LabHUB™ Accessibility Conformance Report

WCAG Edition 2.2

(Based on VPAT® Version 2.5)

Name of Product:

LabHUB™ web app

Report Date:

February 19th, 2024

Product Description:

The LabHUB™ framework is an internet hosting service for the development is dti Publishing's interactive lab simulations for the STEM (science, technology, engineering and mathematics) field of study.

Contact information:

asuckley@dtipublishing.com

Notes:

This VPAT was created by Pivotal Accessibility, LLC for dti Publishing Corporation.

Evaluation Methods Used:

Accessibility testing as per WCAG 2.2 AA guidelines.

The evaluation was performed using the below tools/ tests:

- Screen readers:
    - NVDA on Win11/ Chrome
    - JAWS on Win11/ Chrome
    - VoiceOver on Mac/ Safari
- WAVE automated tool
- Color contrast testing using Color Contrast Analyzer

- Browser zoom
- Keyboard-only
- Text-spacing testing using bookmarklets

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standards/guidelines:

Standard/Guideline	Included in Report
Web Content Accessibility Guidelines 2.2 at *https://www.w3.org/TR/WCAG22/*	Level A (Yes) Level AA (Yes) Level AAA (No)

Terms

The terms used in the Conformance Level information are defined as follows:
- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- **Not Applicable**: The criterion is not relevant to the product.
- **Not Evaluated**: The product has not been evaluated against the criterion.

WCAG 2.2 Report

Note: When reporting on conformance with the WCAG 2.2 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the WCAG 2.0 Conformance Requirements.

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Supports	Images on the web app contain relevant alternative text.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Not Applicable	No audio-only or video-only content is present on the web app.
1.2.2 Captions (Prerecorded) (Level A)	Supports	Captions are provided for multimedia content present on the web app.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Supports	Alternatives are provided for multimedia content present on the web app.
1.3.1 Info and Relationships (Level A)	Supports	The web app has consistent headers and global table structures to establish clear information and relationships within the web app. Screen readers properly identify most of the information available on the web app. Visually impaired users are easily able to perceive the relationships between a particular element and its role.
1.3.2 Meaningful Sequence (Level A)	Supports	The sequence of the content present on the web app is meaningful and appropriate and does not affect the meaning of the provided content.
1.3.3 Sensory Characteristics (Level A)	Supports	No information is present on the web app which is based on sensory characteristics such as shape, size, location, sound, etc.
1.4.1 Use of Color (Level A)	Supports	Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.
1.4.2 Audio Control (Level A)	Supports	The auto-playing audio content is provided with appropriate controls.

2.1.1 Keyboard (Level A)	Supports	The web app supports standard keyboard navigation and input functions.
2.1.2 No Keyboard Trap (Level A)	Supports	Keyboard focus is moving sequentially throughout the web app without the focus getting trapped in any section and it is convenient to access the functionality.
2.1.4 Character Key Shortcuts (Level A 2.1 and 2.2)	Not Applicable	No functionalities are dependent on or controlled by character key shortcuts.
2.2.1 Timing Adjustable (Level A)	Not Applicable	There is no such activity present on the web app where time needs to be adjusted or extended.
2.2.2 Pause, Stop, Hide (Level A)	Not Applicable	There is no such content present on the web app that needs to be stopped, paused, or hidden.
2.3.1 Three Flashes or Below Threshold (Level A)	Not Applicable	There is no flashing content present on the web app.
2.4.1 Bypass Blocks (Level A)	Supports	A bypass mechanism for skipping to the main content is implemented.
2.4.2 Page Titled (Level A)	Supports	Descriptive and correct page titles are present for pages on the web app.
2.4.3 Focus Order (Level A)	Supports	The focus moves in a correct sequence order on the web app from left to right and top to bottom.
2.4.4 Link Purpose (In Context) (Level A)	Supports	All links are provided with appropriate link text and the user would be able to understand the purpose of the link from its link text.
2.5.1 Pointer Gestures (Level A 2.1 and 2.2)	Supports	All functionalities present in the web app can be operated with a single pointer without a path-based gesture unless a multipoint or path-based gesture is essential.
2.5.2 Pointer Cancellation (Level A 2.1 and 2.2)	Supports	No down-event of the pointer is used in the web app to execute any part of the action.

2.5.3 Label in Name (Level A 2.1 and 2.2)	Supports	All labels on the web app include text and the same text is defined in the code as well to assist speech recognition technologies.
2.5.4 Motion Actuation (Level A 2.1 and 2.2)	Not Applicable	No functionality is present on the web app that is operable only by device motion.
3.1.1 Language of Page (Level A)	Supports	The language attribute is correctly defined for the web app.
3.2.1 On Focus (Level A)	Supports	No interactive element is triggered automatically on receiving the focus.
3.2.2 On Input (Level A)	Supports	Change of context does not happen when the user changes the setting of any input controls.
3.2.6 Consistent Help (Level A 2.2 only)	Not Applicable	The success criterion is not applicable.
3.3.1 Error Identification (Level A)	Not Applicable	No such errors are present on the web app.
3.3.2 Labels or Instructions (Level A)	Supports	The web app provides support for motor-impaired and cognitive users as the labels and instructions are provided for the form fields, which are clearly visible and readable to such users.
3.3.7 Redundant Entry (Level A 2.2 only)	Not Applicable	The success criterion is not applicable.
4.1.2 Name, Role, Value (Level A)	Supports	All the web app elements have a proper label associated with their role and the screen reader is recognizing them correctly with updated values as well.

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not Applicable	No live multimedia content is present on the web app.
1.2.5 Audio Description (Prerecorded) (Level AA)	Supports	Audio description is provided for the multimedia content presented on the web app.
1.3.4 Orientation (Level AA 2.1 and 2.2)	Not Applicable	The success criterion is not applicable.
1.3.5 Identify Input Purpose (Level AA 2.1 and 2.2)	Not Applicable	The success criterion is not applicable.
1.4.3 Contrast (Minimum) (Level AA)	Supports	The web app adheres to minimum contrast standards.
1.4.4 Resize text (Level AA)	Supports	The web app is fully responsive. At a zoom of 200%, the site responds to that resolution by adjusting the UI as it would if the user were on a smartphone.
1.4.5 Images of Text (Level AA)	Supports	No information is conveyed to the user via an image of the text.
1.4.10 Reflow (Level AA 2.1 and 2.2)	Supports	The web app does not require scrolling in two dimensions to present content without loss of information at 400% zoom.
1.4.11 Non-text Contrast (Level AA 2.1 and 2.2)	Partially Supports	The web app user interface components have a contrast ratio of at least 3:1 against adjacent color(s). **Exceptions include:** • The focus outline of the 'Video Play' button fails the color contrast ratio due to irregular background.
1.4.12 Text Spacing (Level AA 2.1 and 2.2)	Supports	The web app is compliant with WCAG text spacing requirements.

1.4.13 Content on Hover or Focus (Level AA 2.1 and 2.2)	Supports	The content that is triggered by hover or focus is dismissible, hoverable, and persistent
2.4.5 Multiple Ways (Level AA)	Not Applicable	The success criterion is not applicable.
2.4.6 Headings and Labels (Level AA)	Supports	Headings and Labels on the web app provide sufficient detail of the content they are describing.
2.4.7 Focus Visible (Level AA)	Supports	All the elements present in the web app have focus visibility.
2.4.11 Focus Not Obscured (Minimum) (Level AA 2.2 only)	Supports	All elements that receive keyboard focus are at least partially visible upon receiving the focus.
2.5.7 Dragging Movements (Level AA 2.2 only)	Supports	All actions that involve dragging, are provided with a simple pointer alternative.
2.5.8 Target Size (Minimum) (Level AA 2.2 only)	Supports	All the interactive pointer targets are at least 24 by 24 CSS pixels or have sufficient spacing around them.
3.1.2 Language of Parts (Level AA)	Not Applicable	English is the primary and only language of the web app. There are no phrases or sentences written in any other language, which need to be defined separately.
3.2.3 Consistent Navigation (Level AA)	Supports	Navigational mechanisms are repeated on the web app and occur in the same relative order each time they are repeated. Hence, consistent navigation is provided to the user.
3.2.4 Consistent Identification (Level AA)	Supports	Components that provide the same functionality throughout the web app can be easily identified by the user.
3.3.3 Error Suggestion (Level AA)	Not Applicable	No such errors are present on the web app.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not Applicable	There are no critical forms available where error prevention is required. Error suggestions are enough to fill out the form and correct the errors.

3.3.8 Accessible Authentication (Minimum) (Level AA 2.2 only)	Not Applicable	The success criterion is not applicable.
4.1.3 Status Messages (Level AA 2.1 and 2.2)	Supports	The updated content automatically notifies the visually impaired users via a screen reader.