pages - Main navigation: Links that are not organized within a list structure hinder screen reader users from efficiently determining the total number of links available. * All pages - Main navigation: element at the top of the page lacks a navigation role and an accessible name, making it difficult for assistive technology users to identify and navigate. * Login page - Heading structure: Visual heading structure on the page does not match its semantic structure * Login page - login form: Content structured in HTML tables creates confusing navigation for screen reader users * Login page - Email and password fields: both inputs are missing autocomplete and required attributes * Dashboard page - Interactive section headers with nested links: Nested interactive elements create significant usability challenges for assistive technology users. * Dashboard page - Main landmark: The absence of a designated main landmark on the page prevents screen reader users from quickly identifying the primary content area. * Dashboard page - Banner Landmark: The banner landmark at the top of the page fails to include the main navigation, which can hinder effective navigation for assistive technology users. * Dashboard page - Container below each section disclosure trigger element: each section on the page can be expanded by clicking on the section title but the panel it reveals is hidden from assistive technologies using aria-hidden="true" * Dashboard page - Page heading structure: The heading structure used on the page is inconsistent with the page's visual appearance which can lead to confusion for blind users. * Dashboard page - Positive number link next to primary delegate: Repeating identical accessible names across multiple elements can create confusion for assistive technology users, as it may lead to misunderstandings about the context and functionality of those elements. * Profile page - ORCID and Login Information sections: The content across sections of the page is structured using invisible HTML tables, which can create confusion for users, especially those relying on screen readers. * Profile page - Degrees, Credentials, & Certification section: The content in this section is structured using an invisible HTML table, which can create confusion for users, especially those relying on screen readers * Profile page - Name and Contact information form: While all required fields in the form have visible labels indicating they are mandatory; this information is not communicated to screen reader users. * Profile page - Phone field instructions: instructions are not semantically connected to the corresponding input field, making it possible for blind users to miss them. * Profile page - Degrees section tooltip trigger element: The tooltip content is not accessible to blind assistive technology users. * Admin page - headings: Text visually identifiable as headings is not identified as headings in the code. * Edit Book workflow - Setup tab: the headings structure on the page is not visually and semantically in sync. * Edit Book workflow - all tabs: the page is laid out using html tables. * Edit Book workflow - Setup tab: The instructions provided for several fields on the page are not semantically linked to the fields or controls they apply to. * Edit book workflow - Users tab: checkboxes to enable contact methods with users are not semantically grouped. * Edit book workflow - all tabs: The semantic heading structure on the page does not reflect its visual heading structure. * Edit book workflow - all tabs: Related checkboxes and radio buttons are not properly semantically grouped. * Edit book workflow - Questions tab: The confirm question deletion modal is not semantically implemented as a modal. * Edit book workflow - Project Info tab: Several related fields are not semantically grouped. |
| [2.4.1: Bypass Blocks](https://www.w3.org/TR/WCAG21/#bypass-blocks) (A)  Users can bypass repeated blocks of content. | Supports | Each page features a “Skip to Main Content” skip navigation link. On most pages, a logical heading order and landmarks demarcating various content regions allow AT users to conveniently jump to different areas of content. |
| [2.4.6: Headings and Labels](https://www.w3.org/TR/WCAG21/#headings-and-labels) (AA)  Headings and labels are clear and consistent. | Supports | Headings and labels used are typically clear and descriptive. For example, most pages feature visually distinct and programmatically determinable main and secondary headings to help distinguish content. |
| [3.1.1: Language of Page](https://www.w3.org/TR/WCAG21/#language-of-page) (A)  The language of the page is specified | Supports | The default page language is appropriately defined on all pages. |
| [3.1.2: Language of Parts](https://www.w3.org/TR/WCAG21/#language-of-parts) (AA)  Specify the language of text passages that are in a different language than the default language of the page. | Supports (N/A) | There are no sections of text that do not match the default language of the page. |
| [4.1.1: Parsing](https://www.w3.org/TR/WCAG21/#parsing) (A)  Use valid, error-free HTML | Partially supports | HTML and CSS typically pass concerning these 4 specific criteria:   1. elements have complete start and end tags, 2. elements are nested according to their specifications 3. elements do not contain duplicate attributes 4. any IDs are unique, except where the specifications allow these features.   Note: There may be other general HTML validation errors outside the scope of this criterion. WCAG 2.1 Errata notes: “This Success Criterion should be considered as always satisfied for any content using HTML or XML.” |

### Labeling

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [1.3.5: Identify Input Purpose](https://www.w3.org/TR/WCAG21/#identify-input-purpose) (AA)  The purpose of each input field collecting information about the user can be programmatically determined when:   * The input field serves a purpose identified in the Input Purposes for User Interface Components section; and * The content is implemented using technologies with support for identifying the expected meaning for form input data. | Supports | The only pages featuring applicable form elements that collect such information about the user are Edit Profile and Registration. The appropriate autocomplete attributes are implemented on several fields to facilitate auto-fill. |
| [2.4.2: Page Titled](https://www.w3.org/TR/WCAG21/#page-titled) (A)  The page has a title describing its topic or purpose | Partially supports | A descriptive page title that identifies content/purpose is present for most pages.  **Exceptions:**   * Many pages have the generic title "EMSS." |
| [2.4.4: Link Purpose (In Context)](https://www.w3.org/TR/WCAG21/#link-purpose-in-context) (A)  The purpose of each link can be determined from the link text or surrounding context. | Partially supports | An identifiable purpose may be deduced for almost all links from the link text or surrounding context.  **Exceptions:**   * Edit Book workflow - Setup tab: The purpose of the links provided on the page for the different user roles need more context * Edit Book workflow - Setup tab: The project link at the top of the page lack context |
| [2.5.3: Label in Name](https://www.w3.org/TR/WCAG21/#label-in-name) (A)  For user interface components with labels that include text or images of text, the name contains the text that is presented visually. | Partially supports | Most user interface components that have visible text contain that text consistently within the accessible name.  **Exceptions:**   * Admin page - Search By filter text input: The element has an incorrect accessible name which is hard to understand for non-sighted users. * Edit Book workflow - Setup tab: The two text inputs visible on the page lack an accessible name |
| [3.2.4: Consistent Identification](https://www.w3.org/TR/WCAG21/#consistent-identification) (AA)  UI components used across the web site are identified consistently on every page. | Partially supports | Most components are consistent across the site, and identified consistently where they perform the same function across pages.  **Exceptions:**   * Login page - Links: Links are inconsistently styled which makes them hard to identify visually |
| [3.3.1: Error Identification](https://www.w3.org/TR/WCAG21/#error-identification) (A)  Input errors are clearly marked and described to the user. | Partially supports | In most instances, errors are identified and presented well visually. For many inputs, errors are typically validated before form submission. Error messages that offer specific feedback are presented adjacently and visually distinguished via different text color (red). Error messages are announced to AT in some instances. Several other error states are not programmatically determinable.  **Exceptions:**   * Login page - Email and password fields: Individual field in error is not visually identifiable * Login page - Email and password fields: Fields do not have the `aria-invalid` attribute set to `true` when an error occurs. * Admin page - combobox error feedback pattern: When an error is triggered while interacting with the “Edit a Title or Archive a title” dropdown, the error message is displayed twice at the top of the screen. * Edit book workflow - Users tab: Errors raised in the “add new user” dialog appear twice at the top of the container and the corresponding field is not visually identifiable. * Edit book workflow - workflow tab: Pressing the save workflow steps button successfully cause an error message to appear in a dialog but the fields in error are not visually or semantically identified. |
| [3.3.2: Labels or Instructions](https://www.w3.org/TR/WCAG21/#labels-or-instructions) (A)  Items requiring user input are clearly labeled or have clear instructions. | Partially supports | Labels or instructions are provided for most form elements, most of which are programmatically associated with their inputs.  Note: see SC 1.3.1 for exceptions where visible labels may not be programmatically associated with inputs.  **Exceptions:**   * Dashboard page - Unlabeled checkbox in other projects table: The unlabeled checkbox provides essential functionality that is not visually communicated to sighted users, while screen reader users receive unnecessary instructions instead of a concise accessible name. * Profile page - Required instructions in preferred mailing address section: text is hidden from blind assistive technology users using aria-hidden="true". * Admin page - required fields: Although some fields are visually identifiable as required, that same information is not provided to blind users. * Edit Book workflow - Setup tab: The planned Publication Date text input lacks instructions on the expected date format. The error message provided lacks specificity to be informative and it is not linked in the code to the date field. * Edit book workflow - workflow tab: The expected date format is not provided for due date fields, and entering an incorrect date erases or resets the entry. |
| [3.3.3: Error Suggestion](https://www.w3.org/TR/WCAG21/#error-suggestion) (AA)  When the user makes an input error, give suggestions for valid input. | Partially supports | The nature of content would largely not give rise to opportunities for error suggestions, but relevant helpful suggestions are occasionally provided in text. |
| [4.1.2: Name, Role, Value](https://www.w3.org/TR/WCAG21/#name-role-value) (A)  For all UI components, the name, value, and role can be programmatically determined. | Does not support | Most UI components do not communicate their programmatical state correctly, and many do not have accessible names or lack specificity. Several ARIA attributes and roles are not present where appropriate.  **Exceptions:**   * Many pages - Add Special Characters Menu: Menu button accessible name lacks specificity for blind users to understand its purpose * Dashboard page - Export to spreadsheet links: Repeating identical accessible names across multiple elements can create confusion for assistive technology users, as it may lead to misunderstandings about the context and functionality of those elements. * Dashboard page - Archive buttons: Repeating identical accessible names across multiple elements can create confusion for assistive technology users, as it may lead to misunderstandings about the context and functionality of those elements. * Dashboard page - archive buttons: Elements visually resemble buttons but announce as links to screen reader users can create confusion and hinder usability. * Profile page - Change Password disclosure element: The element is coded as a tab but functions like a button, which can confuse users, especially those relying on assistive technologies. * Profile page - Special characters button in the dialog of the same name: Some buttons in the dialog visually display an icon but do not have an accessible name, which can make it difficult for users, especially those using screen readers, to understand the button's purpose. * Profile page - Add Special Character element: When a dialog is opened by a link instead of a button, it can confuse users, especially those with disabilities, who may expect the link to take them to a new page rather than trigger an interactive dialog box. * Profile page - Degrees section tooltip trigger element: The element lacks an interactive role. This makes its purpose unclear to non-sighted assistive technology users. * Profile page - Subsections within affiliations section: Each subsection uses identical accessible names for all of its inputs. * Profile page - Add EMSS to Contacts link: link acts a button triggering the appearance of a dialog without the necessary attributes or button role * Admin page - Search by filter dropdown: The element lacks an accessible name. * Admin page - search buttons: there are too many buttons named "search" on the page which makes their purpose unclear * Admin page - all forms: the forms are laid out using an HTML table structure which announces confusing information to blind screen reader users * Edit Book workflow - Setup tab: The upload image modal is not implemented as a modal in code and lacks an accessible name. * Edit Book workflow - Setup tab: The text area within the “special instructions” modal lacks an accessible name. * Edit Book workflow - Setup tab: The details links in the BPSC Request History panel have duplicated accessible names * Edit Book workflow - Setup tab: the BPSC disclosure trigger element is implemented as a tab instead of a button. * Edit Book workflow - Setup tab: The 8 tabs on the page are implemented as links. * Edit book workflow - Users tab: The “delete assigned user” buttons lack an accessible name. * Edit book workflow - Users tab: checkboxes to enable contact methods with users lack an accessible name * Edit book workflow - Users tab: the search for user input in the search user dialog available for each type of users lacks specificity * Edit book workflow - Users tab: The email input in the add new user dialog changes its accessible name when an error is present. * Edit book workflow - Users tab: The search for user dialog available for each role lacks an accessible name and a role. * Edit book workflow - Users tab: The button used to dismiss the “search for user” dialog for each user role has a confusing accessible name and an incorrect role. * Edit book workflow - Users tab: The add user dialog available for each role lacks an accessible name and a role. * Edit book workflow - Users tab: Links used to bring up the search for user dialog for every role act as buttons. * Edit book workflow - workflow tab: The buttons for inserting a workflow step above or below an existing step convey their purpose only through visual placement. * Edit book workflow - workflow tab: Input fields in the “Custom Role Type Name” column all have the same accessible name of "hidden label". * Edit book workflow - workflow tab: Input fields in the Due Date column all have the same accessible name of "Hidden Label". * Edit book workflow - all tabs: Icons with tooltips do not have accessible names. * Edit book workflow - Allotments tab: The close button in the “spec name” dialog has an accessible name of X. * Edit book workflow - Allotments tab: The spec name dialog lacks both an accessible name and a role. |
| [4.1.3: Status Messages](https://www.w3.org/TR/WCAG21/#status-messages) (AA)  In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus. | Partially supports | Some status messages are not announced by assistive technology.  **Exceptions:**   * Edit Book workflow - Setup tab: No confirmation or announcement is made to blind users after pressing the Submit request to BPA Team button * Edit book workflow - Users tab: When data is saved, a message appears at the top of the tab panel, but its content is not announced to screen reader users. * Edit book workflow - all tabs: Visible status messages are not conveyed to screen reader users via live region. |

### Multimedia

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [1.2.1: Audio-only or Video-only (Prerecorded)](https://www.w3.org/TR/WCAG21/#audio-only-and-video-only-prerecorded) (A)  Provide alternatives for pre-recorded audio-only or video-only content. | Supports (N/A) | There is no pre-recorded audio-only or video-only content. |
| [1.2.2: Captions (Prerecorded)](https://www.w3.org/TR/WCAG21/#captions-prerecorded) (A)  Provide captions for pre-recorded audio | Supports (N/A) | There is no content requiring this feature in EMSS. |
| [1.2.3: Audio Description or Media Alternative (Prerecorded)](https://www.w3.org/TR/WCAG21/#audio-description-or-media-alternative-prerecorded) (A)  Provide alternatives for pre-recorded synchronized audio/video | Supports (N/A) | There is no content requiring this feature in EMSS. |
| [1.2.4: Captions (Live)](https://www.w3.org/TR/WCAG21/#captions-live) (AA)  Provide captions for live audio in synchronized audio/video. | Supports (N/A) | There is no content requiring this feature in EMSS. |
| [1.2.5: Audio Description (Prerecorded)](https://www.w3.org/TR/WCAG21/#audio-description-prerecorded) (AA)  Provide an audio description of pre-recorded video. | Supports (N/A) | There is no content requiring this feature in EMSS. |
| [1.4.2: Audio Control](https://www.w3.org/TR/WCAG21/#audio-control) (A)  Audio can be paused and stopped, or the audio volume can be changed. | Supports (N/A) | There is no content requiring this feature in EMSS. |
| [2.2.2: Pause, Stop, Hide](https://www.w3.org/TR/WCAG21/#pause-stop-hide) (A)  Users can stop, pause, or hide moving, blinking, scrolling, or auto-updating information. | Supports (N/A) | There is no content requiring this feature in EMSS. |

### Usability

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [2.2.1: Timing Adjustable](https://www.w3.org/TR/WCAG21/#pause-stop-hide) (A)  Users are warned of time limits shorter than 20 hours and time limits can be turned off or extended | Supports | All pages are not subject to session time limits. |
| [2.4.5: Multiple Ways](https://www.w3.org/TR/WCAG21/#multiple-ways) (AA)  More than one way is available to navigate to other web pages. | Supports | All pages (except steps/results of a process) can be located using links and consistent navigiation. |
| [3.2.2: On Input](https://www.w3.org/TR/WCAG21/#on-input) (A)  Changing the setting of a checkbox, radio button, or other UI component does not trigger unexpected changes in context. | Does not support | Most user inputs, such as altering form element values, trigger unexpected actions or changes in context.  **Exceptions:**   * Login page - Login button: Pressing the button triggers form validation and moves keyboard focus to the first form field, regardless of whether there are errors. * Profile page - Revert Changes button: Activating the button using a keyboard submits the form instead of performing the intended action of resetting the changes. * Edit Book workflow - Setup tab: The typed date in the Planned Publication Date is automatically deleted when incorrect when tabbing away from the field. * Edit book workflow - Questions tab: The keyboard focus position is lost after pressing any of the buttons in the “Confirm Question Deletion” modal. * Edit book workflow - all tabs: the keyboard focus position is lost to the top of the page after interacting with any interactive element. * Edit book workflow - Allotments tab: The keyboard focus position is lost after pressing any of the buttons in the form. |
| [3.2.3: Consistent Navigation](https://www.w3.org/TR/WCAG21/#consistent-navigation) (AA)  Navigation menus are in the same location and order on every web page. | Supports | Navigation menus are consistent across pages. |
| [3.3.4: Error Prevention (Legal, Financial, Data)](https://www.w3.org/TR/WCAG21/#error-prevention-legal-financial-data) (AA)  For web pages with legal or financial commitments, input can be reviewed and corrected before final submission, and submissions can be reverted. | Supports | There are no submissions which require legal or financial commitments. |

### Mobile User Experience

|  |  |  |
| --- | --- | --- |
| **WCAG 2.1**  **Checkpoint** | **Conformance Level** | **Remarks** |
| [1.3.4: Orientation](https://www.w3.org/TR/WCAG21/#orientation) (AA)  Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is essential. | Supports | Pages do not restrict view and operation of content to a single orientation. |
| [2.5.1: Pointer Gestures](https://www.w3.org/TR/WCAG21/#pointer-gestures) (A)  All functionality that uses multipoint or path-based gestures for operation can be operated with a single pointer without a path-based gesture, unless a multipoint or path-based gesture is essential. | Supports | Pages do not utilize or require multipoint or path-based gestures for any functionality. |
| [2.5.2: Pointer Cancellation](https://www.w3.org/TR/WCAG21/#pointer-cancellation) (A)  For functionality that can be operated using a single pointer, at least one of the following is true:   * No Down-Event * Abort or Undo * Up Reversal * Essential | Supports | All interactive content functions through the Up-Event, allowing users to potentially move their pointer off the component to cancel. |
| [2.5.4: Motion Actuation](https://www.w3.org/TR/WCAG21/#motion-actuation) (A)  Functionality that can be operated by device motion or user motion can also be operated by user interface components and responding to the motion can be disabled to prevent accidental actuation, except when:   * Supported Interface * Essential | Supports (N/A) | There is no content that utilizes device or user motion. |