

# PUI FP4 Write-up

## Part 1 - Introduction

My website is a digital portfolio, displaying my projects in architecture and art. The primary purpose is to offer potential employers and other interested users a quick and easy way to view my portfolio. My ultimate goal is to provide visitors with a clear and concise understanding of my style and working quality, even within a minute of browsing.

To achieve this goal, I researched several architecture portfolio websites and analyzed their design patterns to apply them to my website. By doing so, users can easily navigate the website and familiarize themselves with its structure. I established a clear hierarchy within the project gallery page to guide users to view my most notable projects. Additionally, I use a hierarchy within the project detail pages to emphasize the more important images.

To enhance the user's experience, I adjusted the font size and color to make the text easier to read. The layout and page margin were also designed to add a concise sense of aesthetics, highlighting my works and skills. To add interest, I incorporated animation on the title of each page. However, I made sure not to use too much animation to avoid overwhelming the visitors.

Overall, my website's design is clean, user-friendly, and appealing. Potential employers and interested users can quickly browse through my portfolio, gaining an understanding of my skills and style. The concise and straightforward design language will keep visitors engaged while providing them with a seamless experience.

## Part 2 – Interaction Guide

Users may encounter three situations base on the pages they are on:

### Situation 1 - Gallery Page:

Users can interact with the following three parts:

#### 1. Navigation Bar:

- **Interaction Type:** Hover, Click
- **Reproduction:**
  - Hovering on an option causes the hovered option to turn into a thick grey font, indicating that the option is selected and is clickable.
  - Clicking on an option navigates to another gallery page or to the profile page. Clicking on the logo navigates to the architecture gallery page.

#### 2. Project Gallery:

- **Interaction Type:** Hover, Click
- **Reproduction:**
  - Hovering on a project image displays a small white box on top of the image with basic project information.
  - Clicking on a project image leads to the project detail page.
- 3. Contact Information Section:**
  - **Interaction Type:** Click
  - **Reproduction:**
    - Clicking on the email address leads to Outlook, enabling direct email.
    - Clicking on the Instagram link leads to my Instagram homepage.

### **Situation 2 - Project Detail Page:**

Users can interact with the following four parts:

- 1. Navigation Bar:**
  - **Interaction Type:** Hover, Click
  - **Reproduction:** Similar to Situation 1.
- 2. Images:**
  - **Interaction Type:** Hover, Click
  - **Reproduction:**
    - Hovering on an image displays a zoom-in icon,
    - Clicking on an image displays a separate window with the zoomed-in image.
    - Clicking on the cross icon closes the window and returns to the project detail page.
- 3. Whole Page:**
  - **Interaction Type:** Scroll
  - **Reproduction:** Users can scroll up and down the page to view more project information.
- 4. Contact Information Section:**
  - **Interaction Type:** Click
  - **Reproduction:** Similar to Situation 1.

### **Situation 3 - Profile Page:**

Users can interact with the following three parts:

- 1. Navigation Bar:**
  - **Interaction Type:** Hover, Click
  - **Reproduction:** Similar to Situation 1 and 2.
- 2. Portfolio and Resume Link:**
  - **Interaction Type:** Click
  - **Reproduction:** Clicking on "View My Paper Portfolio" or "View My Resume" leads to a Google file of the portfolio or resume. The portfolio and resume are downloadable.
- 3. Contact Information Section:**
  - **Interaction Type:** Click

- **Reproduction:** Similar to Situation 1 and 2.

## Part 3 - Tools

### Tool 1: JavaScript library - textillate.js

I chose the textillate.js tool because it allows me to add text animations easily and quickly. Specifically, I applied the fade-in from the left animation to the title on every page, which draws users' attention upon loading the page and helps them identify the page they are on, facilitating navigation. The animation only plays once and won't disrupt users while they read the page. Furthermore, the animation enhances the liveliness of my website.

### Tool 2: Zoom in Animation

I add the zoom in animation on the image caption while the user zooms in an image on project detail page. I choose to use the animation because it creates a sense of continuity, helping the user understand that they have just zoomed in on the image. I intentionally only implement the animation to the caption, but not the image itself to avoid making the animation too disturbing.

### Tool 3: font-awesome library

I choose to use this tool because I want to implement an Instagram icon at the contact information section. The Instagram icon helps the user understand that this link leads to my Instagram page more intuitively.

## Part 4 – Iterations on prototype

During the implementation of my website, I made several changes to my original design based on feedback and my own observations. I decided to use the same navigation bar and contact information session on each page, rather than different grayscale to distinguish between pages, as it created consistency and improved the overall appearance of the website. Additionally, I abandoned the idea of creating a timeline for my past experience on the profile page, as it didn't show the hierarchy of my experience and I wanted to lead the users to pay more attention to my projects. Instead, I added a link to my resume in Google Drive for users interested in my past experience.

To enhance the user experience, I added a new feature that allows users to zoom in on project images to see them more clearly. I also incorporated animations, such as fade-in from the left for the page titles and zoom-in for the image captions, to make the website more engaging.

## **Part 5 – challenge**

One of the most challenging aspects of this project was determining the hierarchy and structure of the project gallery page and implementing the hover feature seamlessly. To ensure the hierarchy displayed correctly, I used nested `<div>` elements. Additionally, I made sure that the white box displaying information would appear immediately when users hovered over the image, even if the cursor was at the edge.

Another challenge was ensuring the zoom-in function on the project detail pages worked correctly for images with different ratios. For most images, I set the height of the zoom-in image to 80%. However, for landscape images where the width was significantly larger than the height, I set the width of the zoom-in image to 80% to ensure it was displayed properly on the page.

## **Part 6 – responsive design**

The website should be view at:

Laptop size: 1920 x 1080

Mobile device size: 480 x 800

## Part 7 – Accessibility

### Architecture Projects Gallery

WAVE  
web accessibility evaluation tool

powered by  
WebAIM

Styles: OFF ON

Summary

0 Errors

0 Contrast Errors

1 Alerts

7 Features


13 Structural Elements

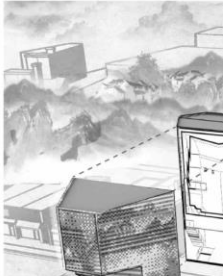
0 ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Logo of Shiyue's personal website





Shedding Hill Culinary Center

WAVE  
web accessibility evaluation tool

powered by  
WebAIM

Styles: OFF ON

Details

1 Alerts

1 X Redundant link

7 Features

6 X Linked image with alternative text

1 X Language

13 Structural Elements

1 X Heading level 1

1 X Heading level 2

1 X Heading level 3


4 X Heading level 4


4 X Heading level 5

1 X Unordered list

1 X Navigation

Logo of Shiyue's personal website





Shedding Hill Culinary Center

### Art Projects Gallery

WAVE  
web accessibility evaluation tool

powered by  
WebAIM

Styles: OFF ON

Summary

0 Errors

0 Contrast Errors

1 Alerts

7 Features

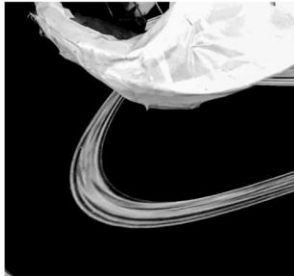
13 Structural Elements

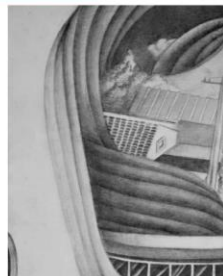
0 ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Logo of Shiyue's Portfolio Website





The Mix Media Project: Water

WAVE  
web accessibility evaluation tool

powered by  
WebAIM

Styles: OFF ON

Details

1 Alerts

1 X Redundant link

7 Features

6 X Linked image with alternative text

1 X Language

13 Structural Elements

1 X Heading level 1

1 X Heading level 2

1 X Heading level 3


4 X Heading level 4


4 X Heading level 5

1 X Unordered list

1 X Navigation

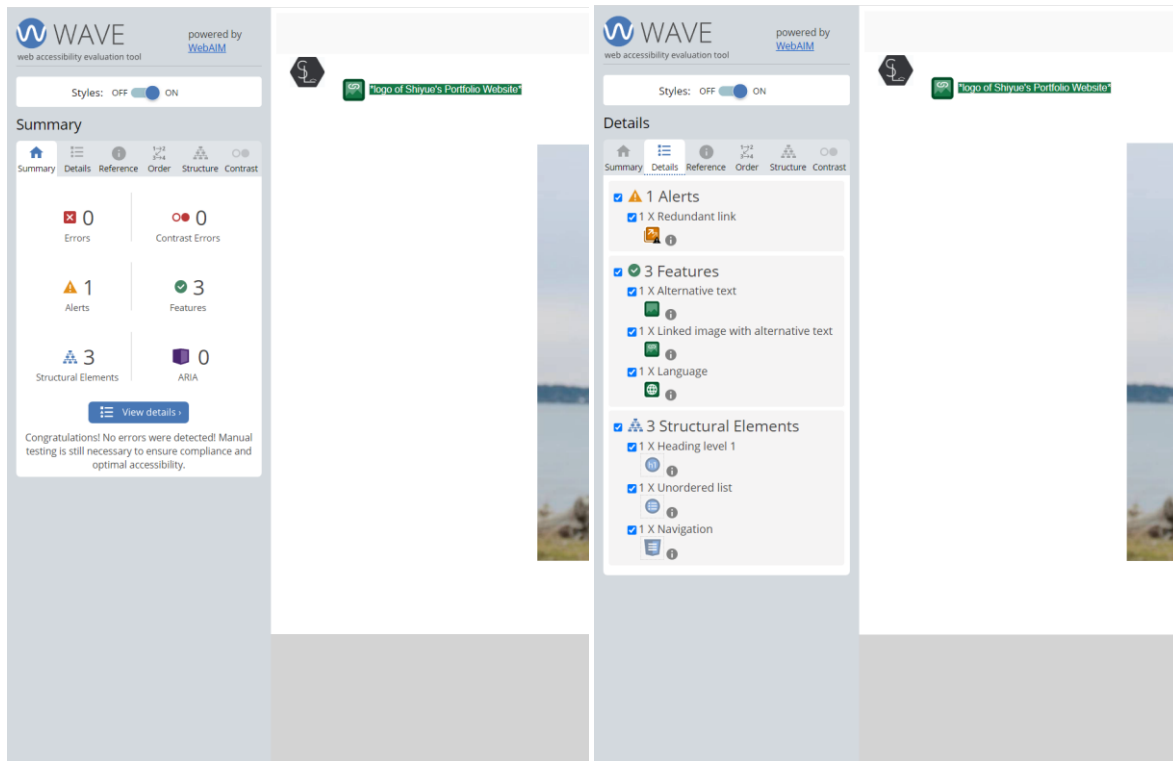
Logo of Shiyue's Portfolio Website



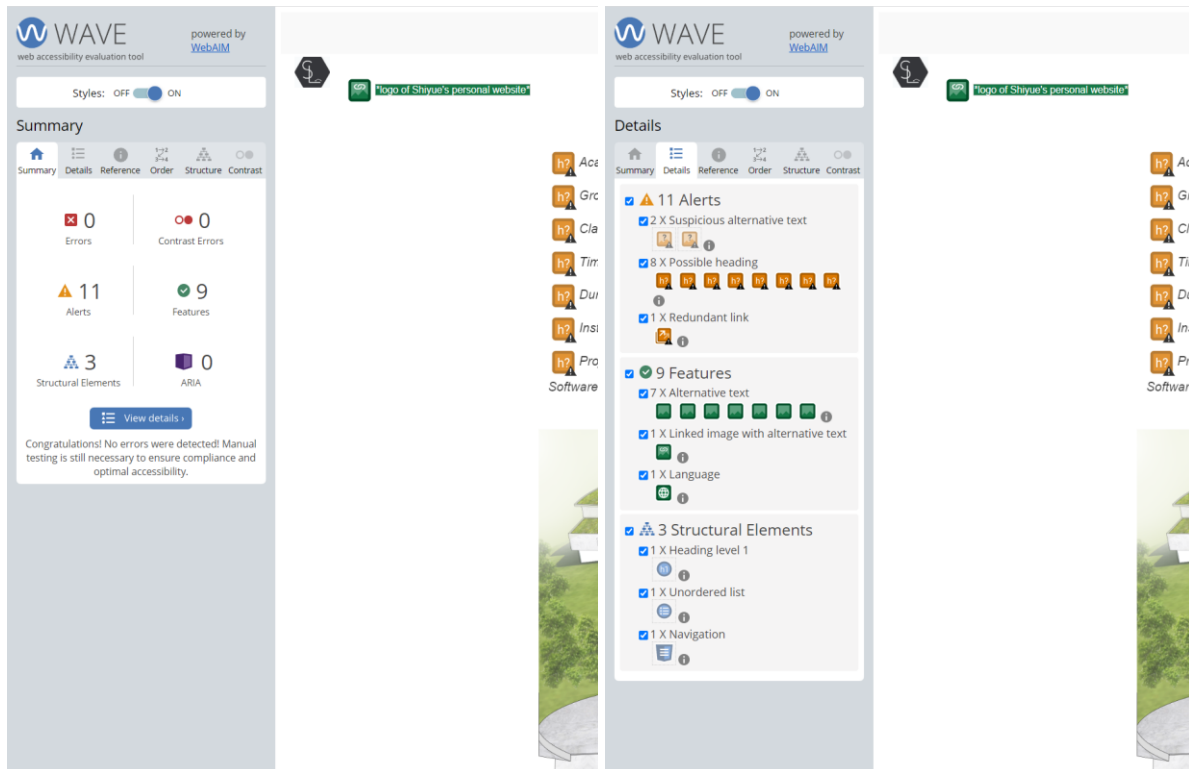


The Mix Media Project: Water

## About Me



## Project Detail Page – Culinary Center



## Project Detail Page - S.CraigSt.Theater

The screenshot displays the WAVE web accessibility evaluation tool interface for the project "S.CraigSt.Theater". The tool is powered by WebAIM. The "Summary" tab is active, showing 0 Errors, 0 Contrast Errors, 11 Alerts, 16 Features, 3 Structural Elements, and 0 ARIA. A message states: "Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility." The "Details" tab is also visible, showing 11 Alerts and 16 Features. The "Alerts" section lists 1 X Suspicious alternative text, 9 X Possible heading, and 1 X Redundant link. The "Features" section lists 14 X Alternative text, 1 X Linked image with alternative text, 1 X Language, and 3 Structural Elements. The "Structural Elements" section lists 1 X Heading level 1, 1 X Unordered list, and 1 X Navigation. The "Reference" tab is also visible, showing a list of elements: Aca, Indi, Cla, Tim, Dur, Inst, and Software.

## Project Detail Page - RestingSpotinBorealForest

The screenshot displays the WAVE web accessibility evaluation tool interface for the project "RestingSpotinBorealForest". The tool is powered by WebAIM. The "Summary" tab is active, showing 0 Errors, 0 Contrast Errors, 10 Alerts, 4 Features, 3 Structural Elements, and 0 ARIA. A message states: "Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility." The "Details" tab is also visible, showing 10 Alerts and 4 Features. The "Alerts" section lists 1 X Suspicious alternative text, 8 X Possible heading, and 1 X Redundant link. The "Features" section lists 2 X Alternative text, 1 X Linked image with alternative text, and 1 X Language. The "Structural Elements" section lists 1 X Heading level 1, 1 X Unordered list, and 1 X Navigation. The "Reference" tab is also visible, showing a list of elements: Aca, Indi, Cla, Tim, Dur, Inst, and Software.

## Project Detail Page - Claw

The screenshot shows the WAVE web accessibility evaluation tool interface. The top bar includes the WAVE logo, 'powered by WebAIM', and a 'Styles' toggle set to 'OFF'. The main content area is divided into a 'Summary' section on the left and a 'Details' section on the right. The 'Summary' section displays the following statistics: 0 Errors, 0 Contrast Errors, 11 Alerts, 8 Features, 3 Structural Elements, and 0 ARIA. A message at the bottom of the summary states: 'Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.' The 'Details' section lists 11 Alerts and 8 Features. The Alerts include: 1 X Suspicious alternative text, 9 X Possible heading, and 1 X Redundant link. The Features include: 6 X Alternative text, 1 X Linked image with alternative text, and 1 X Language. The Structural Elements include: 1 X Heading level 1, 1 X Unordered list, and 1 X Navigation. The right side of the interface shows a vertical list of page elements with their respective HTML tags: Aca, Gro, Cla, Tim, Dur, Inst, Proj, and Software.

## Project Detail Page – Mobile Home

The screenshot shows the WAVE web accessibility evaluation tool interface for the 'Project Detail Page – Mobile Home'. The top bar includes the WAVE logo, 'powered by WebAIM', and a 'Styles' toggle set to 'OFF'. The main content area is divided into a 'Summary' section on the left and a 'Details' section on the right. The 'Summary' section displays the following statistics: 0 Errors, 0 Contrast Errors, 12 Alerts, 12 Features, 3 Structural Elements, and 0 ARIA. A message at the bottom of the summary states: 'Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.' The 'Details' section lists 12 Alerts and 12 Features. The Alerts include: 1 X Suspicious alternative text, 10 X Possible heading, and 1 X Redundant link. The Features include: 10 X Alternative text, 1 X Linked image with alternative text, and 1 X Language. The Structural Elements include: 1 X Heading level 1, 1 X Unordered list, and 1 X Navigation. The right side of the interface shows a vertical list of page elements with their respective HTML tags: Aca, Indi, Cla, Tim, Dur, Inst, and Software. Below the list, there are two small images of a building and a green field, and a text block that reads: 'In the pro mobile, ar I also exp parts if ne'.



## Project Detail Page – the Water

WAVE  
web accessibility evaluation tool  
powered by  
WebAIM

Styles: OFF ON

Summary

0  
Errors

0  
Contrast Errors

9  
Alerts

5  
Features

3  
Structural Elements

0  
ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Logo of Shiyao's personal website

Indiv  
Time  
Dura  
Material: I

WAVE  
web accessibility evaluation tool  
powered by  
WebAIM

Styles: OFF ON

Details

9 Alerts

1 X Suspicious alternative text

7 X Possible heading

1 X Redundant link

5 Features

3 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

Logo of Shiyao's personal website

Indi  
Tim  
Dur  
Material:

## Project Detail Page – Hutong and Galaxy Soho

WAVE  
web accessibility evaluation tool  
powered by  
WebAIM

Styles: OFF ON

Summary

0  
Errors

0  
Contrast Errors

9  
Alerts

4  
Features

3  
Structural Elements

0  
ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Logo of Shiyao's personal website

Indi  
Tim  
Dura  
Mat

WAVE  
web accessibility evaluation tool  
powered by  
WebAIM

Styles: OFF ON

Details

9 Alerts

1 X Suspicious alternative text

7 X Possible heading

1 X Redundant link

4 Features

2 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

Logo of Shiyao's personal website

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Tim  
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Project Detail Page – WaterTownsin“Jiangnan”

WAVE

web accessibility evaluation tool

powered by WebAIM

Styles: OFF ON

Summary

Summary

Details

Reference

Order

Structure

Contrast

0

Errors

0

Contrast Errors

10

Alerts

6

Features

3

Structural Elements

0

ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Logo of Shiyue's personal website

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WAVE

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powered by WebAIM

Styles: OFF ON

Details

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10 Alerts

1 X Suspicious alternative text

8 X Possible heading

1 X Redundant link

6 Features

4 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

Logo of Shiyue's personal website

Indi

Time

Dura

Mat

In this proj  
Jiangnan,  
display the

Project Detail Page – Cathedral Facade

WAVE

web accessibility evaluation tool

powered by WebAIM

Styles: OFF ON

Summary

Summary

Details

Reference

Order

Structure

Contrast

0

Errors

0

Contrast Errors

10

Alerts

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Features

3

Structural Elements

0

ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Logo of Shiyue's personal website

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In this pr  
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web accessibility evaluation tool

powered by WebAIM

Styles: OFF ON

Details

Summary

Details

Reference

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Structure

Contrast

10 Alerts

1 X Suspicious alternative text

8 X Possible heading

1 X Redundant link

3 Features

1 X Alternative text

1 X Linked image with alternative text

1 X Language

3 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

Logo of Shiyue's personal website

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Clas

Inst

Tim

Dur

Mat

In this proj  
Jiangnan,  
display the

## Project Detail Page – Our Old Days

The image displays the WAVE (Web Accessibility Evaluation Tool) interface, powered by WebAIM. The tool is evaluating the accessibility of a website titled "Logo of Shiyao's personal website". The interface is divided into two main panels: Summary and Details.

**Summary Panel:**

- Styles: OFF (toggle switch)
- Summary: 0 Errors, 8 Alerts, 3 Structural Elements
- Contrast Errors: 0
- Features: 3
- ARIA: 0
- Message: Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Details Panel:**

- 8 Alerts
  - 1 X Suspicious alternative text
  - 6 X Possible heading
  - 1 X Redundant link
- 3 Features
  - 1 X Alternative text
  - 1 X Linked image with alternative text
  - 1 X Language
- 3 Structural Elements
  - 1 X Heading level 1
  - 1 X Unordered list
  - 1 X Navigation

The interface also shows a list of elements on the right side, including "Inc", "Tin", "Du", "Ma", "Ind", "Time", "Dura", and "Mat".