

PUI Final Project Write-up

Part 1:

The purpose of this website is to organize the photos that I took along my trips and showcase them in a portfolio/gallery-based space. Ever since I bought my first professional camera, I've taken it with me on many trips and even daily photo shoots. I've tried a lot of styles and color tunes, but I usually just export the photos into my computer and never organize them, so I have a lot of photos piled on my computer. I've always wanted to see how these photos would look if they were organized, and this project is a great opportunity to showcase my photos with coding practices.

I wanted to make the experience in the gallery feel smooth and interactive, so I spent a lot of time tuning the image corner roundings and added minor interactions such as mouse hovering, page transition, and layouts to make the website feel aesthetically more pleasing. When you hover over the album covers, you should be able to see the album chosen popup and become clear. The background was set to black to make the images stand out and be the main thing people see. In the detail pages of the albums, I didn't lay them out like usual albums, in which all photos are shown one by one, from top to bottom. I laid them out in a different layout to match better with their style (color, tune), and people can still click on the photos to see the full image. I want to show this to people who love photography and explore new interesting ways to showcase photos.

Part 2- Interactions:

- Start with the main page, you can explore the albums of interest by hovering over the albums. There are 7 albums at the moment, and I'm planning to add more in the future. When you **hover over the album cover**, this current album will become larger, the opacity will change to full (not transparent at all), and the albums beside it will also become a little larger to make the effect of hovering better.
- You can **horizontally scroll** through the list of albums. If using the touchpad, you can just swipe to the right, and if you are using the mouse, press shift and then scroll. At the end of the list is a text showing "more albums on the way", which has the same hovering effect.
- As you click into the album, you can see the photos laid out across the page. They follow a certain layout pattern, which is dynamically loaded through Javascript. When you **hover over each image**, they will become slightly larger to indicate that you are currently hovering over it.
- When you **click on the image** you want to look more closely, this image will pop up on the screen at its full scale and ratio. There's an "**X**" **cross** that you can click to close it.
- **Click on the "back"** to return to the home page, or **click on the "about"** button to see the About page.
- In the About page, the **button "home"** sends you back to the home page.

Part 3- External tools:

- I added a simple transition animation to the website so that whenever you click on a button or link, the page will have a transition instead of just opening a new page.

- I want to make my website have a smoother transition and a better user experience.
- I selected the <a> tags and tags that contain “data-url” (which I used in JS to load the accurate albums) and applied this transition effect to each of them.
- This animation makes my website feel smoother. Because I need to dynamically load photos for the detail page, it takes some time for the program to process, and if there’s no loading transition it will feel very laggy.

Part 4:

Photography Collection

by Jiapei Wang

Spring 2024

Photography Collection

by Jiapei Wang

Spring 2024

Record ————— Life Moments Record ————— Life Moments



Photography • Time • Travel Photography • Time • Travel

- In the original prototype, I displayed these albums in low transparency and intended to have them become non-transparent while I hovered over them. It was not very accessible because all the albums were stacked together. So I changed them to a horizontal layout, keeping the transparency consideration but making it less transparent by default.
- I also changed the large text a little bit, because other students in my lab expressed concern about it conveying the affordance of being clickable. I added borders for buttons that can actually be clicked, and for the text, I just added “” around it.



- The transition of expanding the album to full screen and then shrinking to the album detail page was very hard to implement, and I decided to apply a uniform transition for every button I click on, which is a blank screen swiping across the page and revealing the next page.

Part 5:

- The main challenge was to implement the animation. I originally wanted to use a JS library and plugin called Swup to do this. But after trying for a couple of days, it still couldn’t work; and because it needs the script to be a module, I could only load it on a live server and thus can’t assess the accessibility of the page. After this main frustration, I decided to make the animation simpler.

The following apply to the entire page:

powered by WebAIM

Styles: OFF ON

Summary

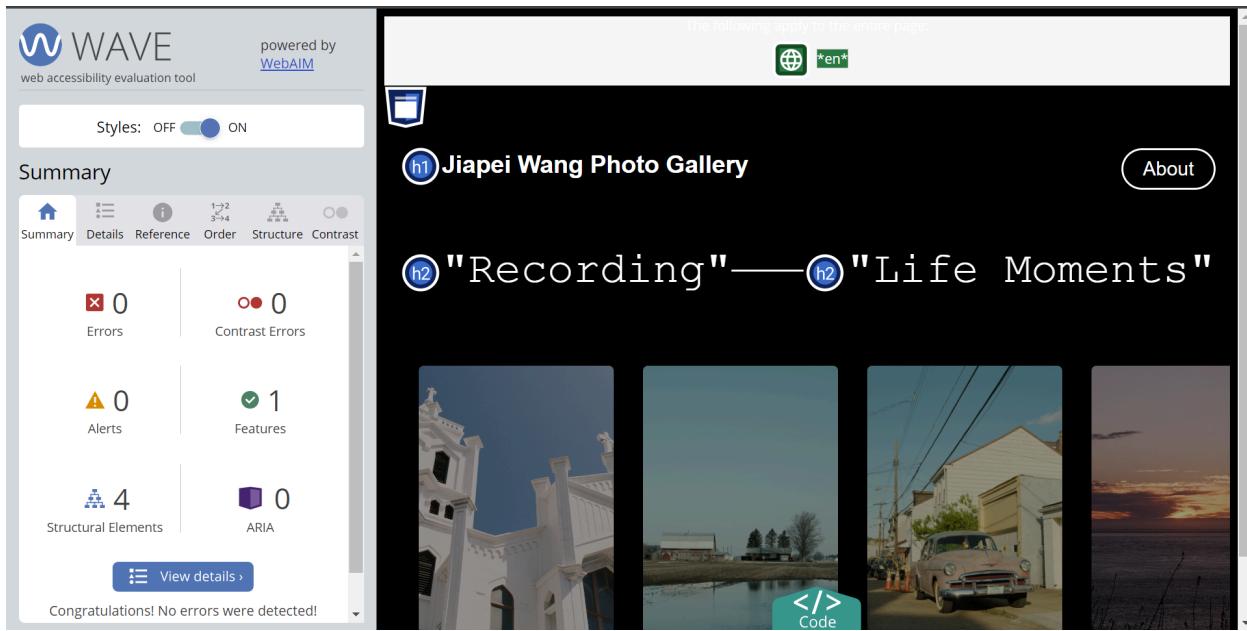
Category	Count
Errors	0
Contrast Errors	0
Alerts	0
Features	1
Structural Elements	4
ARIA	0

[View details >](#)

Congratulations! No errors were detected!

Jiapei Wang Photo Gallery

"Recording"—"Life Moments"



The following apply to the entire page:

powered by WebAIM

Styles: OFF ON

Details

1 Features

1 X Language

4 Structural Elements

1 X Heading level 1

2 X Heading level 2

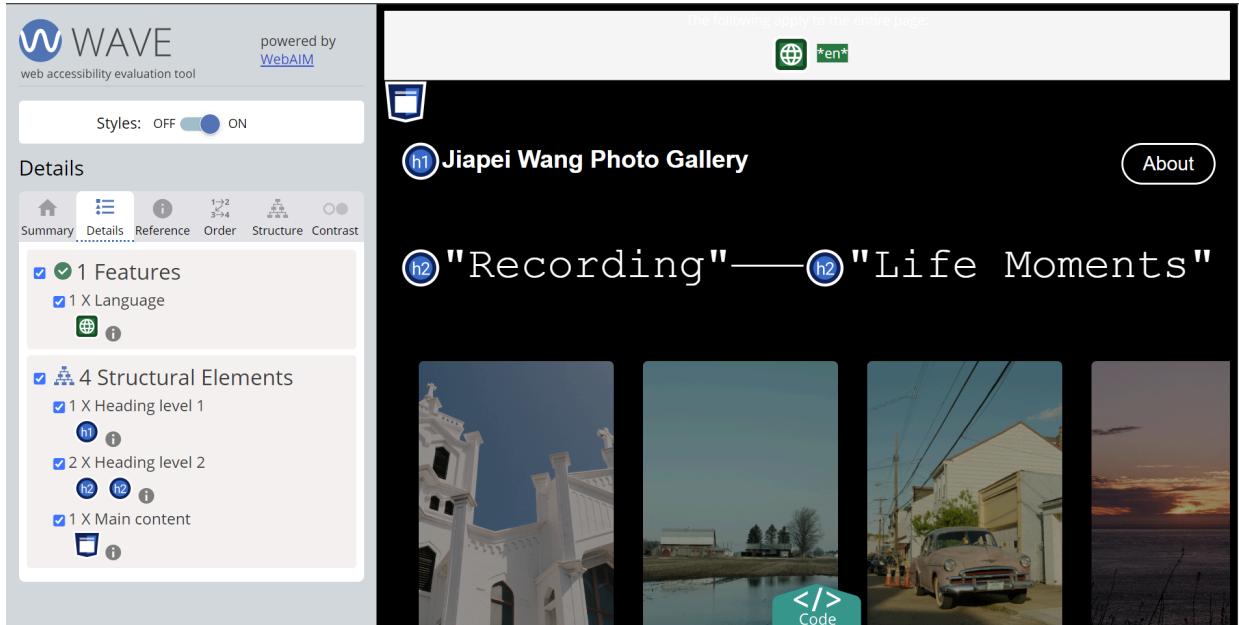
 

1 X Main content

Jiapei Wang Photo Gallery

"Recording"—"Life Moments"



WAVE
web accessibility evaluation tool

powered by WebAIM

Styles: OFF ON

Summary

The following apply to the entire page.

album1  *en* 

Back About







Summary

Category	Count
Errors	0
Contrast Errors	0
Alerts	2
Features	13
Structural Elements	1
ARIA	0

[View details >](#)

Congratulations! No errors were detected!

WAVE
web accessibility evaluation tool

powered by WebAIM

Styles: OFF ON

Details

The following apply to the entire page.

album1  *en* 

Back About







Details

2 Alerts

- 1 X Suspicious alternative text 
- 1 X No heading structure 

13 Features

- 12 X Alternative text 
- 1 X Language 