

# Accessibility Features for Animal AI Custom Vision

## Overview [↗](#)

This document outlines accessibility features that can be implemented in the Animal AI Custom Vision application to enhance usability for individuals with various disabilities. These include:

- Color blindness
- Visual impairment
- Mobility impairment
- Cognitive impairment

## Accessibility Features to Consider Implementing [↗](#)

### 1. Keyboard Navigation & Shortcuts [↗](#)

- Ensure users can upload images, submit the form, and view results using only the keyboard.
- Add focus indicators to buttons (e.g. "Upload", "Analyze", navigation links).
- Use keyboard shortcuts to quickly reset or upload a new image.

### 2. Screen Reader Support [↗](#)

- Label all interactive elements like file input fields, buttons, and result sections.
- Use ARIA roles to describe the image upload zone, progress indicator, and prediction results.
- Announce analysis progress (e.g. "Image uploaded successfully. Analyzing now...") using ARIA live regions.

### 3. High Contrast Mode / Color Blind Friendly UI [↗](#)

- Provide an option to toggle high contrast mode (especially for the results screen).
- Use icons or labels alongside confidence color indicators (e.g. green = High, orange = Medium).
- Avoid using red/green combinations as sole indicators.

### 4. Text Scaling and Responsive Design [↗](#)

- Ensure prediction results, labels, and image previews scale well at 200% zoom.
- Use relative units for text and layout (e.g., `rem`, `%`, `em`).

### 5. Accessible Forms and Inputs [↗](#)

- Ensure the file upload field is clearly labelled.
- Display upload errors in both visual and text form (e.g. "File type not supported").
- Add descriptive help text near the upload form to assist users.

### 6. Alt Text and Result Descriptions [↗](#)

- Auto-generate alt text for the uploaded image preview.
- Provide text-based descriptions for prediction results so users with visual impairments can understand tag predictions and confidence levels.

### 7. Result Layout and Structure [↗](#)

- Use headings and landmarks to separate sections (e.g. Results, Upload, Instructions).

- Group similar tags under headings (e.g. “Top Predictions”, “Other Tags”) for easier scanning.

## 8. Tooltips and Help Text [🔗](#)

- Add tooltips or small info buttons next to upload and analysis controls.
- Provide inline explanations for what the “confidence score” means.

## 9. Session Feedback and Timeouts [🔗](#)

- Notify users of long upload or processing delays.
- Optionally auto-save analysis state so users can retry if they navigate away.

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## Conclusion [🔗](#)

Incorporating accessibility into the Animal AI Custom Vision Application makes it more inclusive and improves usability across a broader audience. These enhancements will ensure all users — regardless of ability — can upload images, review predictions, and benefit from the application’s features.