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(इस्लिंग्टन कॉलेज)

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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:

This semester's final project is a website that explains the impact of technology. We had to create and develop a website to describe the impact of technology in our daily life as part of the given coursework. The site that had to be created must have at least five pages and a blog page to show how technology had impacted our daily life as well as a research page where you have to show our research while creating our website. To complete the assigned coursework, HTML, CSS, and JavaScript were necessary. Because I had no better information on html5, CSS, or JavaScript, this was a large testing challenge for me. This task was handed out to us exclusively. Before the end of the 12th week, the coursework must be completed.

The primary goal of the coursework assigned to us was to create a website that explained the impact of technology in our daily life as well as to create a portfolio. The goal of this project was to help improve a person's website development skills while also helping in understanding the fundamentals of HTML, CSS and JS more readily. A Home page was required for this site. The web page also included several pages, such as CV, which introduced the curriculum vitae. The Web page also had a blog page that showed how the latest technological advancement had impacted our daily life. For any inquiries or questions, the site also contained a contact us area where providers could hear about the clients' feedback. The research section compares the features utilized by me on my website with those website for research reasons.

### Tools Used:

The elements used while creating this website are explained below:

#### a. HTML:

HTML is a markup language used to define the layout and attributes of a World Wide Web (WWW) document and to create hyperlinks between Webpages. HTML is the basic building block of website design. It is a high-level markup language as well as a subset of SGML (Standard Generalized Markup Language). (Hayes, 2020)

HTML is a short form of Hypertext Markup Language, which means:

- i. Hypertext is simply text with advanced features like as formatting, graphics, multimedia, and links to other documents.
- ii. Markup Language is a way of inserting layout information into documents. HTML is a language for describing page layout and hyperlinks. It allows the insertion of pictures and other objects that may be used to develop interactive forms. HTML tags or elements are used to describe HTML documents.

Tags are used to create HTML code. HTML tags are predefined and case-insensitive and are written inside the angular brackets (< and >), and the text between these brackets is referred to as an element. Elements are classified into two types: container elements and empty elements. Container tags are those that contain both 'on' and 'off' tags and those tag that contain 'on' tag only is known as Empty tag. The basic tag use in the HTML document are <Html>, <Head>, <Title> and <Body>. Some other tags that I used my by website are <Meta>, <table>, <form>, <div>, <image> and so on. Now, the below diagram shows the sample of html code with a basic html tag.

Sample of html tag used

```
1  <!DOCTYPE html>
2  <html lang="en">
3  |  <head>
4  |  |  <meta charset="UTF-8" />
5  |  |  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6  |  |  <meta name="description" content="" />
7  |  |  <link rel="stylesheet" type="text/css" href="styles.css" />
8  |  |  <title>Real Devs Take Shortcuts</title>
9  |  </head>
10 |  <body>
11 |  |  <header></header>
12 |  |  <main></main>
13 |  |  <footer></footer>
14 |  |  <script src="scripts.js"></script>
15 |  </body>
16 </html>
```

Figure 1: Sample of HTML tags

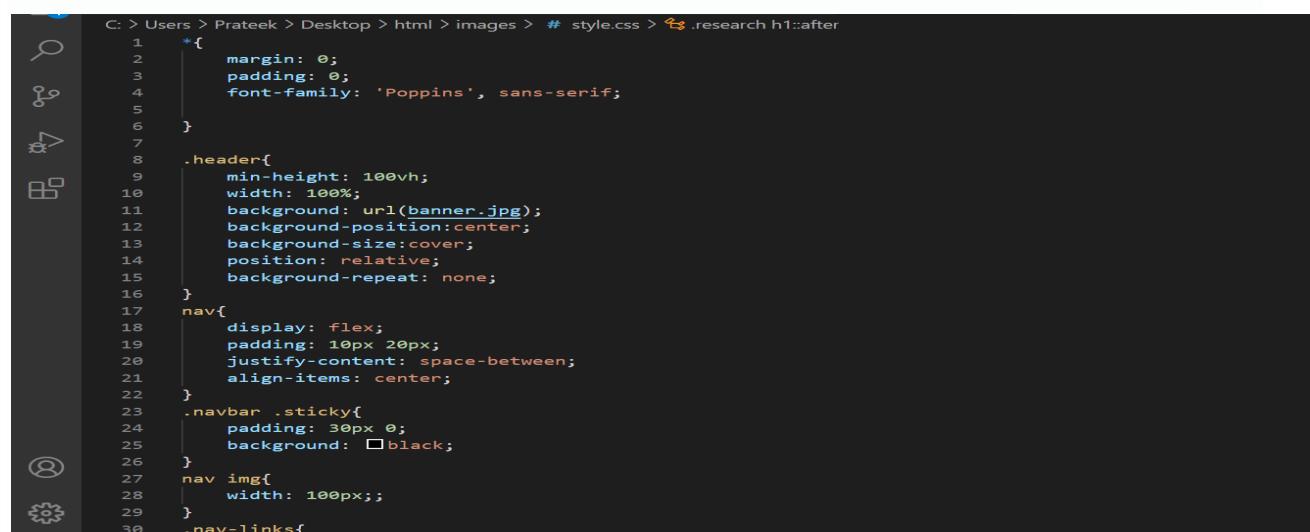
### b. CSS

CSS (Cascading Style Sheets) is a simple technique for adding style (for example, fonts, colors, and spacing) to Web documents. It controls the background color, font-size, font-family, color, and other features of web page elements. CSS is classified into three types: inline CSS, internal or embedded CSS, and external CSS. Inline CSS has the highest priority, followed by Internal/Embedded CSS, and lastly External CSS, which has the lowest priority. Multiple style sheets can be defined on one page. CSS is simple to learn and understand, but it gives you a lot of power over how an HTML document displays. . Most commonly, CSS is combined with the markup languages HTML or XHTML. (techTerm, 2021)

Some of the advantage of CSS are:

- Easier to maintain and update
- Greater accuracy in design
- More formatting options
- Lightweight code
- Faster download times

Sample of CSS used:



```

C: > Users > Prateek > Desktop > html > images > # style.css > ↵ .research h1::after
1   *{
2     margin: 0;
3     padding: 0;
4     font-family: 'Poppins', sans-serif;
5   }
6
7
8   .header{
9     min-height: 100vh;
10    width: 100%;
11    background: url(banner.jpg);
12    background-position:center;
13    background-size:cover;
14    position: relative;
15    background-repeat: none;
16  }
17   nav{
18     display: flex;
19     padding: 10px 20px;
20     justify-content: space-between;
21     align-items: center;
22   }
23   .navbar .sticky{
24     padding: 30px 0;
25     background: black;
26   }
27   nav img{
28     width: 100px;;
29   }
30   .nav-links{

```

Figure 2: Sample of CSS

### c. JAVASCRIPT

JavaScript is a dynamic programming language for computing. It is lightweight and is most widely used as a part of web pages, where its implementations allow client-side script to interact with the user and create dynamic webpages. It is an object-oriented programming language that can be understood easily.

JavaScript was originally known as LiveScript, but Netscape changed its name to JavaScript, possibly due to the excitement caused by Java. JavaScript first appeared in Netscape 2.0 in 1995 as LiveScript. The language's general-purpose core is included in Netscape, Internet Explorer, and other web browsers. (Network, 2020)

The benefits of using JavaScript are as follows:

- i. You can verify user input before sending the page to the server, which minimizes server interaction.
- ii. Interactivity can be increased by creating interfaces that interact when the user hovers over them with a mouse or activates them with the keyboard.
- iii. Users receive immediate feedback; they do not have to wait for a page reload to see if they have failed to input something.

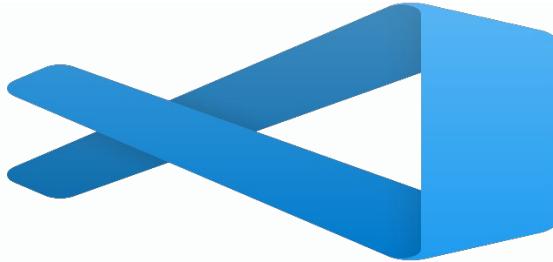
Sample of JavaScript used:

```
165
166
167      <!--JAVASCRIPT FOR TOGGLE MENU-->
168
169      <script>
170          var navlinks = documents.getElementById("navLinks");
171
172          function showMenu(){
173              navLinks.style.right ="0";
174          }
175          function hideMenu(){
176              navLinks.style.right ="-200px";
177      </script>
```

Figure 3 Sample of Javascript

## 2. Discussion and analysis

### 2.1 Visual Studio Code



*Figure 4: Icon of Visual Studio Code*

Visual Studio Code is a lightweight and powerful source code editor that runs on your desktop and is available for Windows, macOS, and Linux. It has built-in support for JavaScript, TypeScript, and Node.js, as well as a large ecosystem of extensions for new languages and runtimes (like C++, C#, Java, Python, PHP, and Go) (such as .NET and Unity). Some of the uses of Visual Studio Code are: (Microsoft, 2021)

- Visual Studio Code is available for macOS, Linux, and Windows, so we can get began immediately.
- Visual Studio Code includes basic support for most common programming languages
- VS Code comes with improved built-in support for Node.js programming, including JavaScript and TypeScript, and is supported by the same underlying technologies as Visual Studio.

#### 2.1. BALSAMIQ

Balsamiq Cloud is a web-based user interface design tool for developing wireframes (sometimes called mockups or low-fidelity prototypes). It can be used to make visual drawings of your idea or concept for an application or website, allowing discussion and understanding before any code is developed. The finalized wireframes may be used for user testing, clarifying your vision, gathering support from users, and obtaining approval to start development. (Anon., 2021)

Some of the uses of Balsamiq are as given below:

- i. We can develop layouts to obtain a general idea of how something will look.
- ii. To get your ideas on paper as quickly as possible.
- iii. Keeps us focused on the overall perspective rather than overthinking design details.

Interface of Balsamiq is shown below:

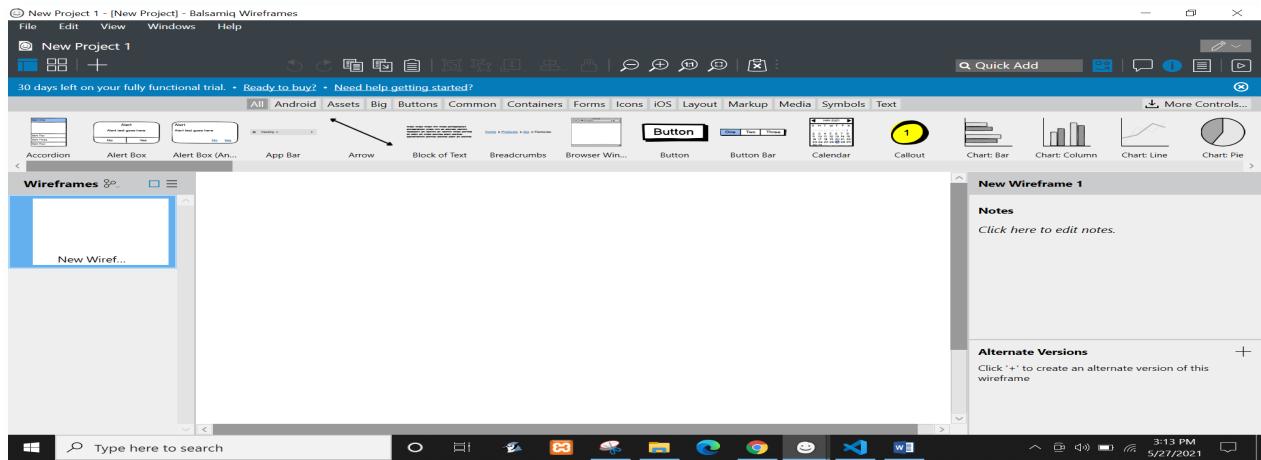


Figure 5: Interface of Balsamiq



### 3. Website Development

#### 3.1 Home Page

The home page is just a simple introduction to my website, complete with a navbar, logo, footer, an image, and a small profile. The picture was inserted using the img element, and the paragraph was created with the p element. I used CSS code (hover) in the navbar to change the color of the nav element as we move our mouse over it. I've also linked the navbar to my other pages, making it easier to browse across the many pages. To create a menu that shows during browser resolution, I used javascript with a toggle effect (850px)

##### i. Wireframe of the Home page:

This is the first page of the website that the customer interacts when they visits it. This webpage's wireframe is given below.

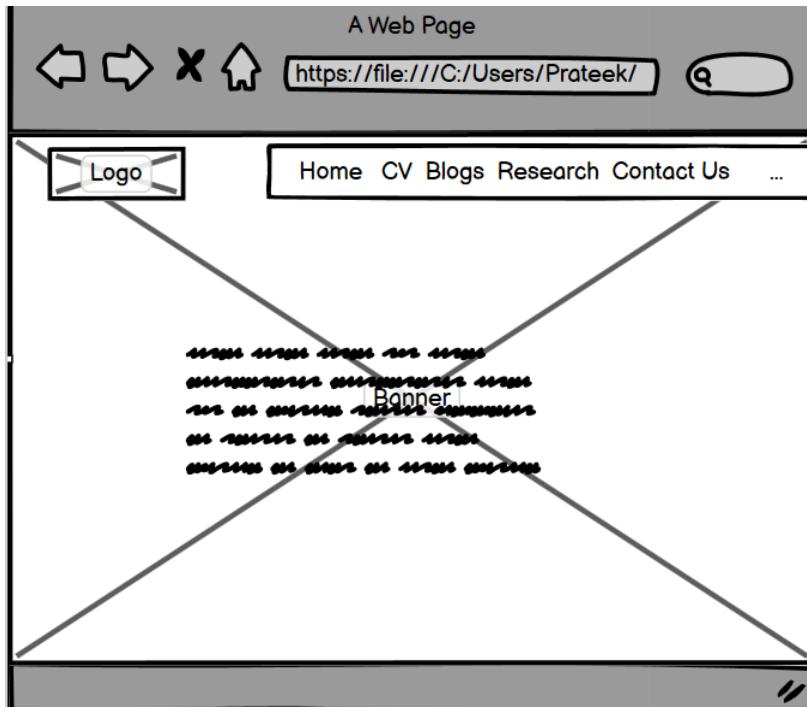
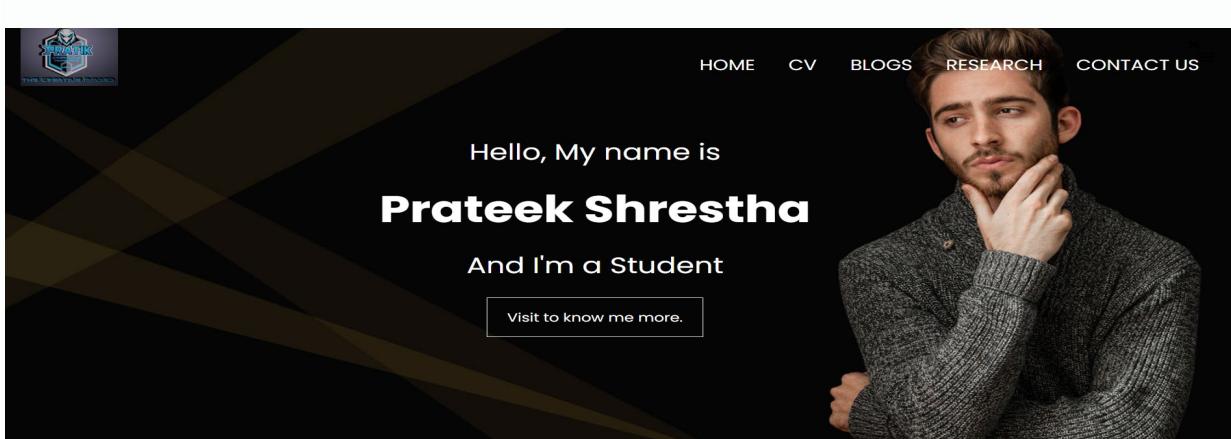
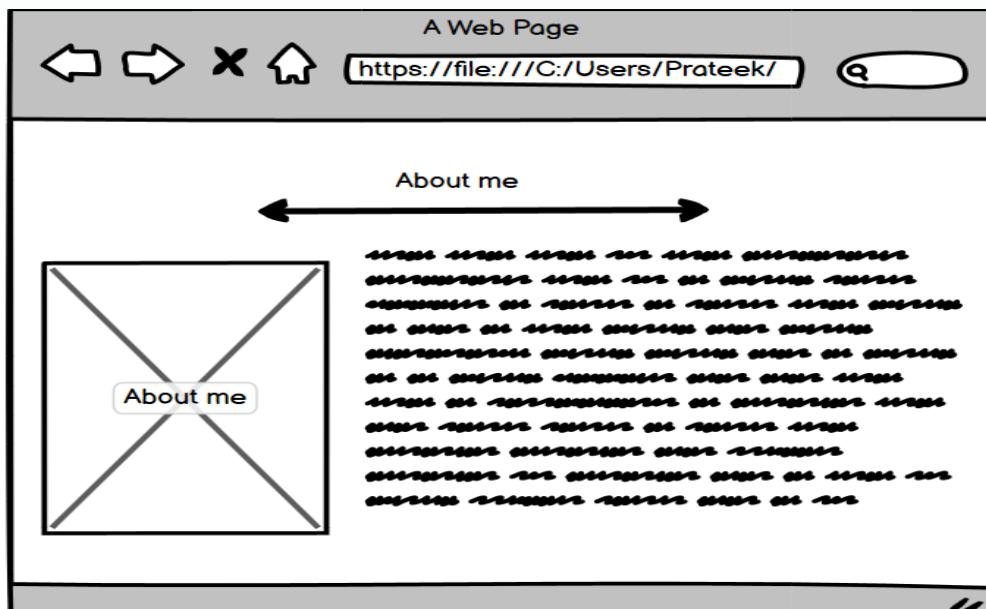


Figure 6: Wireframe of Home page

**ii. Homepage UI:***Figure 7: Image of Home page***3.2 Curriculum Vitae:**

This site is about curriculum vitae, and it includes information about the developer. The following is the wireframe:

**i. Wireframe of Curriculum Vitae:***Figure 8: Wireframe of Curriculum Vitae*

**ii. CV UI:**

The screenshot shows a section of a CV titled "About Me". At the top left is a profile picture of a smiling man with a beard, wearing a red sweater and headphones, standing against a blue brick wall. Below the picture is the title "About Me" in a large, bold, black font. Underneath the title is a horizontal line with the text "Who am I" in red. To the right of the line is a paragraph of text: "Hello, my name is Pratik Shrestha, and I work as a programmer and freelancer. At Islington College, I am studying a bachelor's degree in computer. I've done a variety of freelance projects based on web design to programming to meet the needs of my clients. My skill level in web development and programming language is shown below." Below the text is a horizontal bar chart showing skill levels: HTML (80%), CSS (65%), JAVASCRIPT (55%), and Java (70%).

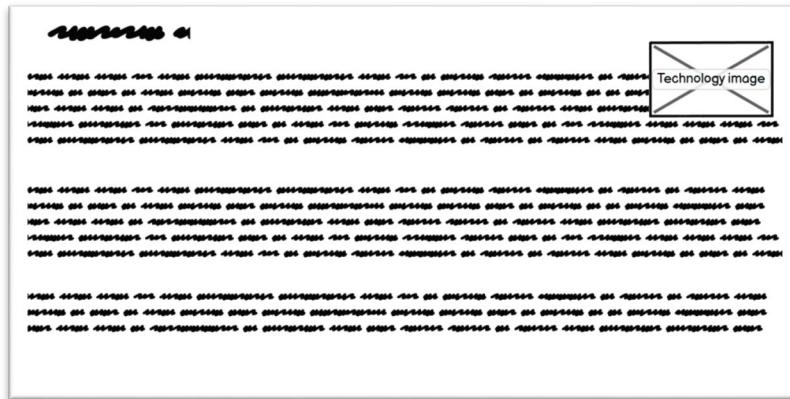
*Figure 9: Image of CV*

**3.3 Blog**

Blogs webpage shows the impact of technology in our Daily Life

**i. Wireframe of Blog:**

- . The wireframe is shown below:



*Figure 10: Wireframe of Blogs*

## ii. Blog Page UI:

The blog page is shown below:

**Technology and its impact in daily life**

By Prateek Shrestha | Published May 25, 2021

**Introduction**

Technology can be defined as the techniques, skills that we possess in our daily life. After the innovation and scientific development our life has become very convenient, in every sector and daily life activities technology is being used nowadays. Mostly the technological gadgets, tools are used in work portfolio. It has forwarded human life to the next dimension. In the modern era scientists and developers are doing research in more advanced technology in compare to the era of past time. Additionally, technology is the application of mathematics, science, and the arts for the benefit of life as it is known. Some of the technology that makes our life more valuable are Internet, Telecommunications, factory machineries, technological elements including smart phones, tablets, game consoles, TVs nowadays. Some of the areas where Technology has high influence can be described here

**Communication Sector**

Technology has the biggest impact is in the realm of communication. Nowadays technology has made possible to connect one person from one corner of the world to another person from the another corner of the world. Telephone communication is only successful through the technological developments and research. Internet has made possible to communicate through emails, Facebook, Viber, skype which made possible to have video calls from anywhere. For most of the last century, professional communication involved letter writing, faxing, or spending hours on the telephone are the examples of modern Technology. In student life as well as professional life, communication through different platforms are used

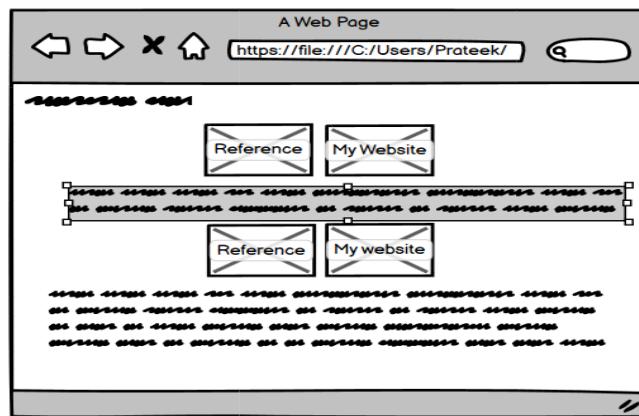
**Figure 11: Image of Blog section**

## 3.4. Research:

The research webpage shows the site I have investigated to get support about this site.

### i. Wireframe of Research:

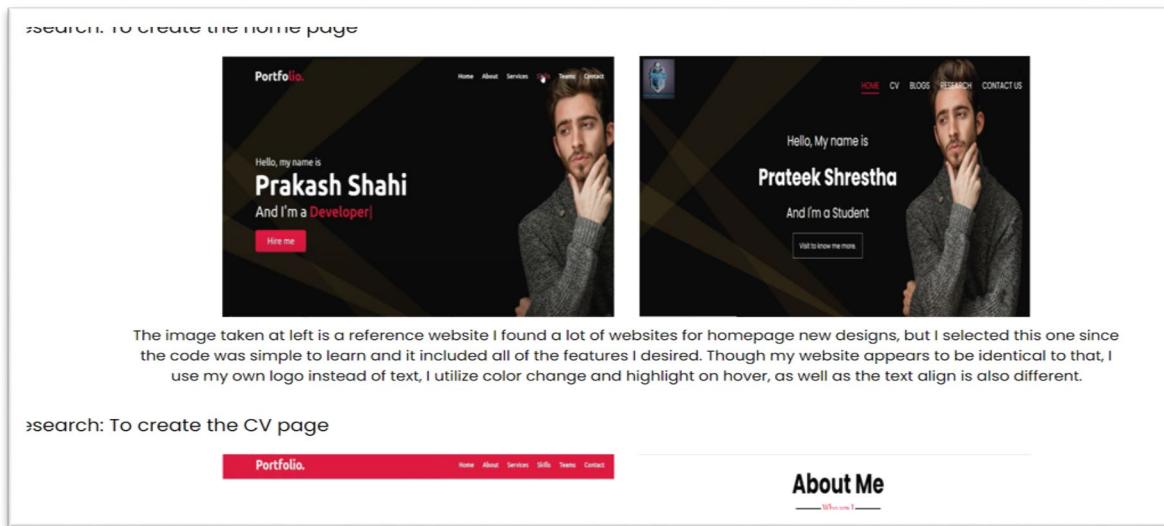
The wireframe is shown below:



**Figure 12: Wireframe of Research**

## ii. Research UI

The research page is shown below:



search: To create the CV page

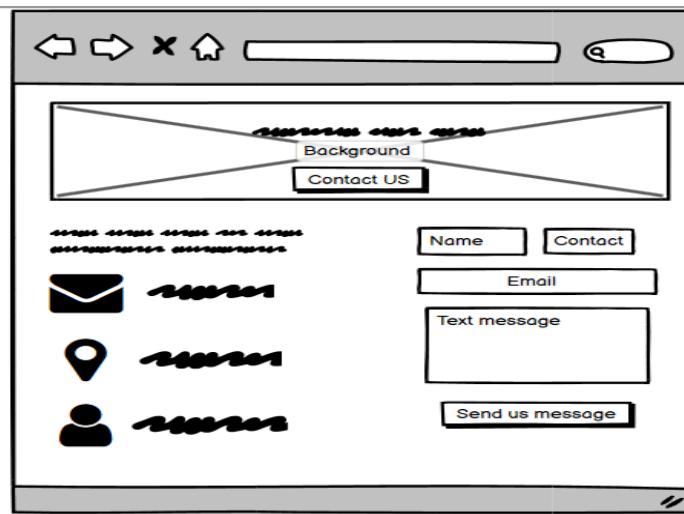


*Figure 13: Image of Research Section*

## 3.5 Contact:

The page has a template where the user can fill the name and email their feedback to us, as well as some symbols that display our details. The wireframe is shown below:

### i. Wireframe of Contact:



*Figure 14: Wireframe of Contact*

## ii. Contact UI

The image of Contact is shown below:

**CONTACT ME**

[Get in Touch](#)

**Get in touch**

if you have any question fill in the content form, and we will answer you shortly. if you are living nearby, come visit Islington at one of our comfortable office

- 👤 Name  
Prateek Shrestha
- 📍 Address  
Bhratpur-10, Chitwan
- ✉️ Email  
Prateekshrestha1649@gmail.com

**Send us Message**

Name  Contact   
Email   
Enter your message

Send Message

*Figure 15: Image of Contact*

## 4. TESTING

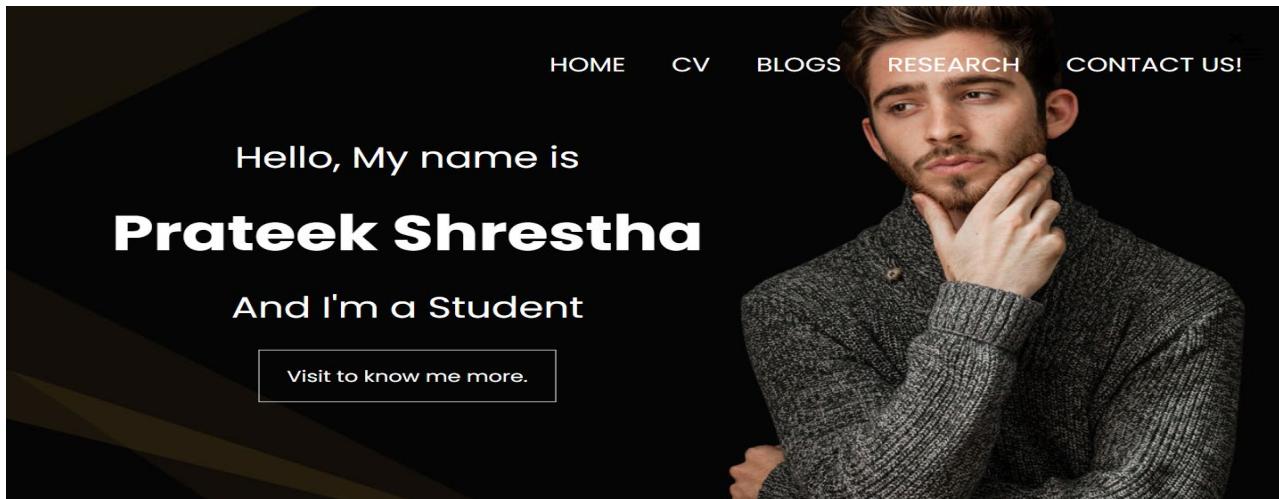
### 4.1 Test 1

The test below is to check the hover effect (used to select elements when you mouse over them) ÷

Objective	To select the element when the mouse is over it.
Action	Hover effect was add on the button using CSS.
Expected Result	To change the background color and color of the button when the mouse is over it.
Actual Result	The background color change to white when the mouse is over it.
Conclusion	The test was successful to change the element when mouse is over it.

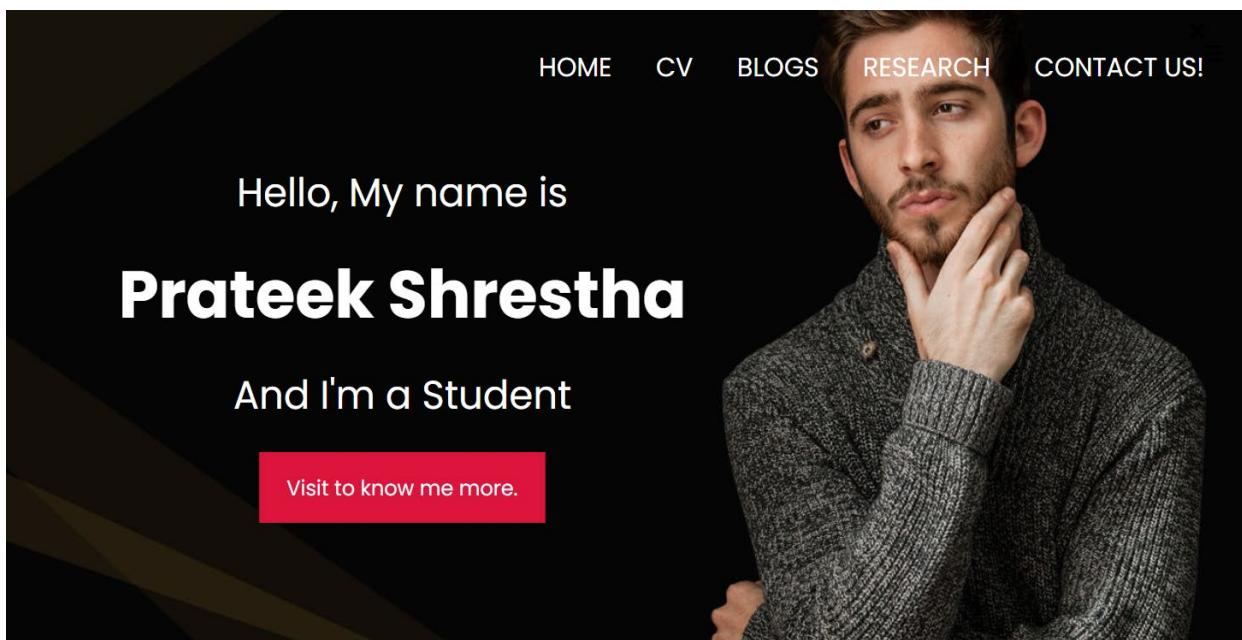
*Table 1: Test Hover effect*

I. Before Implementation of Hover Effect



*Figure 16: Before implementing Hover effect*

II. After the implementation of hover Effect and the mouse is placed over it



*Figure 17: Implementation of Hover Effect*

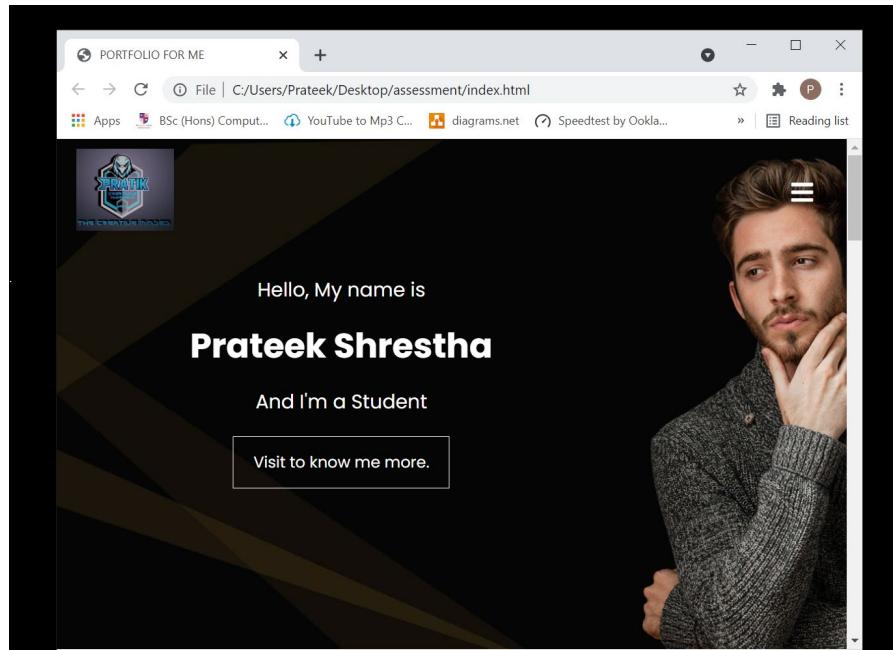
## 4.2 Test 2

To check the toggle effect of the menu bar.

Objective	To test the toggle effect of the menu bar.
Action	At first, home page was open and the resolution of the screen was adjusted below 850px
Expected Result	On clicking menu the hide menu button should appear and navbar appears on block as well as on clicking hide menu bar the navbar should disappear.
Actual Result	On clicking menu the hide menu button was appears and navbar was appear in block as well as on clicking hidden menu bar the navbar was disappear.
Conclusion	The test was successful to run toggle effect.

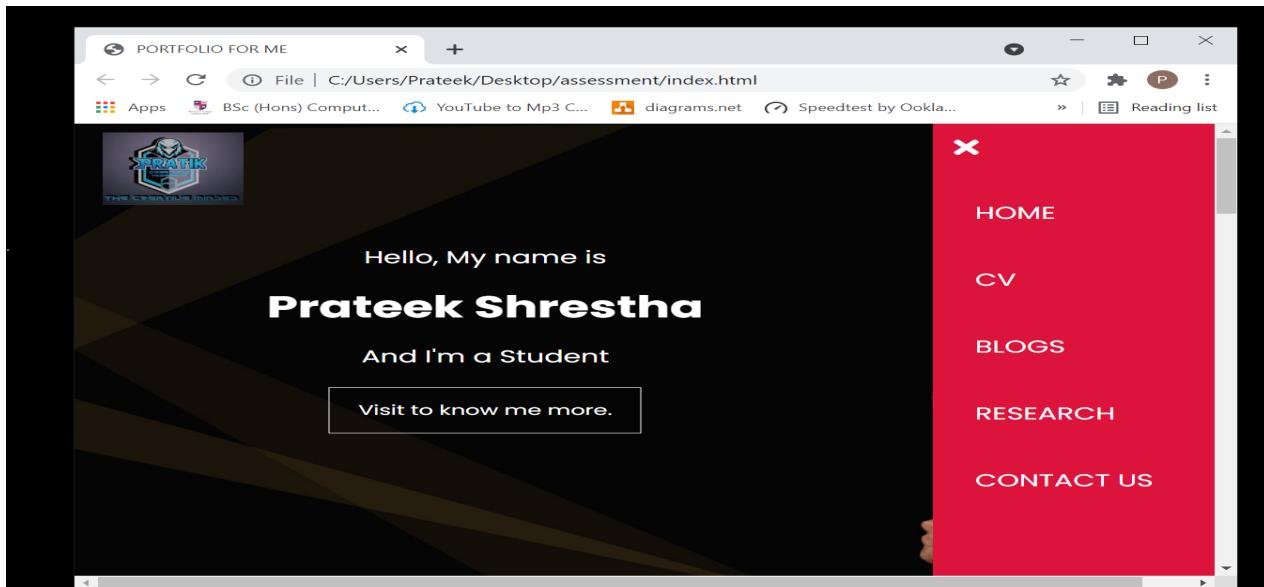
*Table 2: Test of Toggle effect*

### I. Demonstration of Home page in small Resolution for toggle effect



*Figure 18: Toggle effect (Menu icon)*

## II. On clicking menu icon



**Figure 19: Toggle effect (Hide Menu)**

### 4.3 Test 3

To check the link of the webpage

Objective	To test the linkage of the webpage.
Action	At first, footer was open and Facebook icon was clicked
Expected Result	The Profile info of Facebook will display as a webpage.
Actual Result	Facebook profile webpage was displayed as a webpage.
Conclusion	The test was successful to link the footer icon of the webpage.

**Table 3: Test linkage of webpage**

i. linkage of footer section of icons:

content form, and we will answer you shortly. if you are living nearby, come visit Islington at one of our comfortable office

- **Name**  
Prateek Shrestha
- **Address**  
Bhaktapur-10,Chitwan
- **Email**  
Prateekshrestha1649@gmail.com

Email  
Enter your message

Send Message

Prateek Shrestha

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*Figure 20: footer section linkage*

The linked website is shown below:

facebook

Log In

Prateek Shrestha

Friends Photos Videos

*Figure 21: linkage of footer icon*

#### 4.4 Test 4

To check the responsive feature of website:

Objective	To test the responsive feature of website(CV)
Action	At first, the screen resolution of browser is decrease to 850px (CV)
Expected Result	The flex design of the webpage change to column and align item will appear at the center
Actual Result	Flex of the CSS changed to column flex and the align item appears center of the page
Conclusion	The test was successful to create a responsive webs

Table 4: Test to check a responsive Website

##### i. Check the responsive of CV

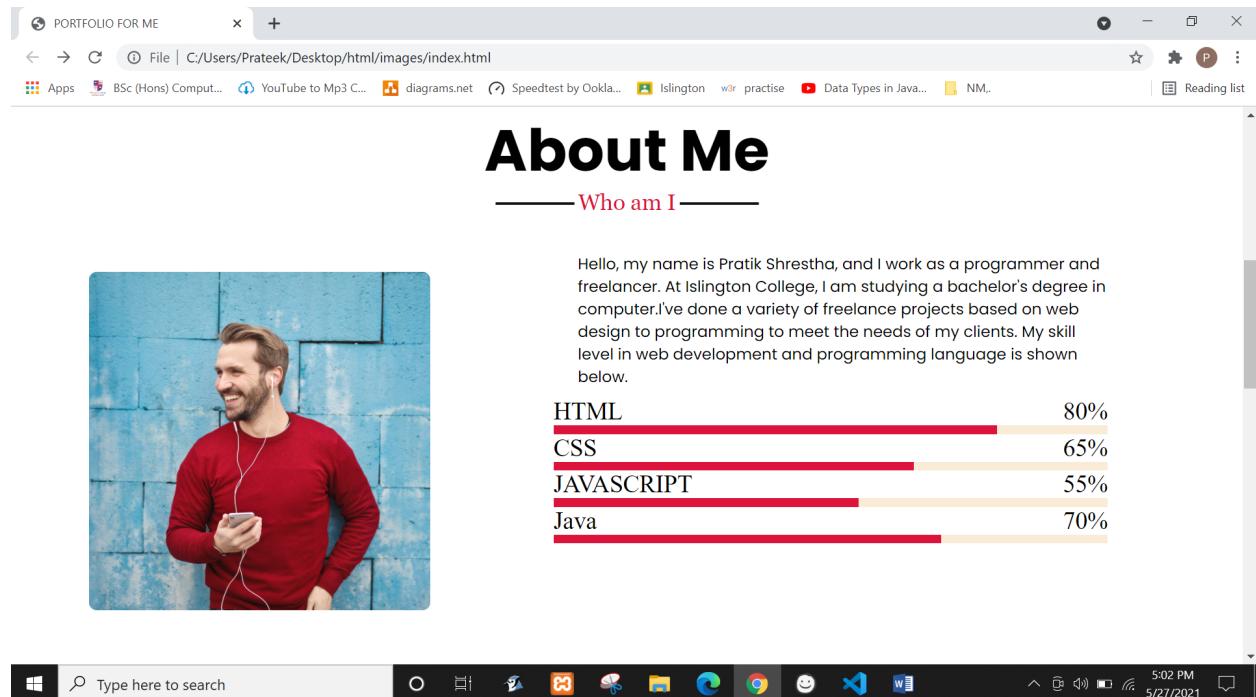
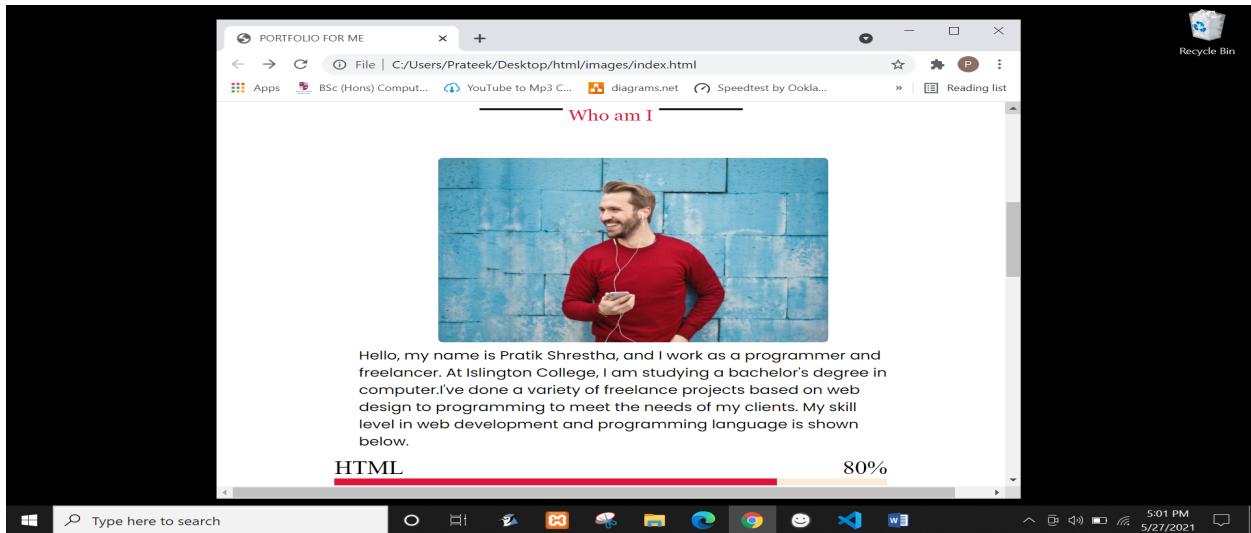


Figure 22: Image of testing CV at full resolution

- ii. The responsive website at small resolution is shown below:



**Figure 23: Image of CV at small resolution**

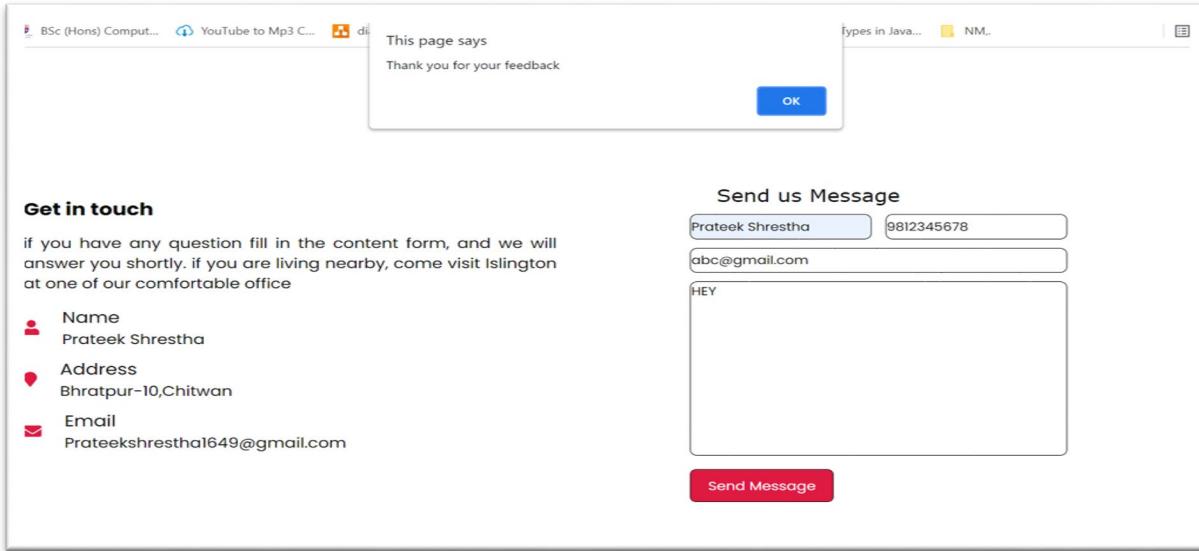
#### 4.5 Test 5

To check the alert box

Objective	To test the alert box
Action	At first, the alert JS is added on Contact button then the button clicked
Expected Result	A alert box will appear alert message when the form is empty as well as when it is filled with different instruction
Actual Result	A alert box is appeared with a message(Send)
Conclusion	The test was successful to check alert box.

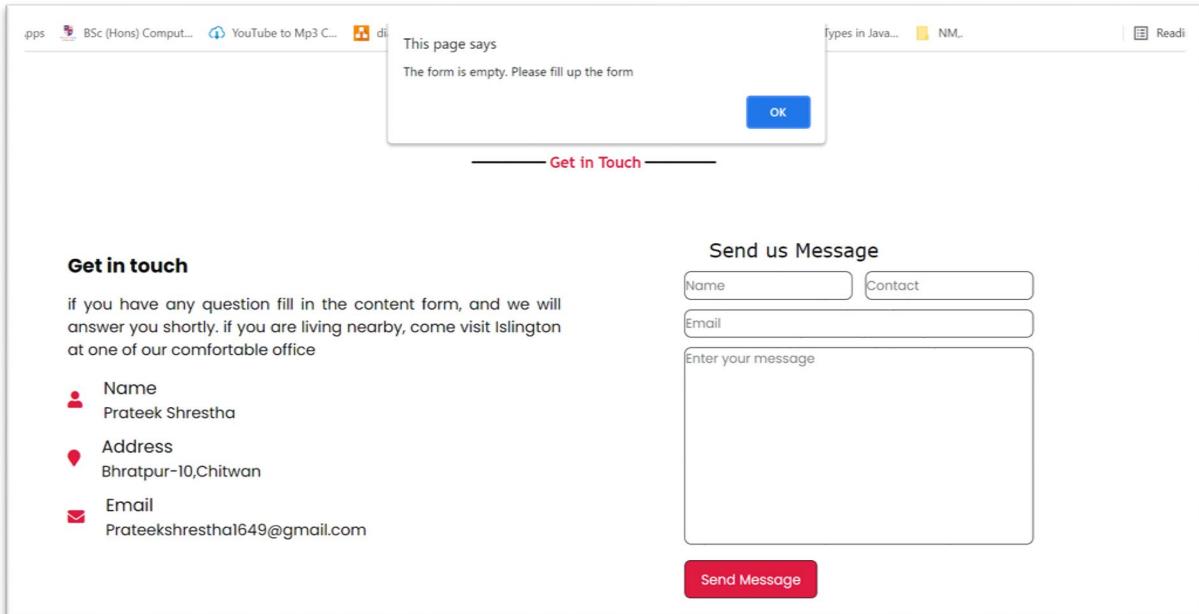
**Table 5 Test the alert box**

i. To Check the alert message when the form is filled:



**Figure 24: Alert box (filled form)**

ii. To check the alert message when the form is empty:



**Figure 25: Alert Box (Empty form)**

## 5. CONCLUSION:

Finally, after a lot of hard dedication and effort, this course work is completed. Completing this course work on creating a website with five different website pages was a great experience. Despite the fact that this coursework is tough and numerous obstacles occurred, completing it was a lot of fun because it was my first time creating a website. Initially, I believed that this course work was too difficult for me to complete, and that I would not be able to complete it by the deadline. I was a victim of the pandemic Corona Virus and tested positive twice. Though I was not feeling good, my dedication to my future encouraged me to complete my assessment throughout my difficult times. The coding portion was tricky since it was my first experience with a web application, but it was also a lot of fun to do. It would not have been possible to complete this curriculum without consistent hard work and effort. Our module and tutorial educators shown their extra effort and thought about this project, which was extremely difficult for me to complete. Furthermore, I have a large list of sites, books, and journals that provide me with a lot of information on web structure on the front or client end-server. Finally, this assignment finished on time instantly and easily decisively.

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