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1. Introduction

This is a report on an Information System project in which we were required to create a portfolio website using HTML, CSS, and JavaScript. This task was considered to be simple, but it proved to be a difficult one to do. This task takes a lot of study, effort, and attention to complete. The assignment's brief is outlined below.

In this project, we were required to create a portfolio website with at least five pages. Home Page, CV Page, Blogs Page, Research Page, and Contact Page are among the five pages. The Home page contains a navigation bar, image and five tables that links to other pages. The second page is the CV page that contains the navigation bar, my personal image and my general information. It includes my Education, Experience and Skills. And there are also links to my social media sites. The third page is a Blog page that consists of a navigation bar, an image, Short description of technology and negative and positive impact of it. The fourth page is Research page that is based on the study I conducted while creating the web pages. It includes screenshots of websites from which I drew inspiration for the web page, as well as an explanation. The fifth page is the contact page. This page includes text field which is to be filled by the user to send message or to contact me. There is also a send button which in click sends the message with other information that is filled.

It was not a simple task to design the web pages. It was created using high-end web technology. The website was created using web technologies such as HTML, CSS, and JavaScript. These web technologies are briefly outlined below.

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1.1. HTML

HTML, or HyperText Markup Language, is the standard markup language for texts that are intended to be viewed on a web browser. HTML is the standard markup language for creating web page. HTML consists of a series of elements. This language is used to give the web page structure. HTML stands for "Hypertext Markup Language." It is a collection of tags. It's a cross between hypertext and mark-up language.The term "hypertext" refers to the link between web pages. Mark-up language is a type of mark-up language that is used to offer structure to web pages, enclose a text document within a tag. HTML was created in the year. Tim Berners-Lee invented the World Wide Web in 1991. HTML 2.0 was the first standard version, and it was released in 1996. It was first released in 1999.

    <!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body>

</body>

</html>

The doctype tag specifies the HTML version, and the html tag is the root element. The metadata of the page is contained in the head, and the title tag is used to give the web page a title. The entire HTML information is included within the body tag. The tags are opened with a <> symbol and closed with a < /> symbol. The tag should be closed after it has been opened. This language is simple to pick up and utilize. It is platform agnostic. It is supported

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by all browsers and can be combined with other languages such as CSS, JavaScript, and PHP.

1.2. CSS

CSS stands for abbreviation for "Cascading Style Sheets." The goal of this language is to make the process of creating a website as simple as possible. It enables us to apply styles and designs to our webpages in accordance with our preferences, needs, and desires in order to make them look great. It's simple to learn and comprehend, yet it provides the HTML web page a stunning presentation. On October 10th, 1994, Hakon Wium proposed this language. Since SGML's inception in the 1980s, stylesheets have existed in various forms, and they were created to provide web pages styling.

There are three forms of CSS that are often used. External CSS, Internal CSS, and Inline CSS are the three types. These CSS are utilized according to the requirements of the web page and the user. When more than one web page utilizes the same style, external CSS is employed. It's written in an external file, with a link in the html file. When the same style is used on multiple web pages, internal CSS is used. In HTML, it's written inside the style tag. When a specific element has its own style, inline CSS is utilized.

1.3. JavaScript

It's a scripting language for making web pages more alive and responsive. It's frequently employed in client-side web development. Despite the similarity in name, it has nothing to do with the Java computer language. It was created with the intention of making HTML pages more interactive. It is a programming language with a small footprint. It is made up of lines of computer code that can be executed. It is inserted straight into HTML pages. Brendan Eich designed it in 1995 while working at Netscape Communications.

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2. Discussion and Analysis

It may seems that designing a website is a simple task, but it is not. Before beginning to work on codes, one must understand what to do, where to do it, and when to do it. A website can be created with any random piece of code, but a website that does not attract visitors is not deserving of the title. Client verification is another aspect of web development. If a developer can't build or design a website according to the client's needs and desires, he won't receive many projects and isn't considered a skilled web developer. The planning is what creates a skilled and competent web developer. Planning is an important idea in web building since it would be a waste of time if you built a website for a client and he didn't like it. As a result, the web developer intends to build the website first and then confirm the wireframe with the client.

Simply, a wireframe is a plan or blueprint of the website that we are going to develop. They're made for putting pieces in their proper places before working on the wireframe so that no errors or roadblocks arise in the middle. It shows the contents, position, and other details, but not the style, color, or function. Wireframes for the website are also created for this project. It is made with the help of the website balsamiq.com.

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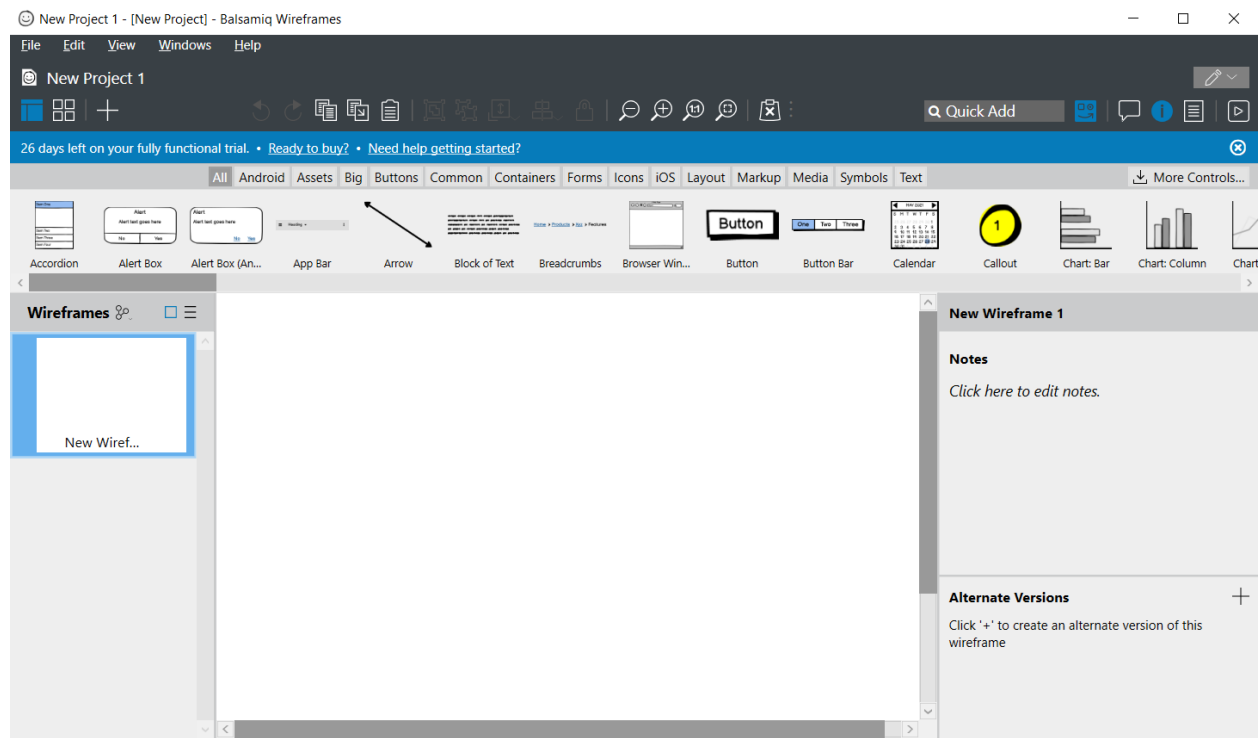
Figure 1: Figure of Balsamiq wireframe

2.1.   Wireframes
   i.   For Home.html
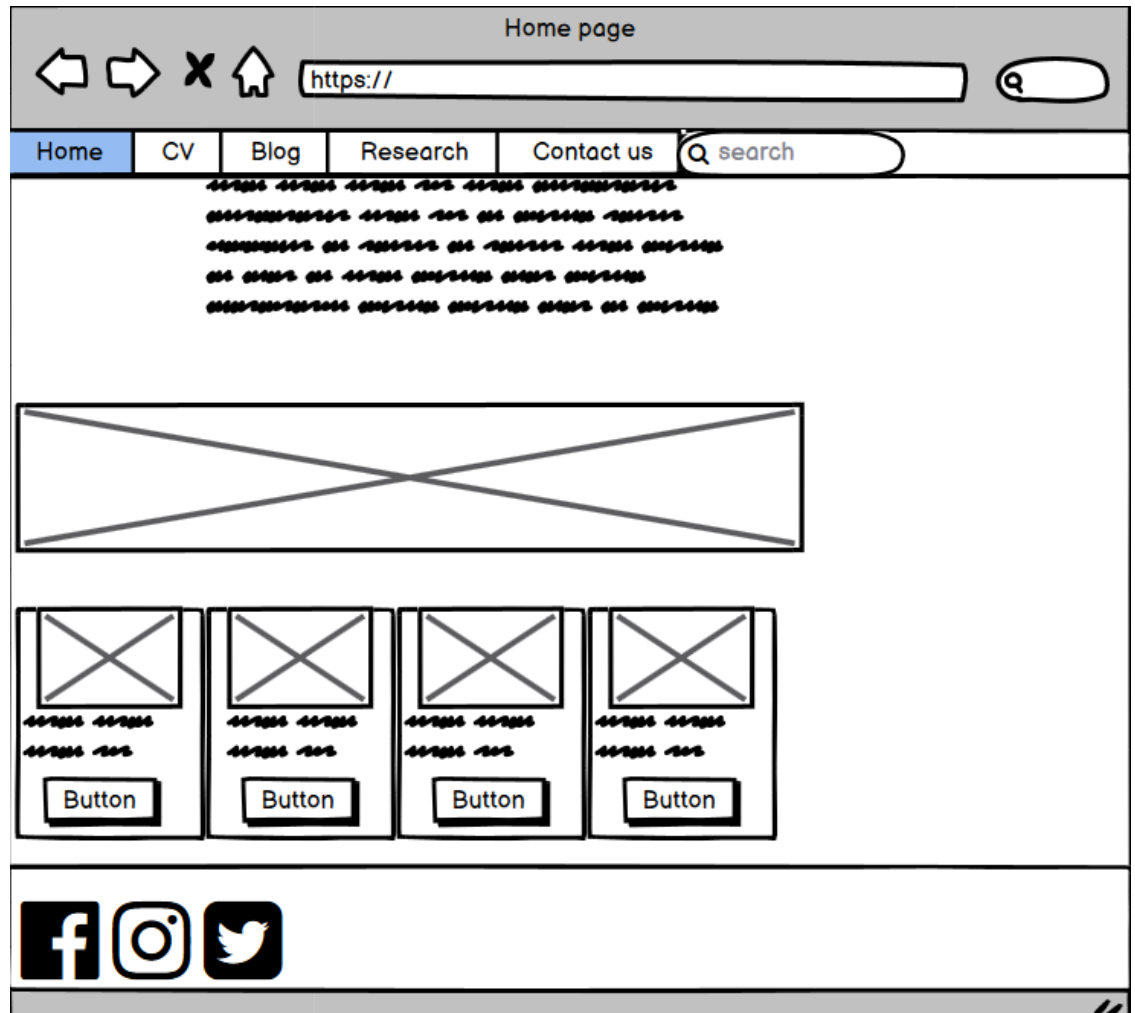
Figure 2: wireframe of Home page
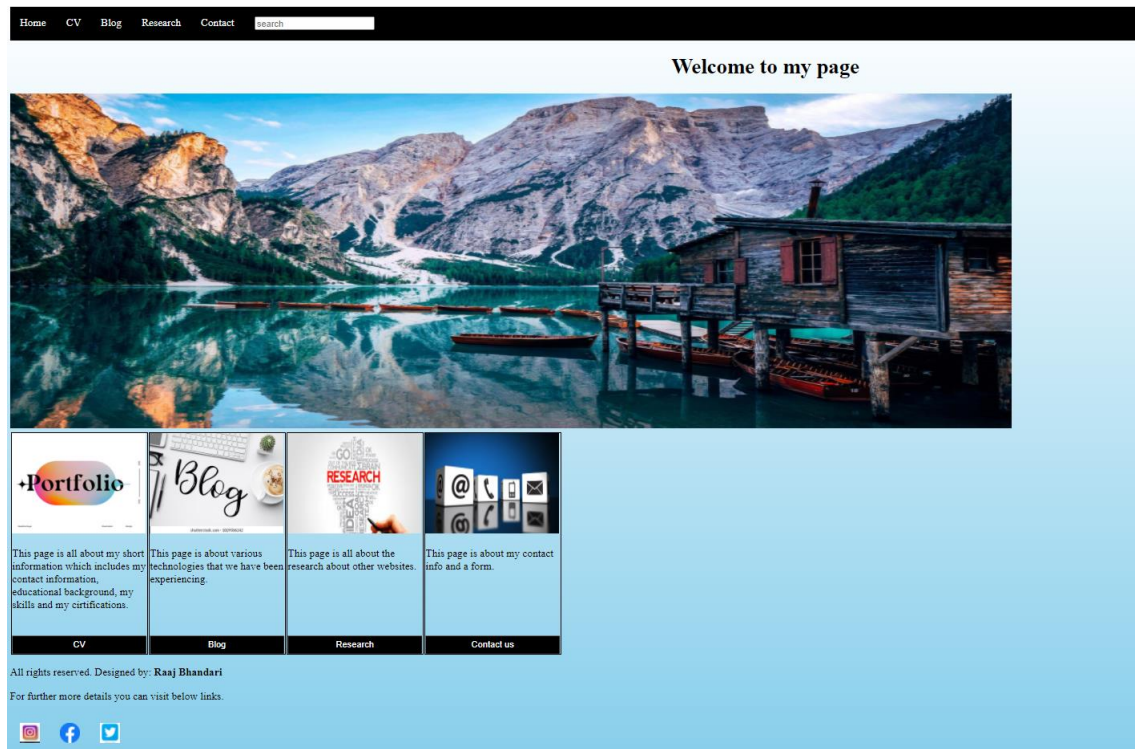
Figure 3: webpage of home page

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ii.   CV.html
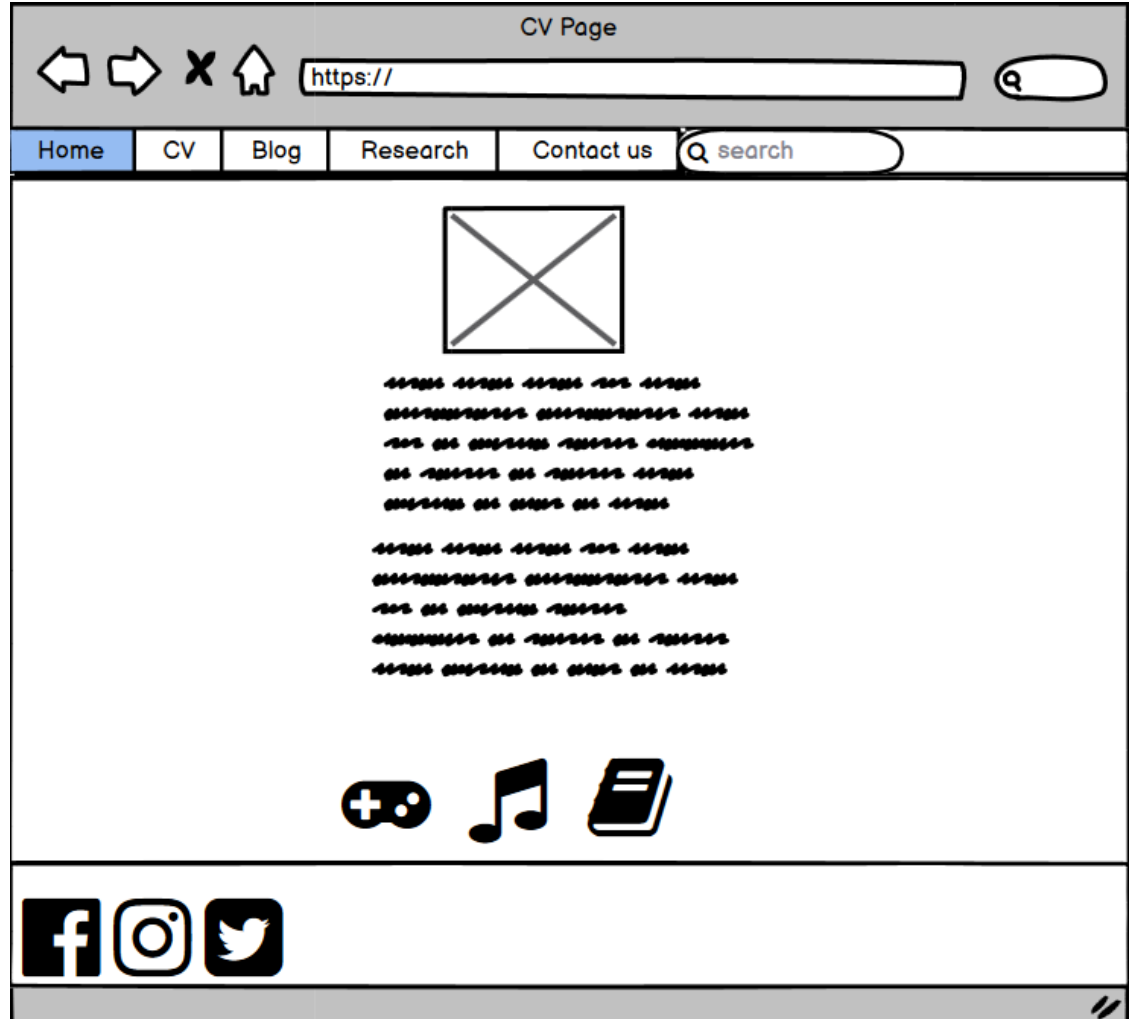
Figure 4: Wireframe of CV page
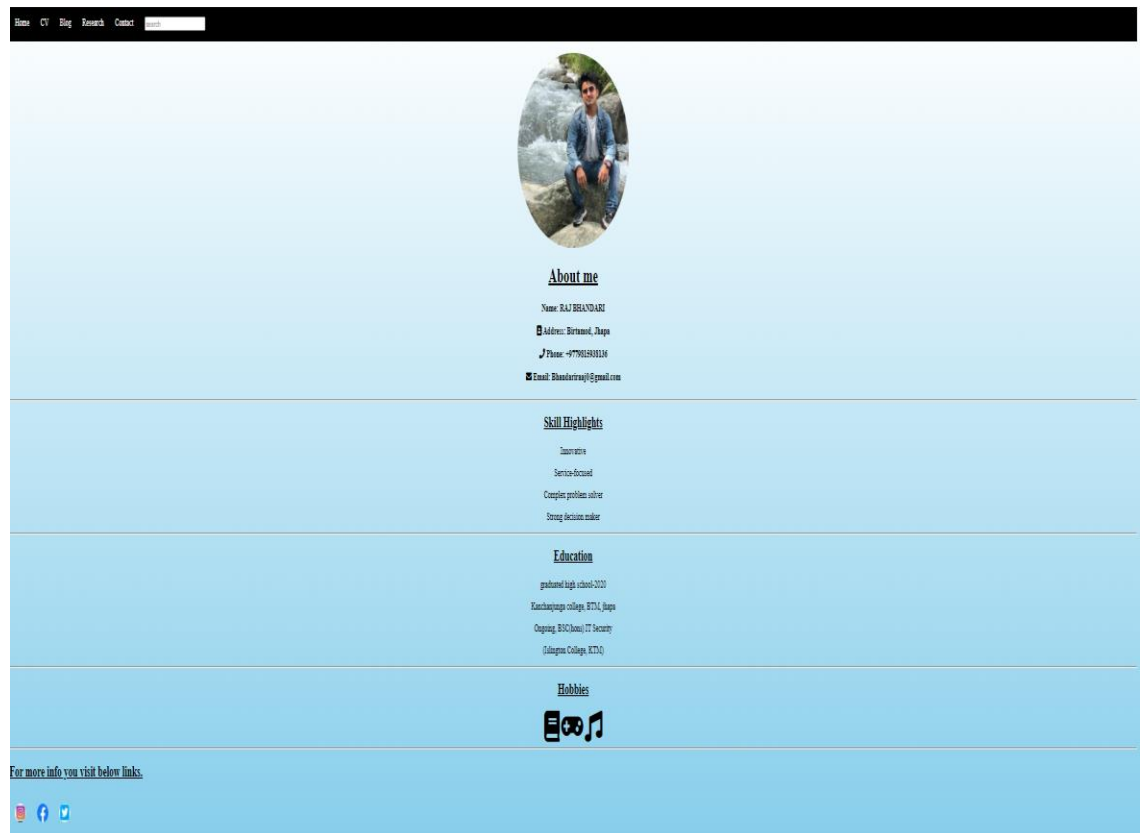
Figure 5: Web page of Cv page

iii. Blog.html
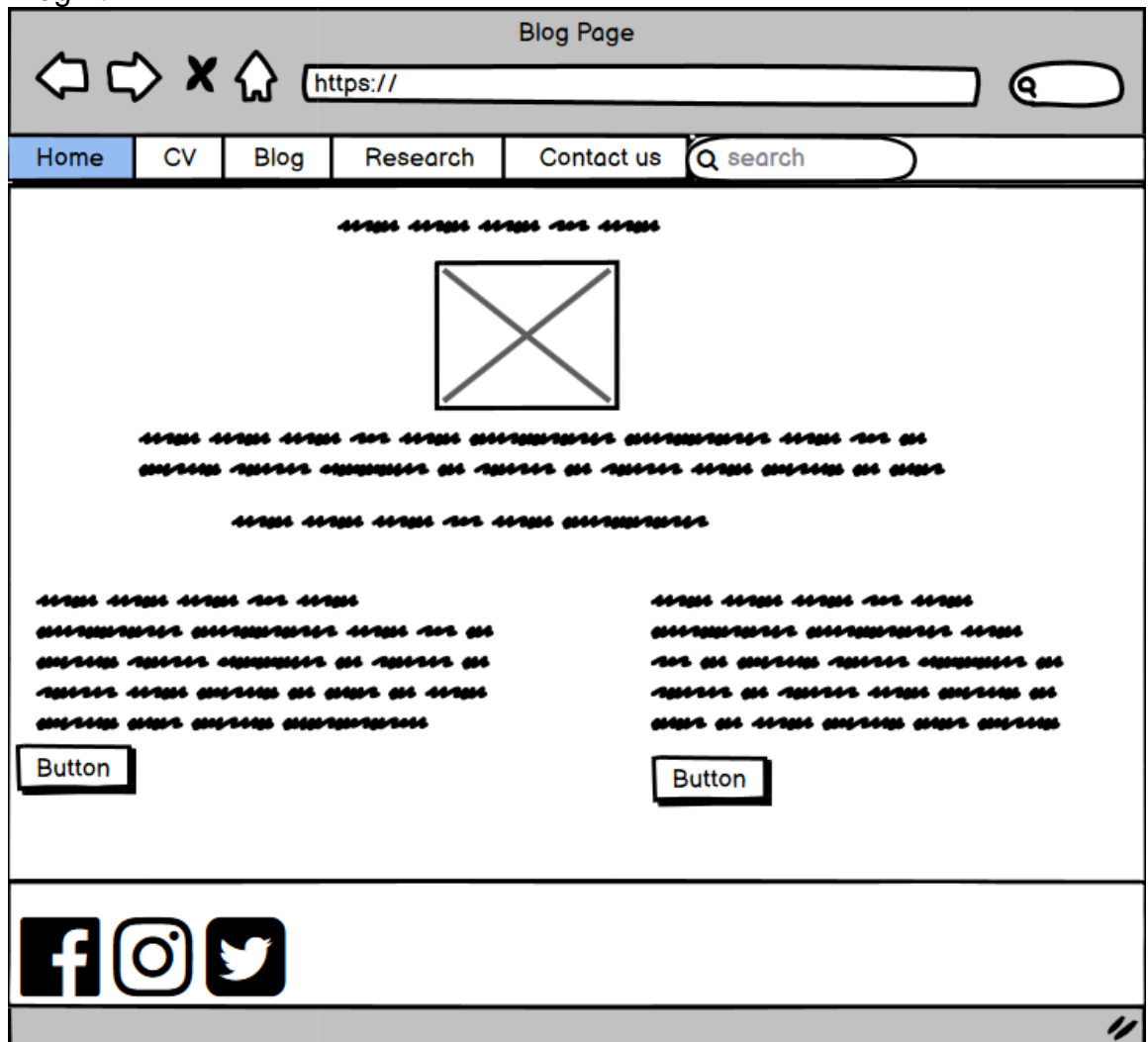
Figure 6: Wireframe of Blog page

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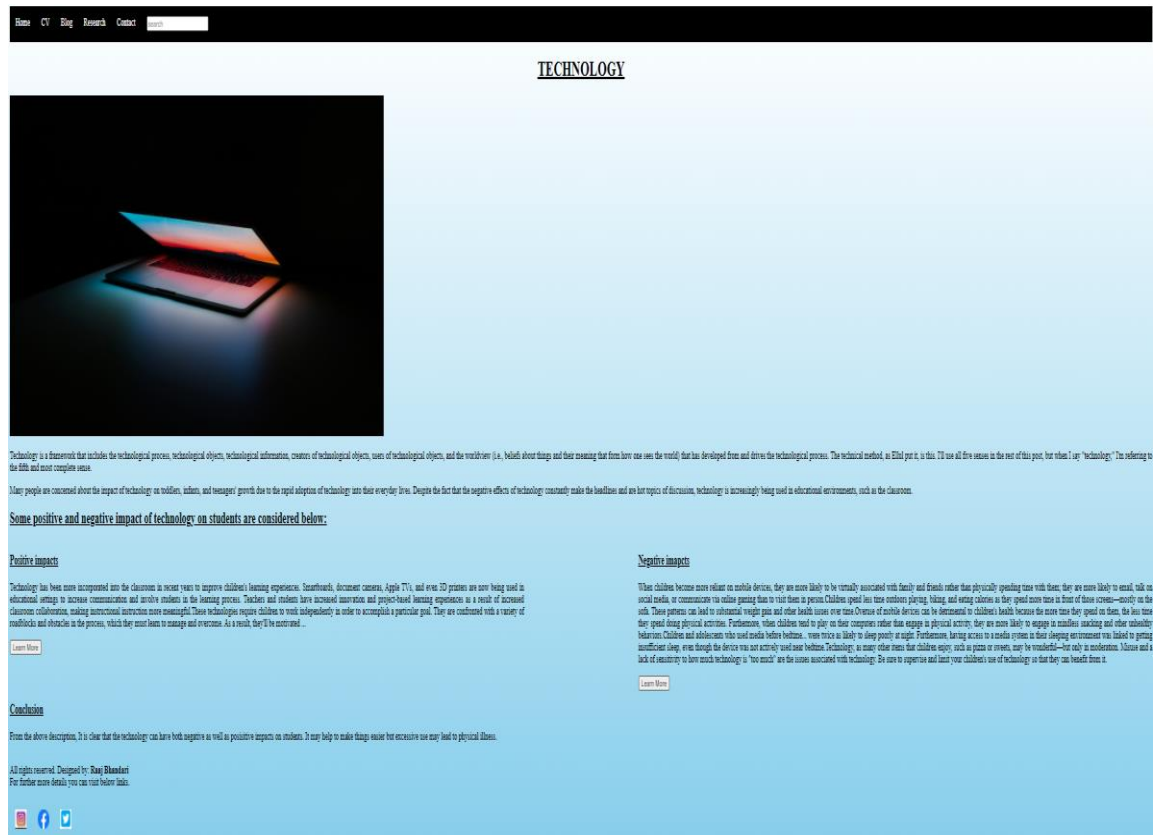
Figure 7: Web page of Blog page
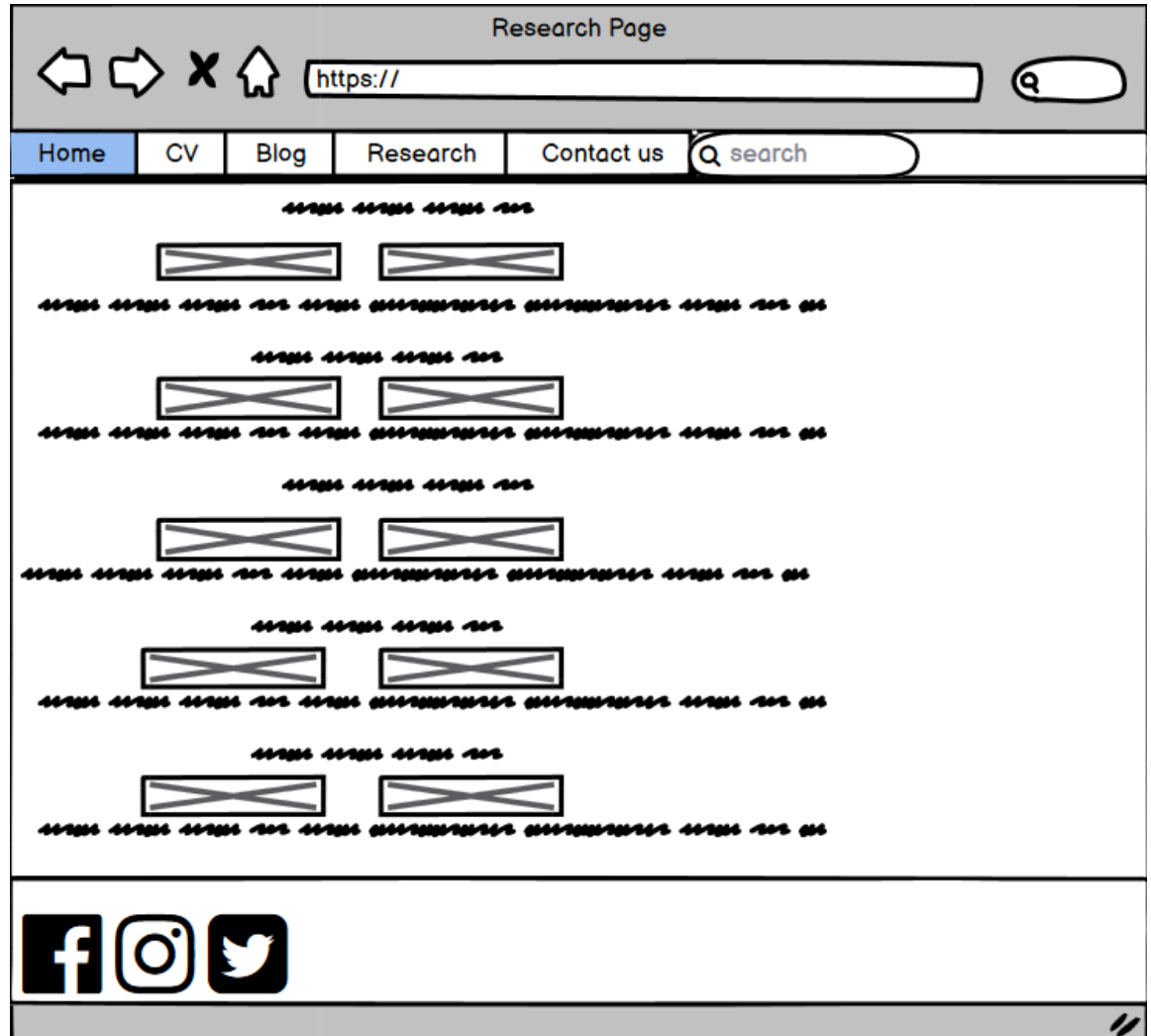
iv.   Research.html

Figure 8: Wireframe of research page

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Figure 9: Web page of research page

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v.   Contact us.html

Figure 10: Wireframe of contact us page

Figure 11: Web page of contact us page

3. Testing

3.1. Testing 1

Test No.	1
Action	In the page home.html, click on the buttons of the table.
Expected output	The selected button opens the page that the user wants.
Actual output	The page is opened.
Test Result	The test was successful.

Table 1: table of test 1

Figure 12: test 1 figure 1

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Figure 13: Test 1 figure 2

3.2.   Testing 2

Test No.	2
Action	In the page blog.html, click on the button learn more.
Expected output	The selected button opens the remaining portion of the article and the button appears as learn less.
Actual output	The article was displayed and learn less button appeared.
Test Result	The test was successful.

Table 2: Table of test 2

Positive impacts

Technology has been more incorporated into the classroom in recent years to improve children's learning experiences. Smartboards, document cameras, Apple TVs, and even 3D printers are now being used in educational settings to increase communication and involve students in the learning process. Teachers and students have increased innovation and project-based learning experiences as a result of increased classroom collaboration, making instructional instruction more meaningful.These technologies require children to work independently in order to accomplish a particular goal. They are confronted with a variety of roadblocks and obstacles in the process, which they must learn to manage and overcome. As a result, they'll be motivated ...

Learn More

Figure 14: Test2 figure 1

Positive impacts

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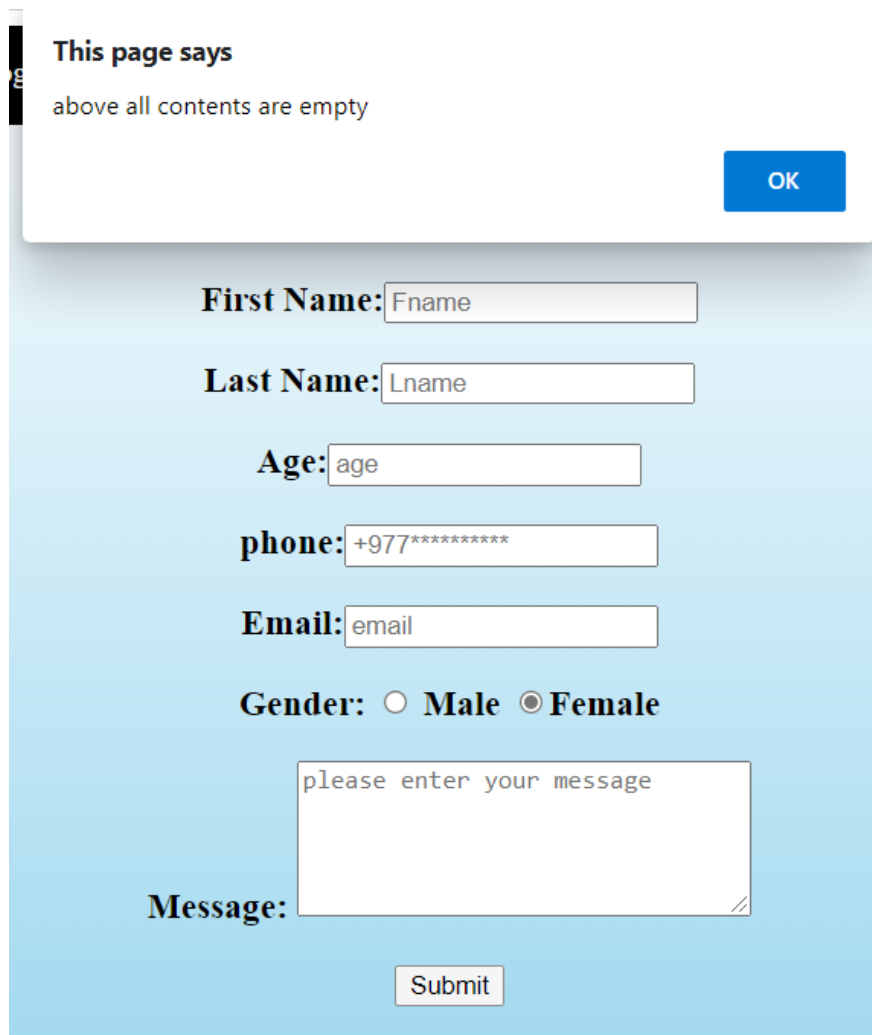
Learn less

Figure 15: Test 2 Figure 2

3.3. Testing 3

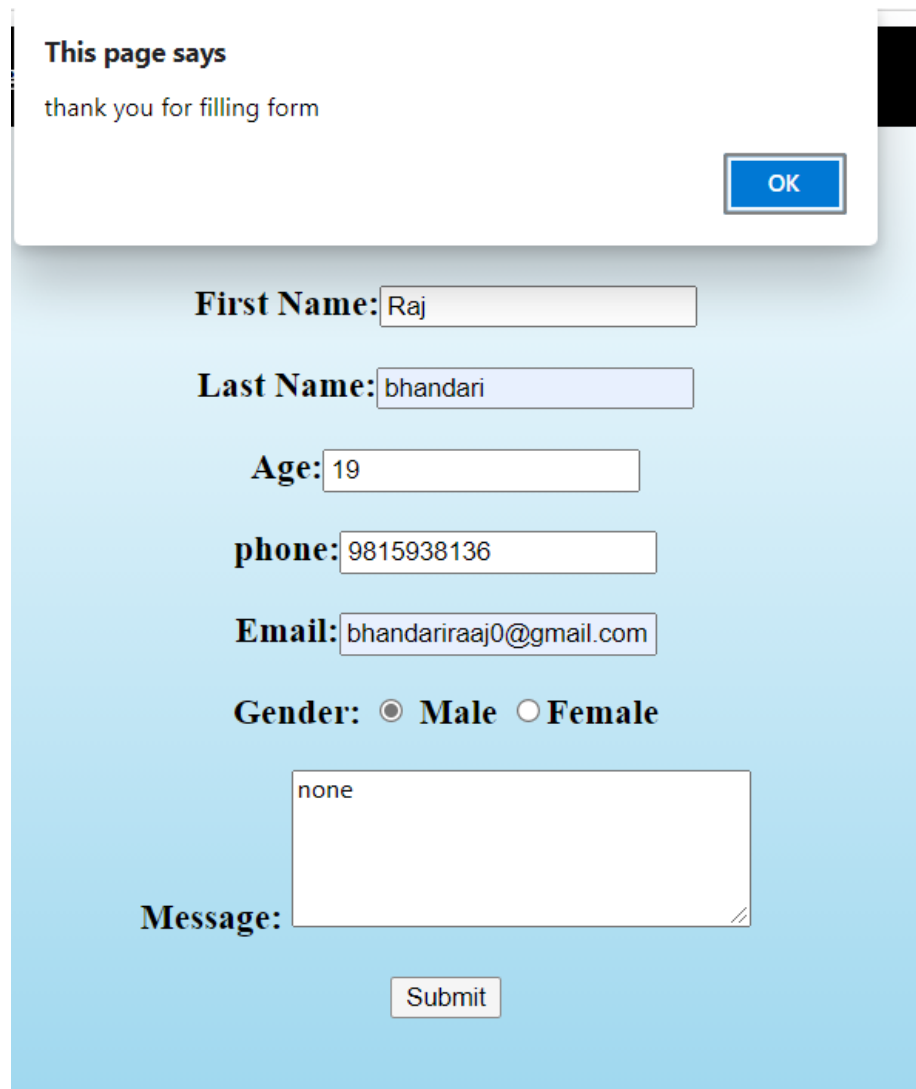| Test No.	3
Action	In the page contact.html, click on the submit button.
Expected output	The selected button popup the message if the form is empty or submitted.
Actual output	The message was displayed
Test Result	The test was successful.

Table 3: Table of test 3

Figure 16: Test 3 Figure 1

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This page says

thank you for filling form

OK

First Name: Raj

Last Name: bhandari

Age: 19

phone: 9815938136

Email: bhandariraaj0@gmail.com

Gender: ⦿ Male ○ Female

Message:

Submit

Figure 17: Test 3 figure 2

3.4. Testing 4

Test No.	4
Action	In the page home.html, place pointer on the navigation bar.
Expected output	The pointed buttons will hover by changing background colour.
Actual output	The background colour was displayed.
Test Result	The test was successful.

Table 4: Table of Test 4

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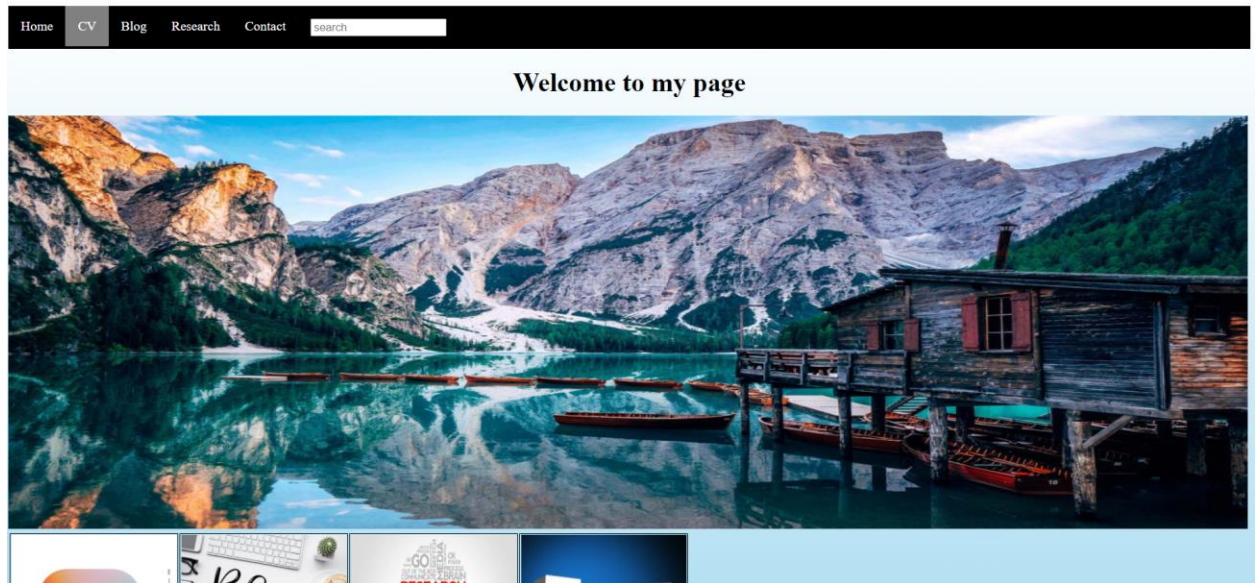
Figure 18: Test 4 figure 1

4. Conclusion

Finally, the assignment was done despite numerous challenges and blunders, all of which were overcome. A lot of the references came from YouTube channels and videos. Many websites were also used as sources of information. It was easy to complete the provided project on time thanks to group discussion and teacher assistance.

During my investigation for this assignment, I learned more about web technologies, their applications, and other topics. I learned more about html, CSS, and javascript, which improved my web development skills. This project has equipped me with the skills necessary to create a website for a business or individual. Other languages, such as php, which is also used for web development, became more familiar to me. This website has a total of six pages, with five major pages and one subsidiary page. This is my personal website, which anyone who needs a web developer can visit and contact me through. To summarize, this task was done on time with the assistance of numerous videos and websites, as well as the development of my talents.

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