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*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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## 1. Introduction

Technology has been improving every day. In the current time, the internet has assumed control over the world. Furthermore, for anything that we do nowadays, the internet has gotten the base for it. The internet has everything from music, movies, games, business, banking, and many others. Everything can be found on the internet. Similarly, for jobs or hiring someone people have made their portfolio web pages or websites. We see a huge number of portfolio websites created by many individuals or organizations. A portfolio site is an assortment of different past works and experiences of an individual or group. An appealing portfolio site can expand the odds of getting recruited by an organization.

For this coursework, we are required to make a portfolio website with five web pages including a CV, blog page, contact page, and a research page. The blog should be on the topic of How Technology Has Affected Our Daily Life. The research page should include the comparison between our website and 5 different web pages. Our website should be steady with appropriate navigation allowing us to explore every segment of the website.

The tools used to make and design the website were HTML5, CSS3, and JavaScript. HTML was used to make the fundamental design of the website. HTML tags like title, meta, image, table, div, form, etc were used. CSS was used to design the texts, pictures, and colors. CSS was used to make the website more appealing. CSS was essentially used to style the website. Internal, inline, and external CSS were used. Different tags and attributes for CSS were also used. JavaScript was used to make the website responsive. JavaScript assists to make the site interactive with the user. JavaScript was used to dynamically change the structure of the website.

## **2. Discussion and Analysis**

### **2.1 Visual Studio Code**

Visual studio code was used to code HTML, CSS, and JavaScript for my coursework. Visual Studio Code is free software made by Microsoft for Windows, Linux, and macOS to code. I decided to use this text editor because it has a wide range of functionality which makes the coding easier and faster. It is free and user-friendly. Visual Studio Code is quite popular among developers. We can easily add extensions too. Visual Studio Code can be used to code different types of programming languages such as Java, JavaScript, Python, Node.js, C++, and many more.

### **2.2 Balsamiq Wireframes**

Balsamiq Wireframes was used to develop wireframes for my page. Balsamiq wireframes is developed by Balsamiq Studios, LLC for Windows and macOS. It is software specifically made to create wireframes. It is very user-friendly and has all the tools required to make the layout or skeleton of our website. It has pre-built functions and icons for use to use while making wireframes. We just have to drag and drop the icons.

### **2.3 Webpages made**

#### **2.3.1 Home Page**

The home page I've created is of a simple design. Firstly, a background image is inserted using CSS. It is used to cover the whole page. A navigation bar is inserted using the unordered list at the top of the page. A heading text is written and with the help of CSS, it is positioned at the center of the page. A border of 4px solid white is made top and bottom of the text. A link to the CV page is made below the text.

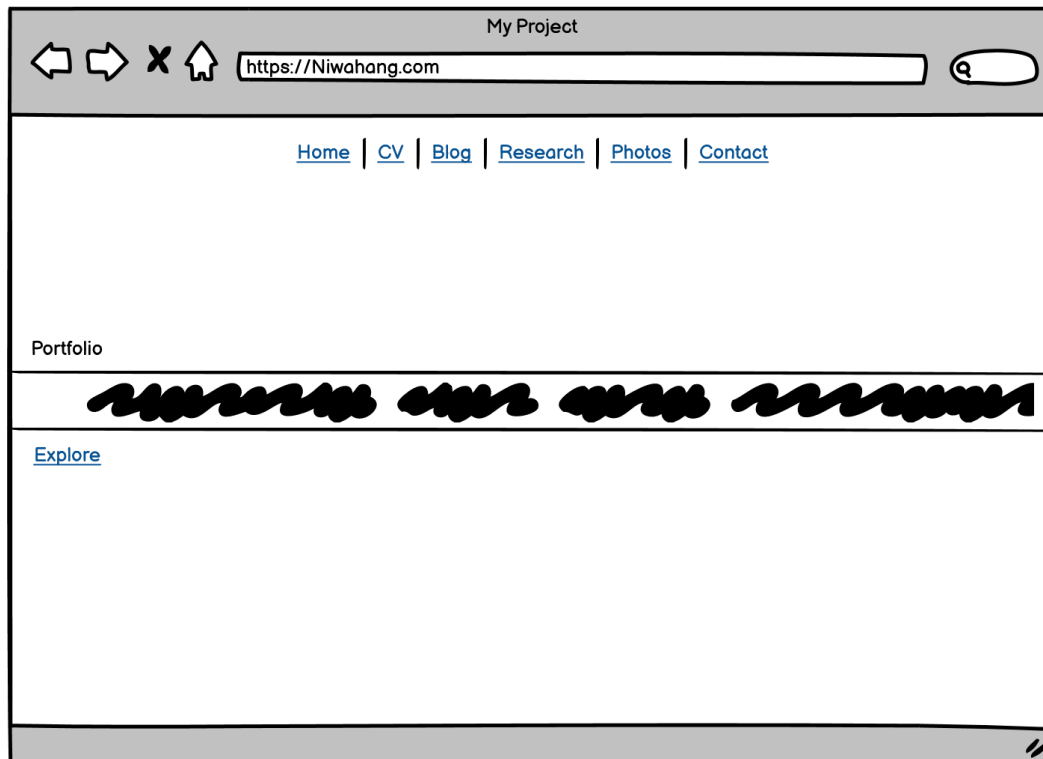


Figure 1 Wireframe of Home page

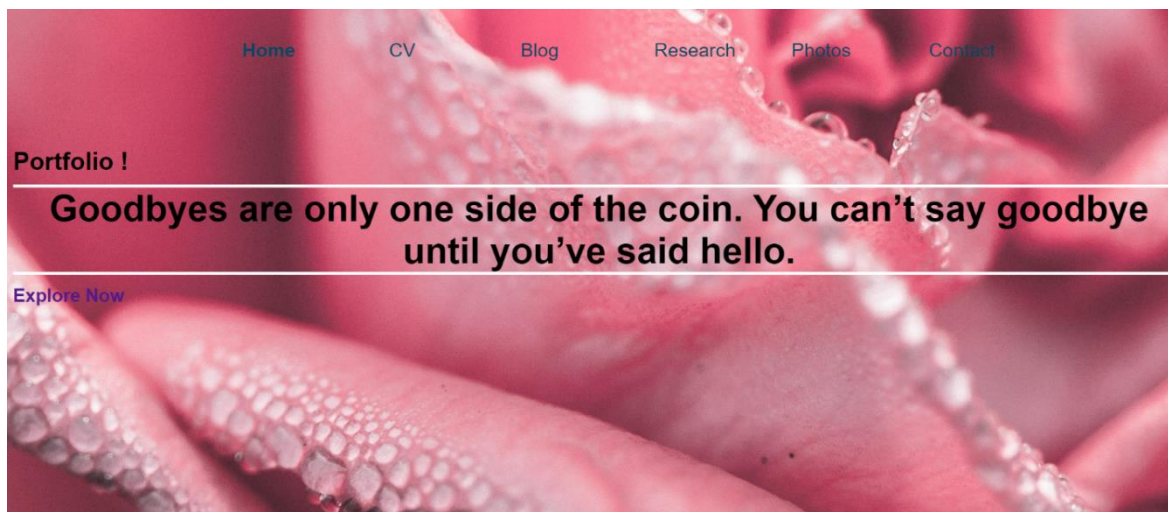


Figure 2 Screenshot of Home page

### 2.3.2 CV Page

For the CV page, another background image is used using CSS. It also covers the whole page. The same navigation bar is used again. On the left, an image is inserted adjusting its height and width with inline CSS. Below the image, my info is included. On

the right side, there includes some information about me. The left side and right side are parted using flex display in CSS and headings, unordered and ordered lists are used.

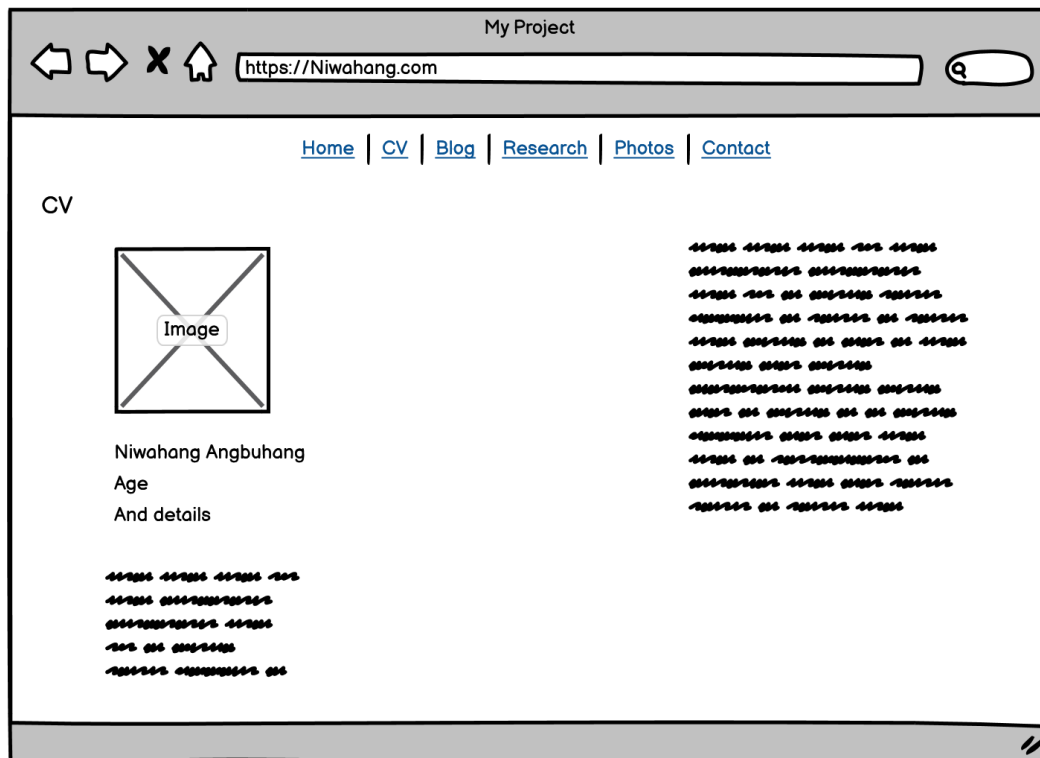


Figure 3 Wireframe of CV page

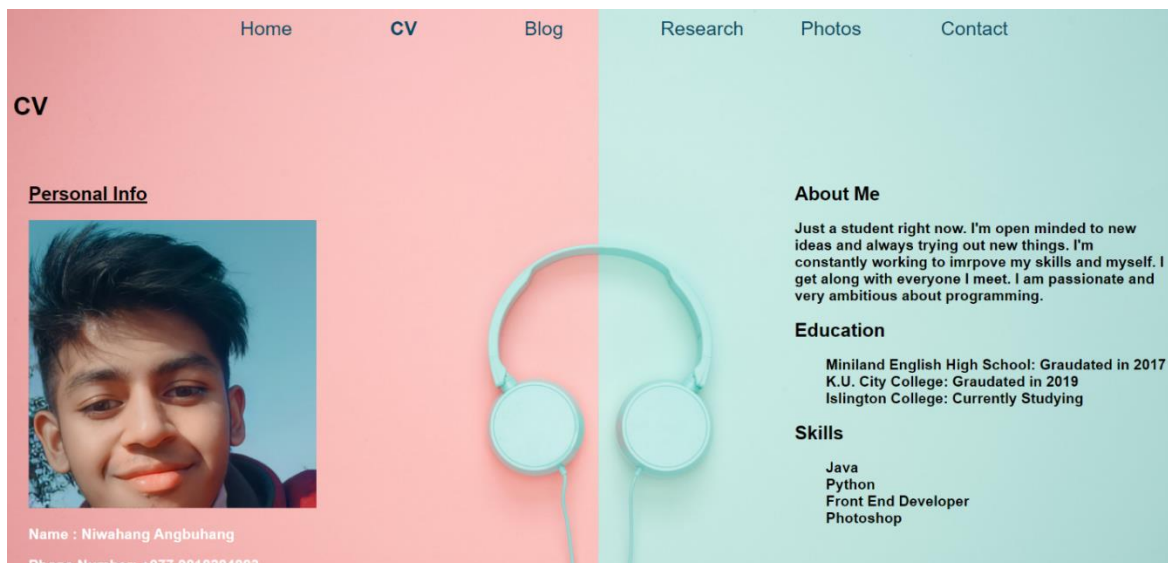


Figure 4 Screenshot of CV page

### 2.3.3 Blog Page

For the blog page, a background image is used again. A header is used at the top and aligned at the center. The blog is about How Technology has affected our daily lives. The navigation bar is used again. Different div classes are made, and introduction text is inserted then an image is inserted at the center. The advantages and disadvantages are parted left and right using a flex display. Finally, a footer is inserted at the bottom.

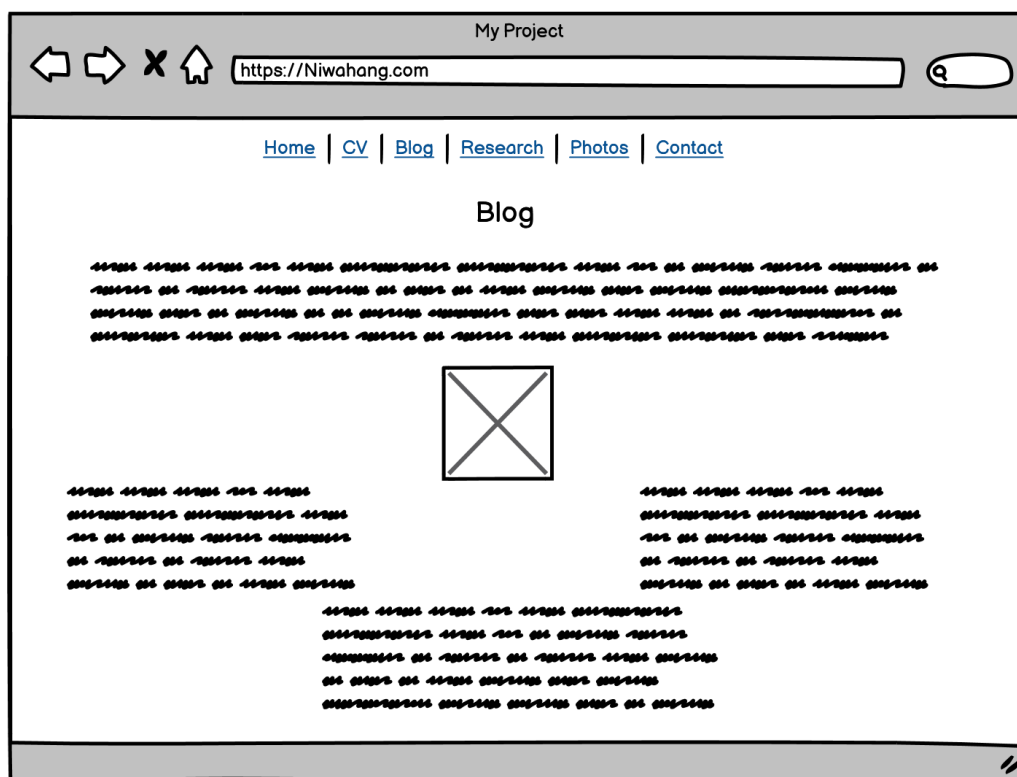


Figure 5 Wireframe of Blog page



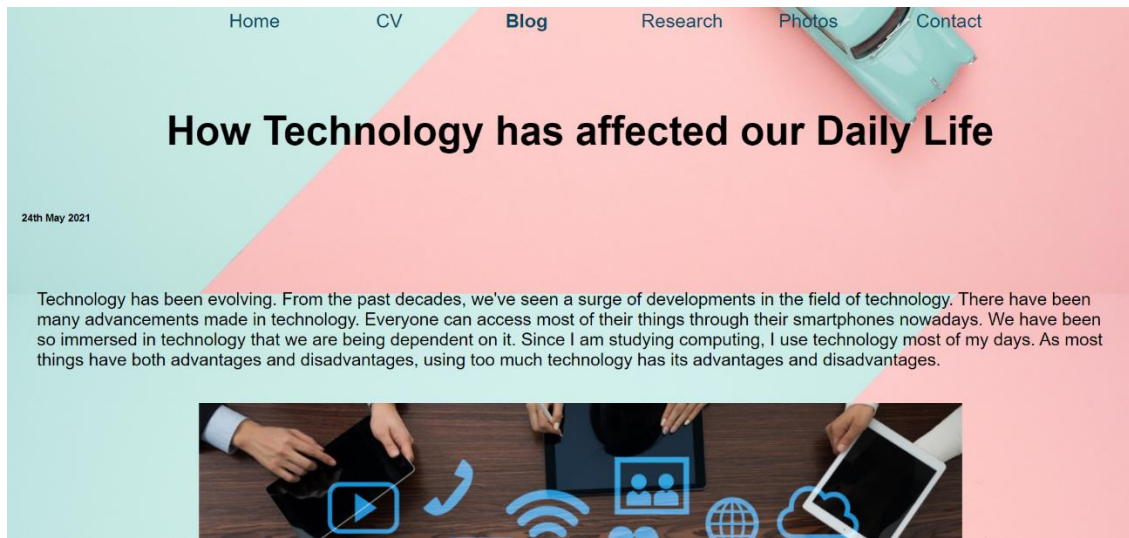


Figure 6 Screenshot of the Blog page

#### 2.3.4 Research Page

Similar to other pages, a background image, and the navigation bar are inserted. A heading is inserted at the top of the page. An unordered list is used with no list style type. A link to the reference webpage is inserted at the top and images of the researched web page and my web page is inserted. A toggle button is inserted to alter the two images. The toggle function is added by using JavaScript. Below the images, descriptions of the pages are written. The same is done for five other researched web pages.

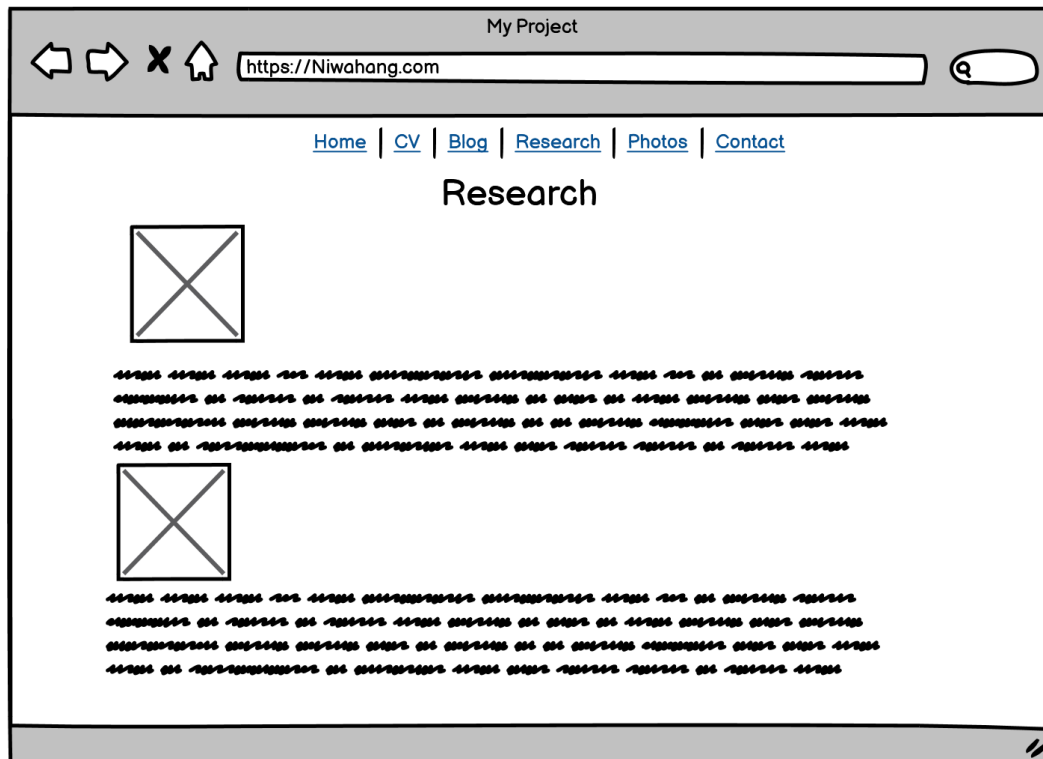


Figure 7 Wireframe of Research page

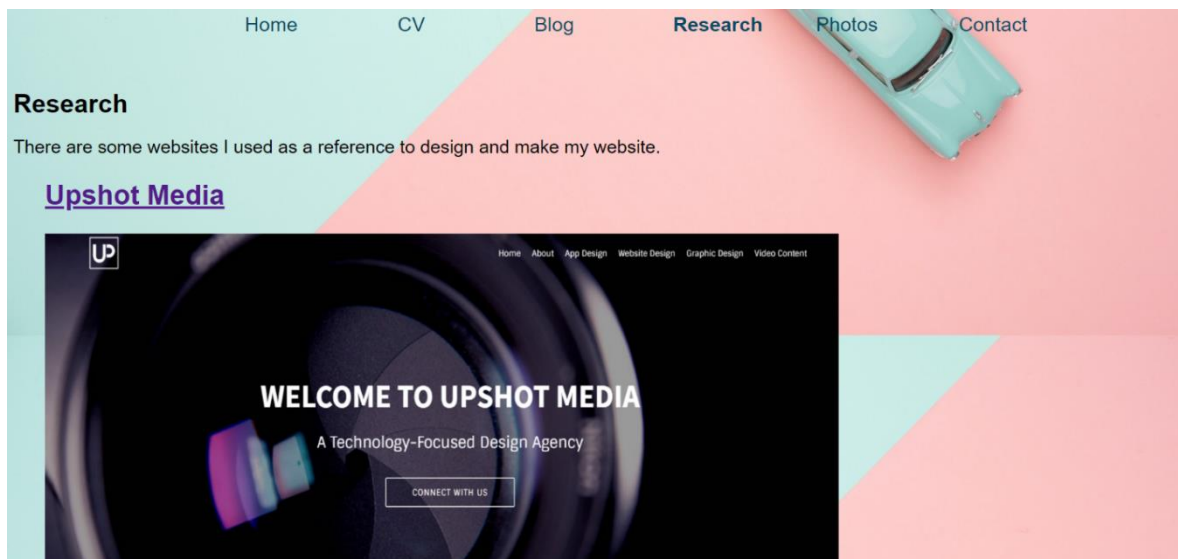


Figure 8 Screenshot of Research page

### 2.3.5 Photos Page

The navigation bar and the background image are added to the photos page too. A heading is inserted at the top of the page. A paragraph tag is used to insert some texts. Then a div class is made for the images. A total of 17 images are inserted. Using JavaScript, only one image is shown with an increment of 1 image every 5 seconds. At the bottom, the previous and next buttons are inserted. The previous button displays the previous image and the next button displays the next image as the name suggests.

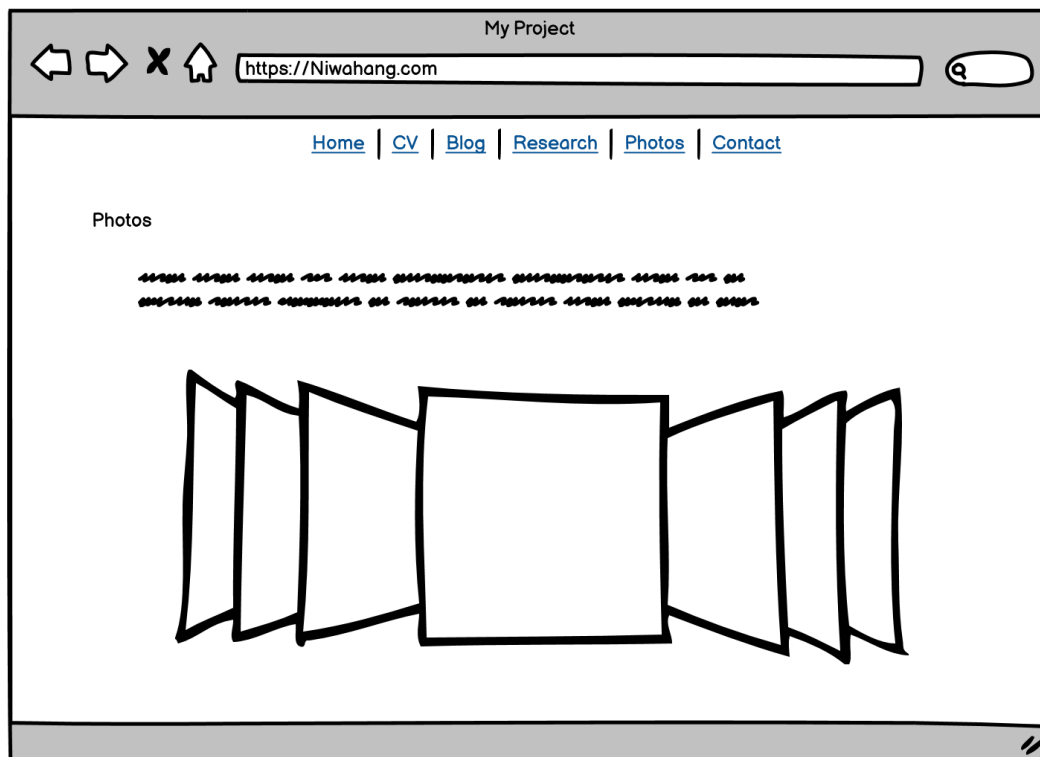


Figure 9 Wireframe of the Photos page

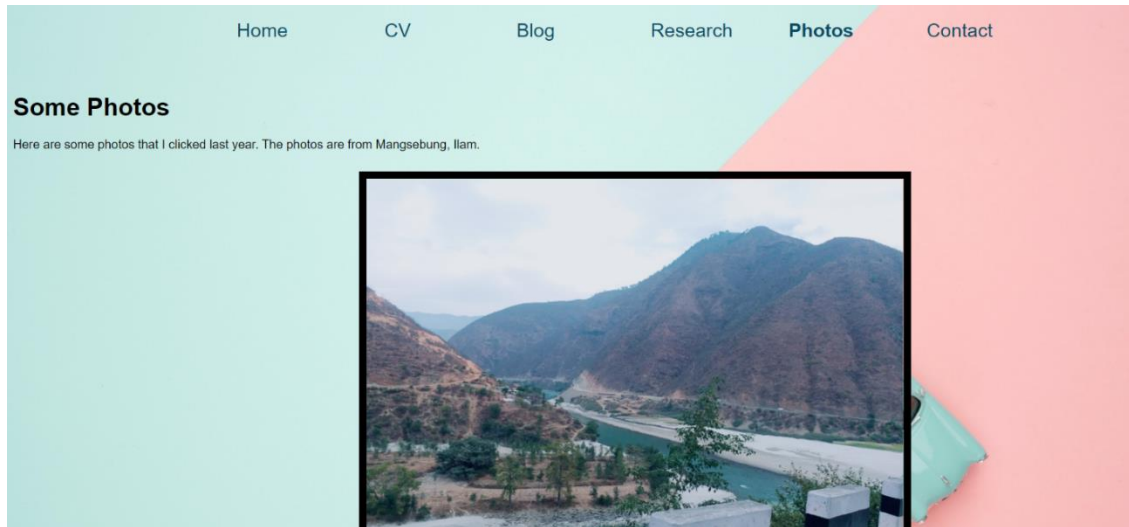


Figure 10 Screenshot of the Photos page

### 2.3.6 Contact Page

Finally, for the contact page similar to other pages background and navigation bar are inserted. A form is inserted on the left. The form has four input text areas i.e., First Name, Last Name, Phone Number, E-mail Address and Message, and a radio button i.e., Gender. A submit button is at the bottom of the form to submit the form. The form is made responsive using JavaScript. On the right side, a heading is used and a link to my social media is inserted.

My Project

Navigation: [Home](#) | [CV](#) | [Blog](#) | [Research](#) | [Photos](#) | [Contact](#)

## My Contact

First Name:

Last Name:

Gender: ☐ Male ☐ Female

Phone Number:

E-Mail:

Message:

Social Media

Placeholder for social media links (represented by a grid of dots in the wireframe).

Figure 11 Wireframe of Contact page

Navigation: [Home](#) [CV](#) [Blog](#) [Research](#) [Photos](#) [Contact](#)

## Contact

Please fill up the form and I'll contact you.

First name:

Last name:

Gender: ☒ Male ☐ Female

Phone Number:

E-mail Address:

Message:

### My Social Media

[Facebook](#)

[Instagram](#)

[Twitter](#)

Figure 12 Screenshot of Contact page

### 3. Testing

#### 3.1 Test 1

<b>Test Number:</b>	<b>1</b>
<b>Objective:</b>	To check the font color and weight of the link when hovering over the mouse and when the page is active.
<b>Action:</b>	The mouse was hovered on the active page in the navigation bar.
<b>Expected Result:</b>	The color and weight should change to brown and bold respectively.
<b>Actual Result:</b>	The color and weight were changed to brown and bold respectively.
<b>Conclusion:</b>	The test was successful.

Table 1 Test table 1

Output Result:



Figure 13 Before mouse is hovered



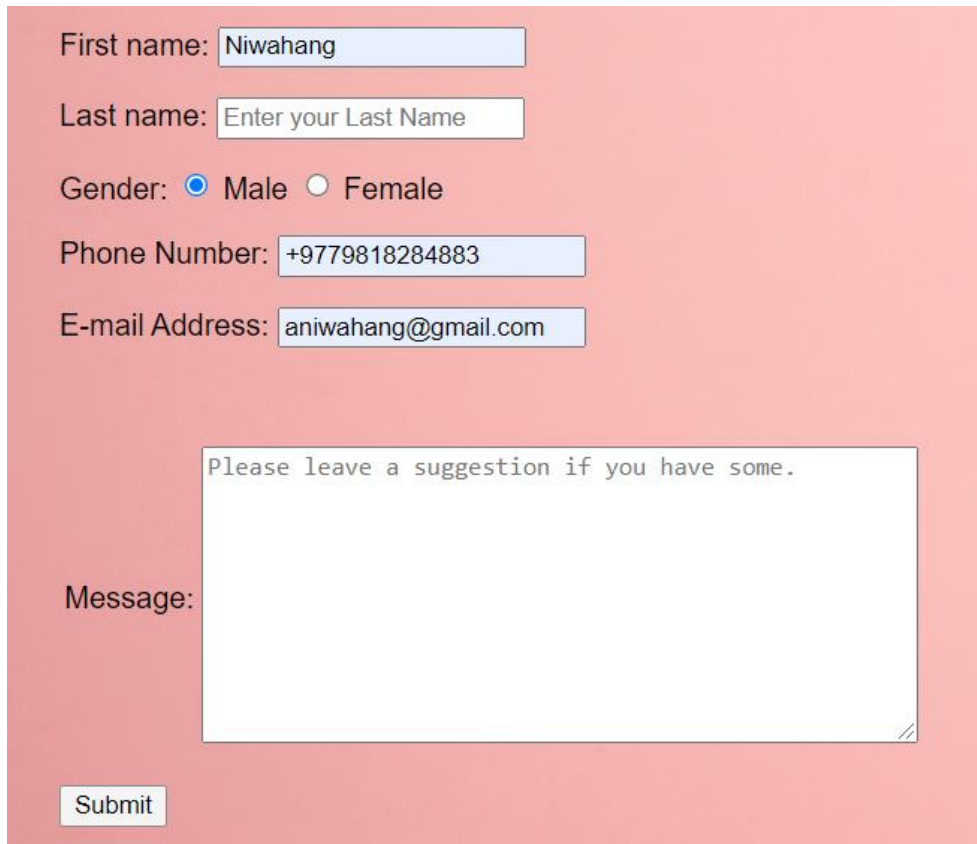
Figure 14 After mouse is hovered

#### 3.2 Test 2

<b>Test Number:</b>	<b>2</b>
<b>Objective:</b>	To check the alert message displayed on the contact page when there are empty fields.
<b>Action:</b>	The form is filled up except for the last name and submitted.
<b>Expected Result:</b>	An alert message should be shown notifying that there are empty fields.
<b>Actual Result:</b>	An alert message was shown notifying that there are empty fields.
<b>Conclusion:</b>	The test was successful.

Table 2 Test Table 2

## Output Result:



First name: Niwahang

Last name: Enter your Last Name

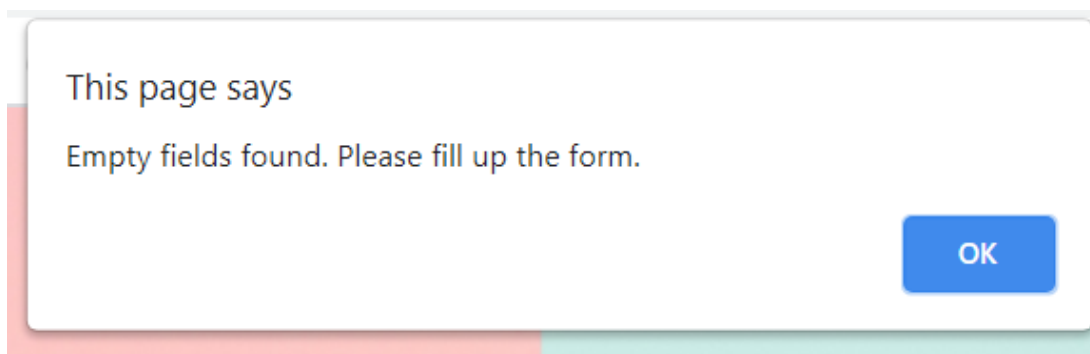
Gender: ☒ Male ☐ Female

Phone Number: +9779818284883

E-mail Address: aniwahang@gmail.com

Message: Please leave a suggestion if you have some.

Submit

*Figure 15 Form is filled except last name*

This page says

Empty fields found. Please fill up the form.

OK

*Figure 16 Alert message*

### 3.3 Test 3

<b>Test Number:</b>	<b>3</b>
<b>Objective:</b>	To check the alert message displayed on the contact page when all the fields are inserted.
<b>Action:</b>	The form is submitted after inputting proper values.
<b>Expected Result:</b>	An alert message should be shown notifying that the response has been recorded.
<b>Actual Result:</b>	An alert message was shown notifying that the response has been recorded.
<b>Conclusion:</b>	The test was successful.

Table 3 Test Table 3

Output Result:

First name:

Last name:

Gender: ☒ Male ☐ Female

Phone Number:

E-mail Address:

Message: 

Test Message.

Figure 17 Form is properly filled



This page says

Your response has been recorded.

OK

Figure 18 Alert Message

### 3.4 Test 4

<b>Test Number:</b>	<b>4</b>
<b>Objective:</b>	To check if the photos change automatically after some seconds and change when the next or previous button is clicked.
<b>Action:</b>	<ul style="list-style-type: none"> <li>→ Wait for 5 seconds.</li> <li>→ Click on the previous button.</li> <li>→ Click on the Next button.</li> </ul>
<b>Expected Result:</b>	The photo on the web page should change.
<b>Actual Result:</b>	The photo on the web page was changed.
<b>Conclusion:</b>	The test is successful.

Table 4 Test Table 4

Output Result:

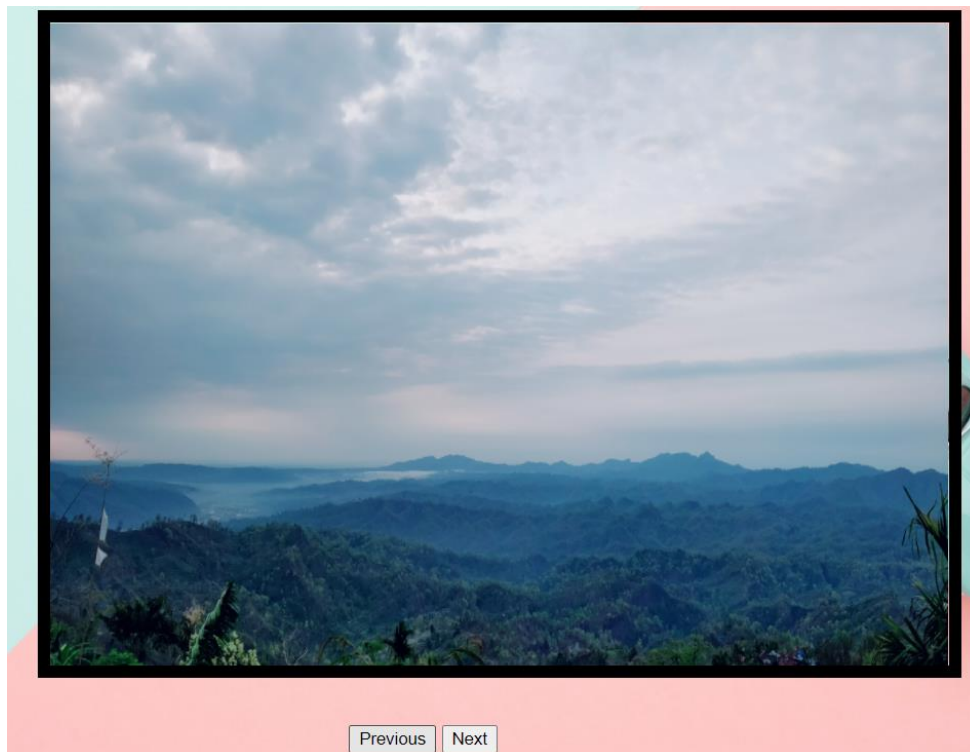


Figure 19 Image after 5 seconds

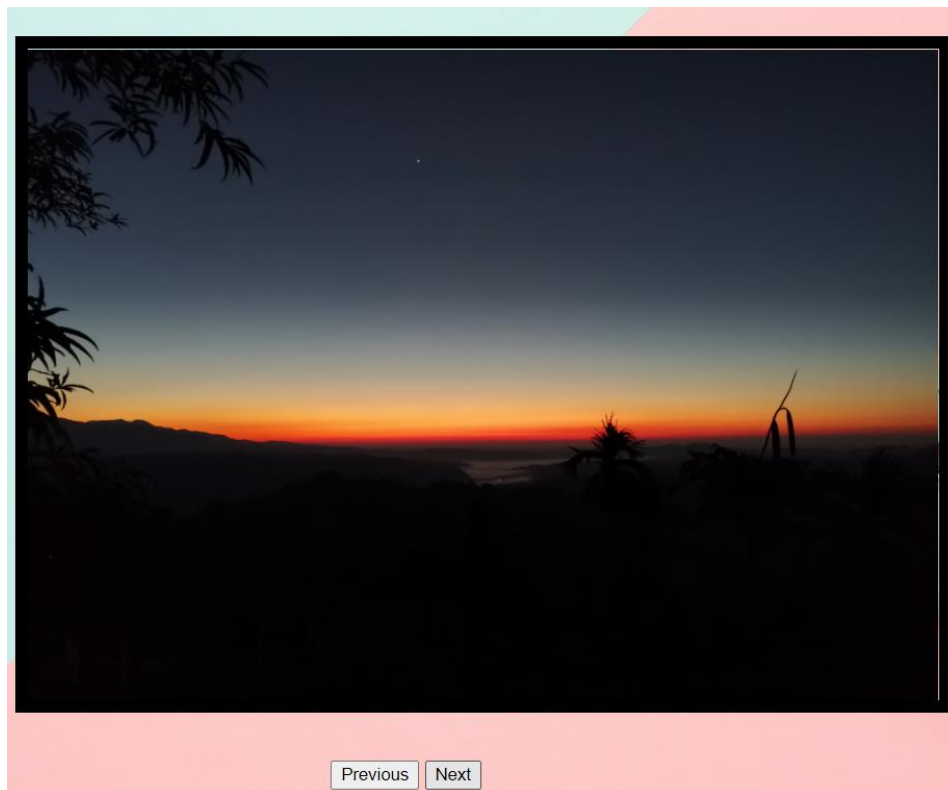


Figure 20 Image after clicking Next

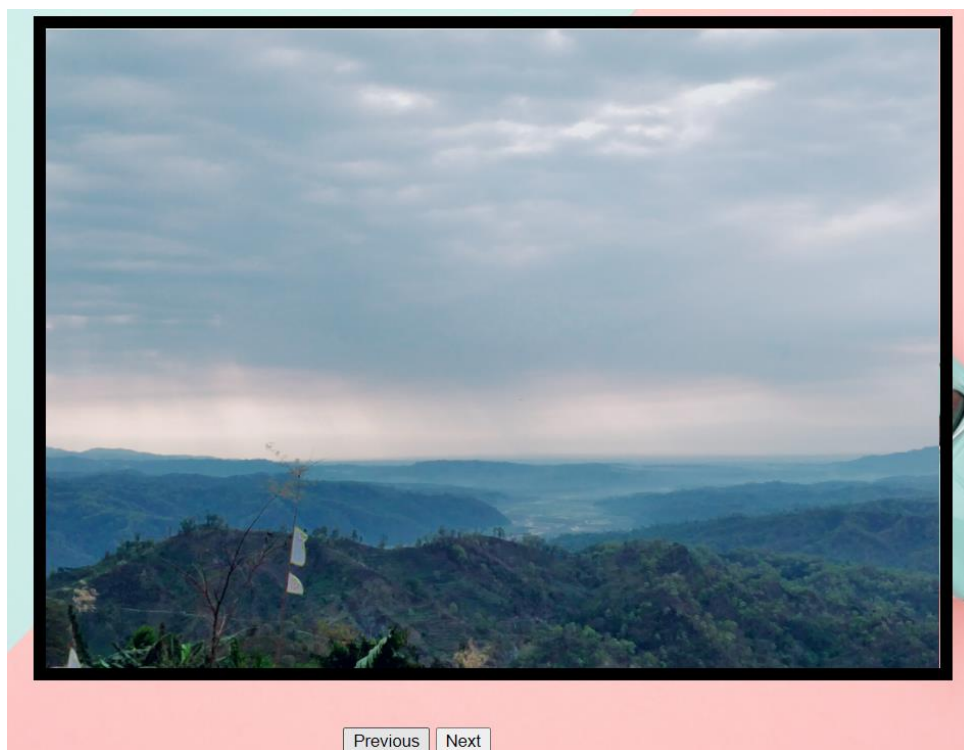


Figure 21 Image after clicking Previous

### 3.5 Test 5

<b>Test Number:</b>	<b>5</b>
<b>Objective:</b>	To check if the image toggles in the research page when clicked the toggle button.
<b>Action:</b>	Click on the toggle button two times.
<b>Expected Result:</b>	The image should change.
<b>Actual Result:</b>	The image was changed.
<b>Conclusion:</b>	The test is successful.

Table 5 Test Table 5

Output Result:

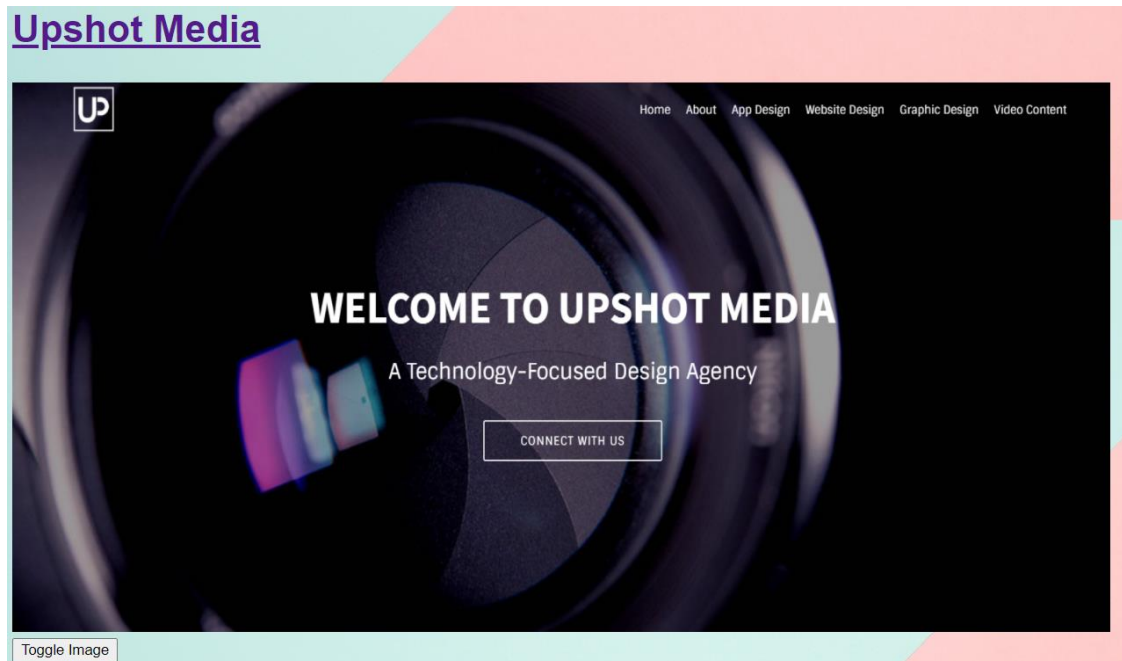


Figure 22 Image before

## Upshot Media

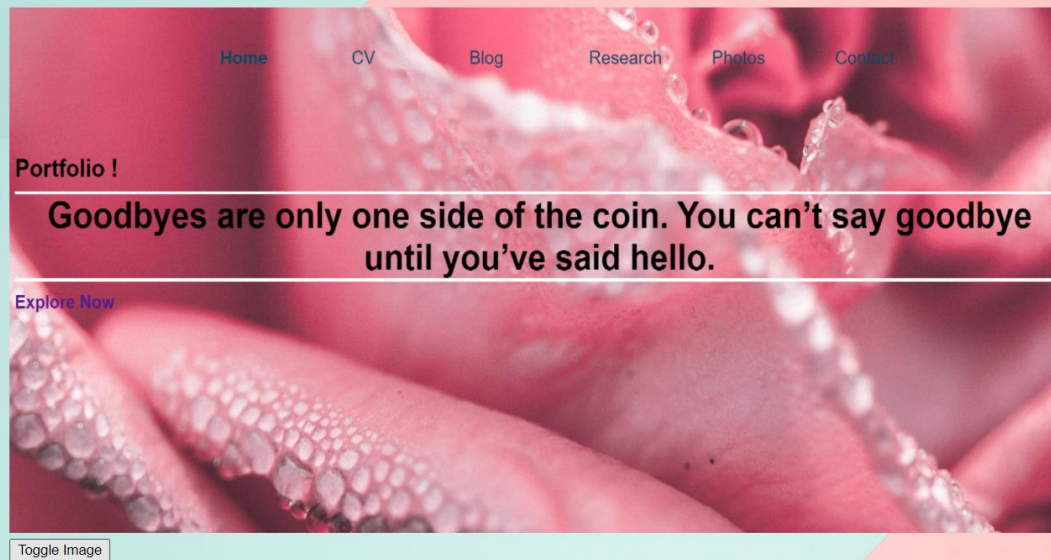


Figure 23 Image after clicking the Toggle button

## Upshot Media

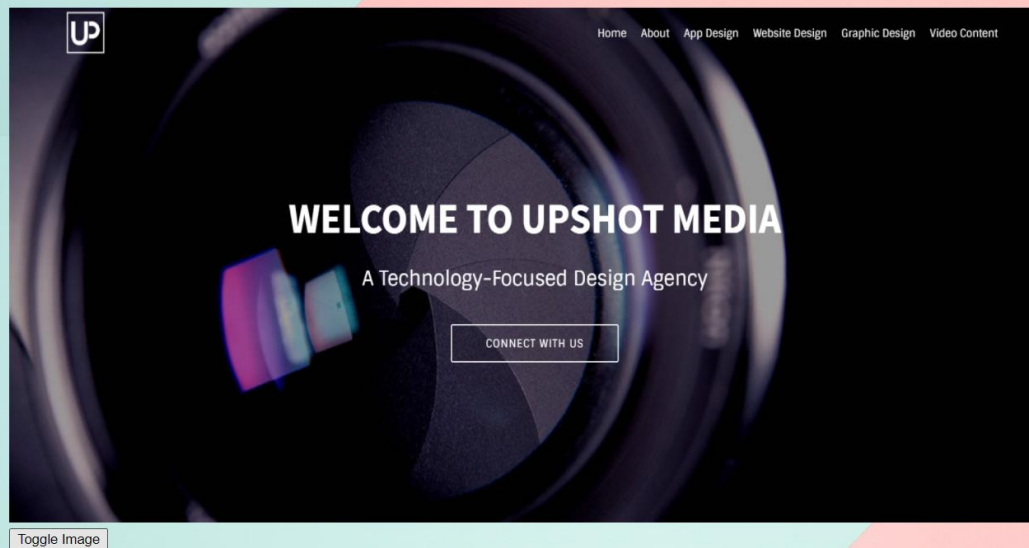


Figure 24 Image after clicking the Toggle button again

#### **4. Conclusion**

Throughout the coursework, I implemented most of the things I had learned in classes. I believe that I have improved my knowledge of HTML, CSS, and JavaScript. After learning and practicing making web pages, I've finally made my website. The concepts about some HTML tags and CSS attributes I was confused about before are understandable now. I learned about the tags, different attributes in CSS, and functions in JavaScript after many trials and errors done during my coursework.

The coursework details were confusing at first, but the teachers helped me understand the questions and what to do on the web pages during the classes. I made many errors during the coding process but after reviewing the classes and searching on the internet I solved those errors. After researching different things on the internet and finally completing my coursework, I'm confident that I can build a much better website than this one the next time I create one.