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1. Introduction

1.1 Portfolio Website

A portfolio website is an addition of specific content to a freelancer's or company's resume. It provides an easy way for organizing and presenting the kind of work and facilities provided by the freelancer or company. This helps the potential clients to view the work of the website owner while also allowing them to expand their skills and services. The main goal of a portfolio website is to provide a medium for the service provider to attract more clients for their freelancing, agency or employment at a company. (ThemeTrust, 2018)

1.2 Introduction to the project

The project is about creating a portfolio website with various pages using tools like HTML, CSS and JavaScript. The pages included in the website are the homepage, CV, blogs, research and contact page with proper design and navigation bar to allow the user to fully navigate through all the sections of the webpage. Each page has specific content related to their title. The home page contains the contents introducing the website and providing navigational tools to visit other pages in the website. The CV page contains all the experiences, qualifications, skills, etc. The blog page contains the articles regarding technology and what impact it has created. The research page contains the reference materials used to create the website and comparison of the different elements. Lastly, the contact page contains a form for the visitors if they wish to contact the website owner.

1.3 Goals and Objectives

- To understand the basic internet technologies and the impact that internet has made in the lives of people.
- To understand the structure of the web site and simple navigation principles.
- To demonstrate competency in designing a website with appropriate tools and technologies.
- To show the capability of applying scripting languages to web pages.
- To display awareness in website design considerations regarding usability and accessibility.

1.4 Project Overview

The project was created using various elements present in a basic HTML document like title tags, meta tags, table, div, image, form and many other tags in a well-structured format. It also included the use of inline, internal and external CSS to format the fonts, dimensions, colours, divisions, etc. and create various styles to make the website visually appealing. Also, JavaScript was also be used to dynamically change the content of the website and perform other tasks such as form validation. All the functions in JavaScript and logical divisions/separations in HTML documents were explained with comments. Lastly, all the HTML pages, CSS, JavaScript and images were properly structured with proper naming convention and stored in proper folder structure.

1.5 Conclusion

A portfolio was designed and developed in the form of a website. A static website was created with various web pages using HTML 5, CSS 3 and JavaScript. Various pages present in the website are home, CV, blogs, research and contact. Each of which have specific content related to their title. The content was stored using various HTML tags, the design was enhanced using CSS to make it attractive and various functions were implemented using JavaScript. All of the codes were well structured with proper comments, naming convention and stored in proper folders.

2. Discussion and Analysis

2.1 Selected Text Editor

Sublime Text 3:

A text editor is a word processing program that is used for typing and editing text. (Christensson, 2006) Sublime Text 3 is a refined text editor widely used by developers. It includes various features such as syntax highlighting, auto indentation, file type recognition, etc. which makes it easy to work with. (Tutorialspoint, 2021) Sublime Text 3 has played a significant role in the creation of this project. This program has various features which helps in keeping track of changes made. It also provides other features like the ability to solve linker errors, colour codes different types of syntax, makes easy to locate files and folders, etc. Because of all these features, this text editor has been very useful in creating this project.

2.2 Tools used while developing wireframe

Balsamiq Wireframes:

A wireframe is a blueprint or pictorial illustration that is used by designers to think and communicate about the structure of the application or website to be built. It helps the designers to save time by providing a platform to develop an interface easily with the help of pre-built design elements like shapes, images, etc. (Guilizzoni, 2021)

Balsamiq Wireframes is a UI wireframing tool which reproduces the experience of sketching on a notepad or whiteboard, using a computer. It helps the users to prioritize on structure and content of the UI and leave other process to decide for later like colours or other details. (Balsamiq, 2021)

Balsamiq has been very useful in developing the wireframes in this project. It allowed to easily create a design an interface for the website with its various built-in features for shapes, text area, navigation bar, image, etc. The use of this tool has contributed significantly to minimize the time and effort to design the website.

2.3 Page Description

Home page:

The home page contains various elements like the title, navigation bar and social media page redirect links to navigate to different pages in the header section. The main content in the page contains an image with a welcome message to make the website look attractive. Below the image there is a short description for the various other pages in the website each described shortly in box compartments with a button to follow up to the content in their respective pages. Lastly, in the footer there is also a navigation bar, social media page redirect icons and a copyright notice.

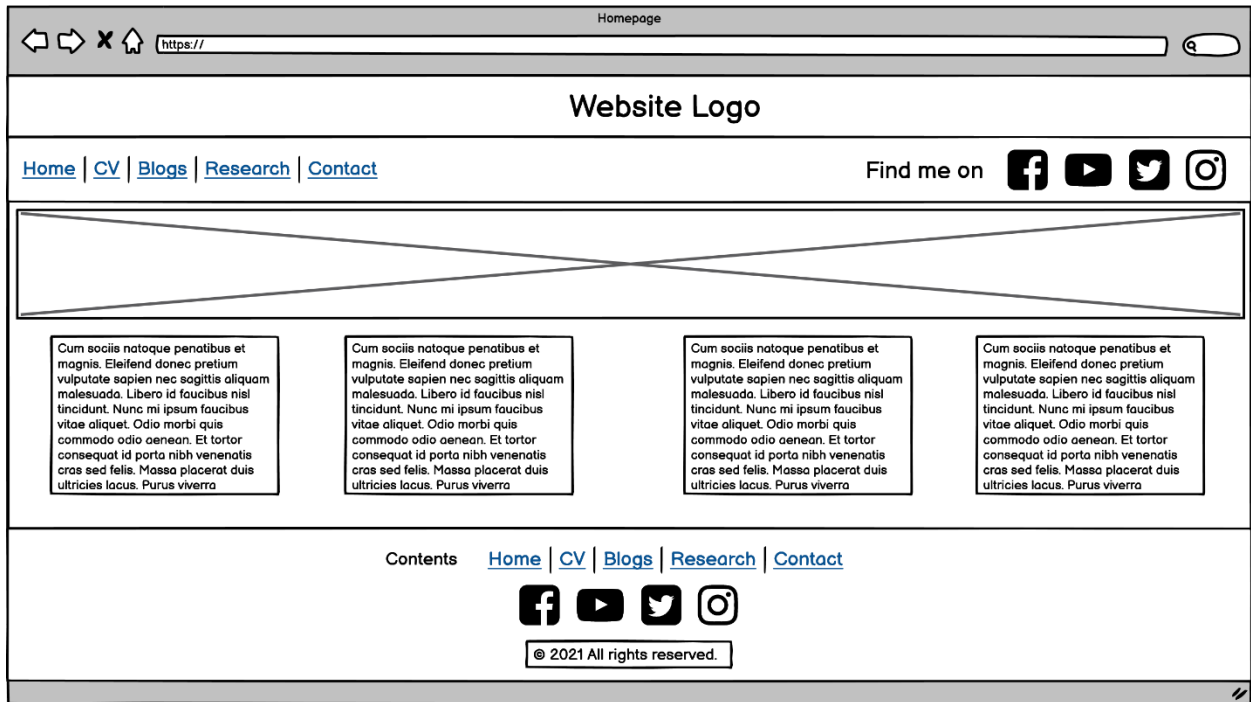


Figure 1: Screenshot for wireframe of Home page

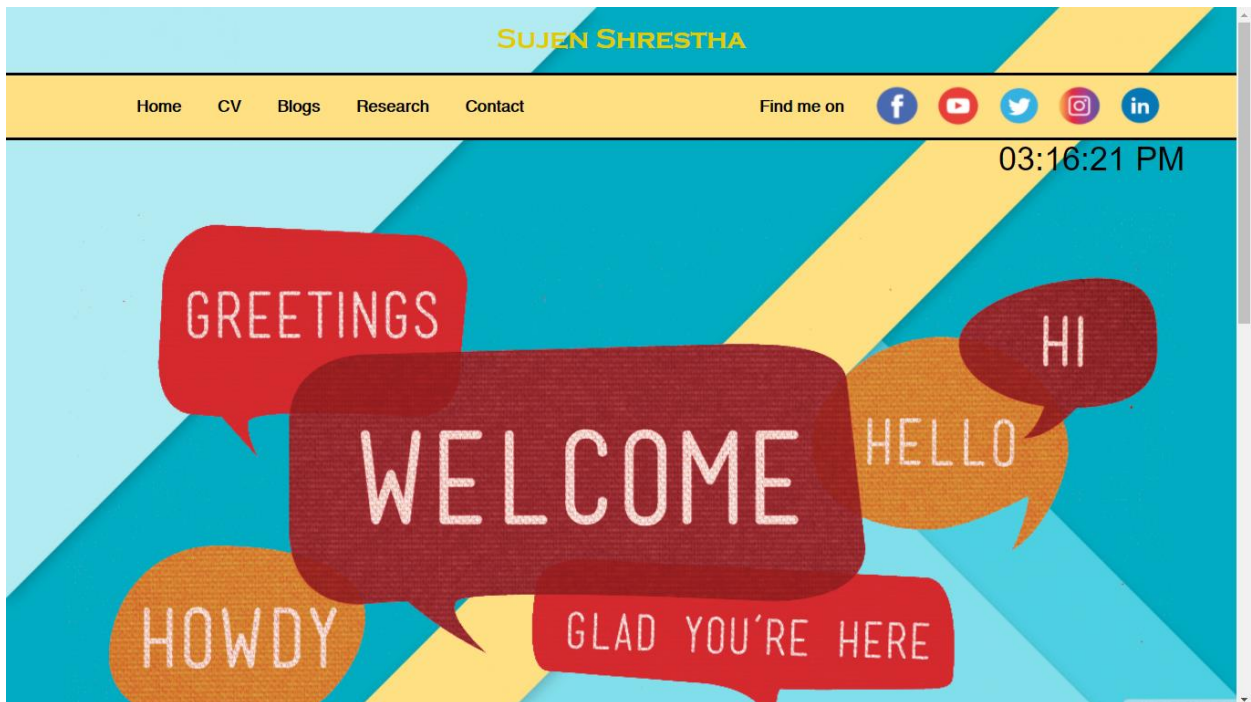


Figure 2: Screenshot of Home page

CV:

The blogs page contains various elements like the title, navigation bar and social media page redirect links to navigate to different pages in the header section. The main content contains of the title heading and two boxes. The box on the left side is circular and contains an image. The box on the right side is rectangular and contains the CV. Lastly, in the footer there is also a navigation bar, social media page redirect icons and a copyright notice.

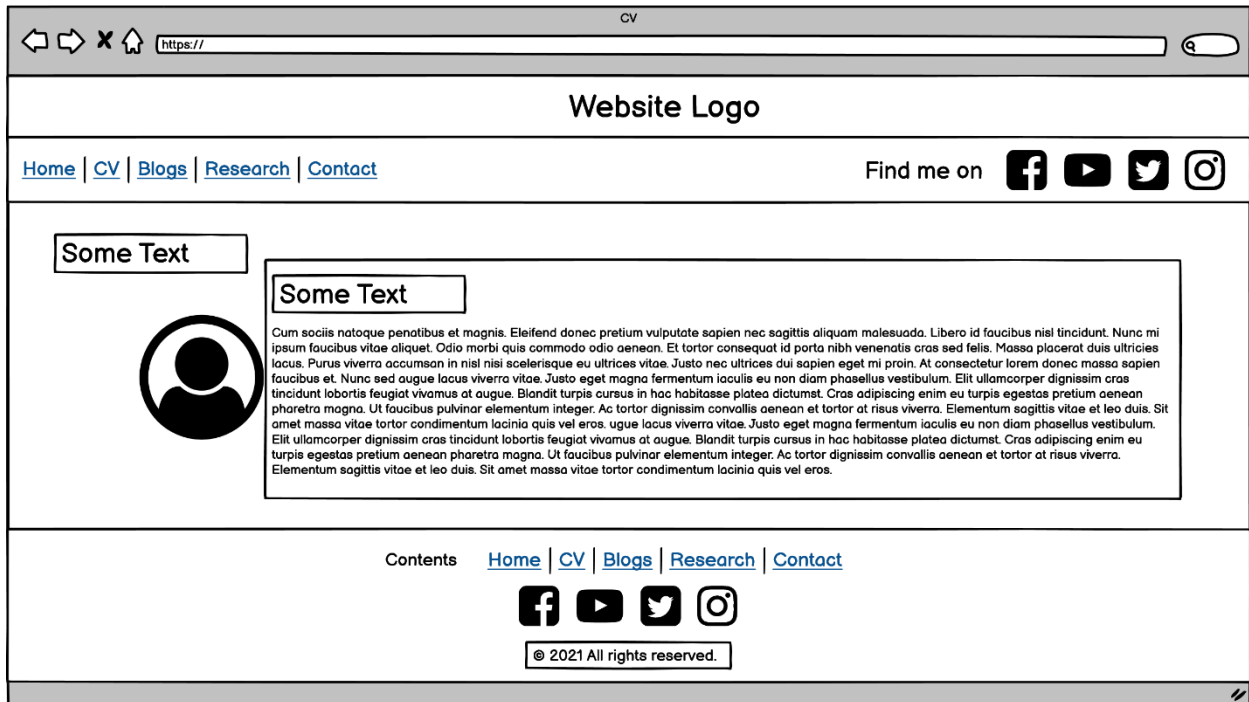


Figure 3: Screenshot of wireframe of CV page

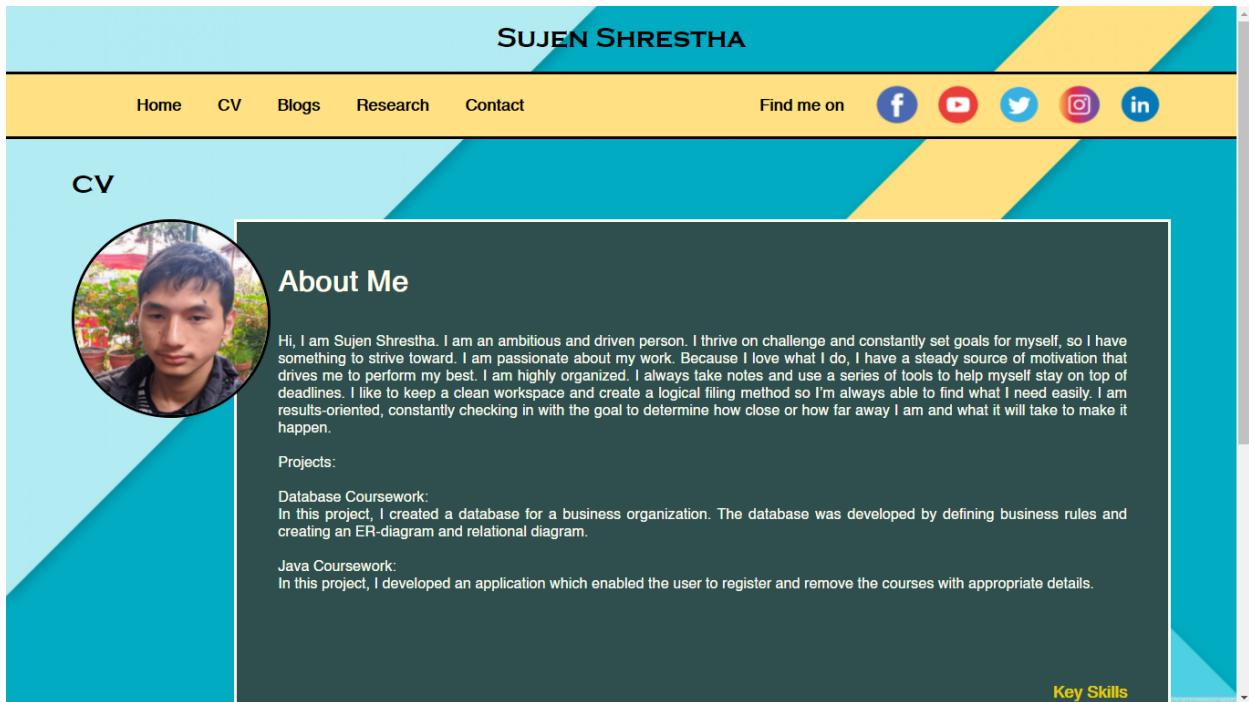


Figure 4: Screenshot of CV page

Blogs:

The blogs page contains various elements like the title, navigation bar and social media page redirect links to navigate to different pages in the header section. The main content contains of the title heading and two boxes. The box on the left side contains quick links to all the content on the page. The box on the right side contains the articles on various topics. Lastly, in the footer there is also a navigation bar, social media page redirect icons and a copyright notice.

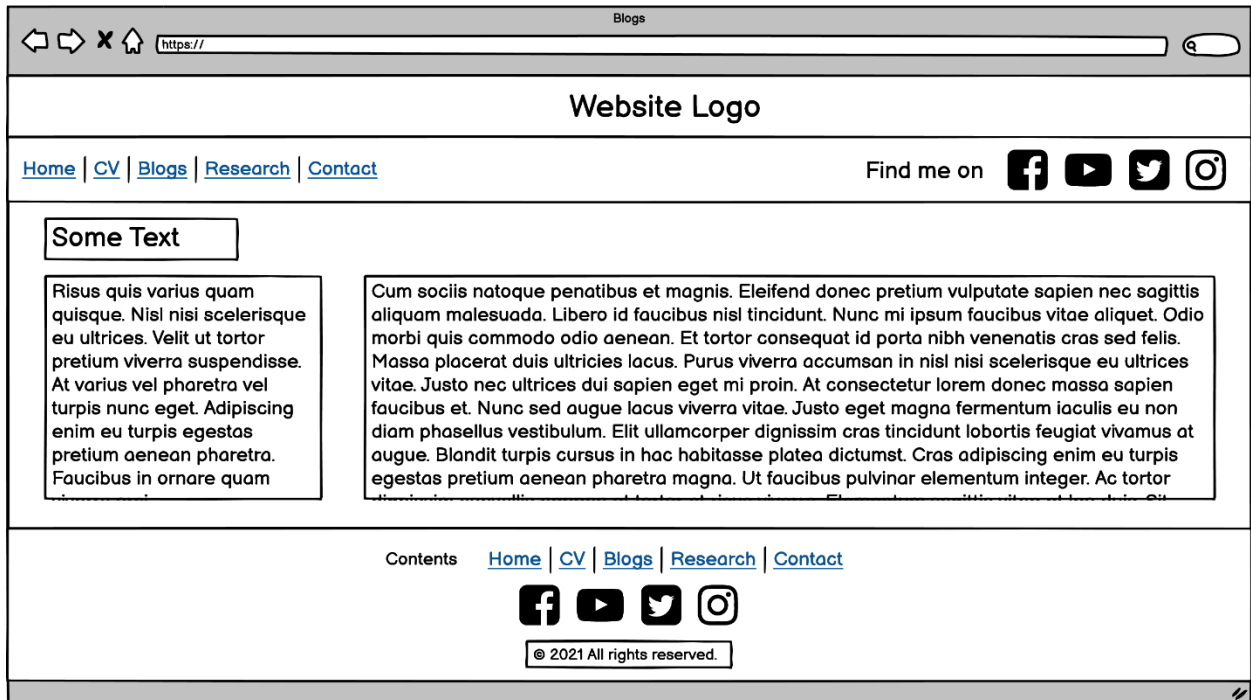


Figure 5: Screenshot of wireframe for Blogs page



Figure 6: Screenshot of Blogs page

Research:

The blogs page contains various elements like the title, navigation bar and social media page redirect links to navigate to different pages in the header section. The main content consists of a title heading and below it contains the comparison of various page elements. The image on the left side is clickable and redirects the user to the website of from which the reference was taken and the image on the right side is the image of element present in the website. Below this is the comparison and description of each element Lastly, in the footer there is also a navigation bar, social media page redirect icons and a copyright notice.

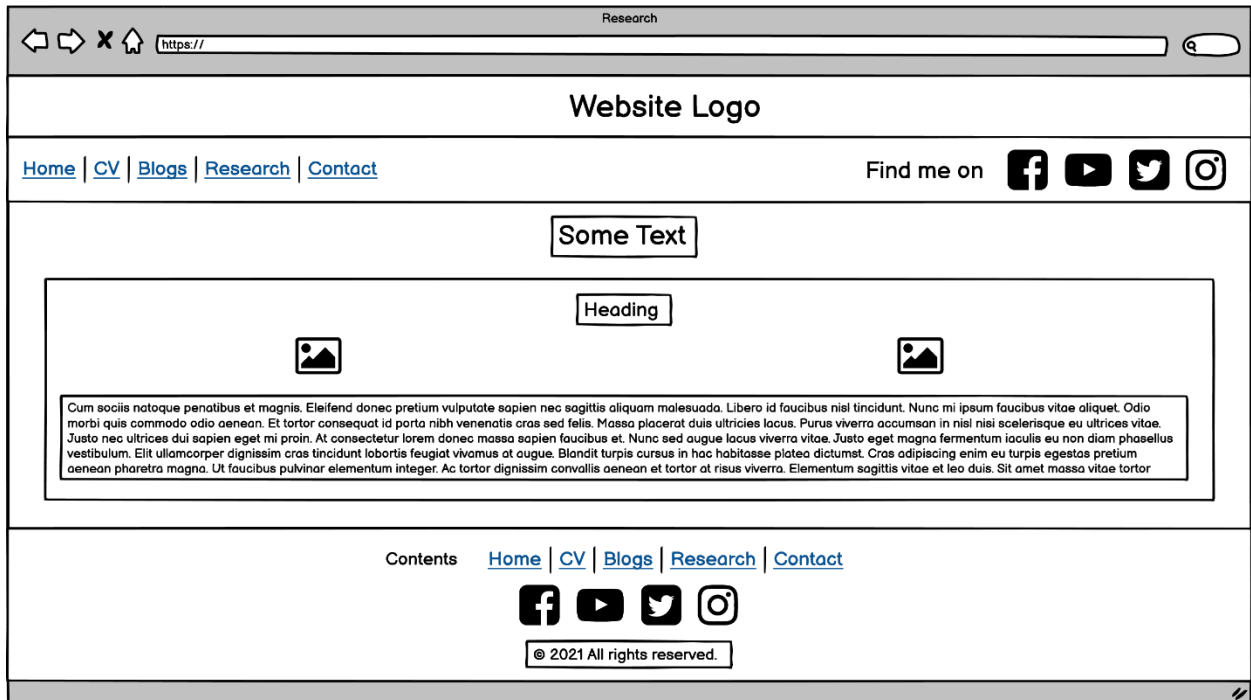


Figure 7: Screenshot of wireframe for Research page

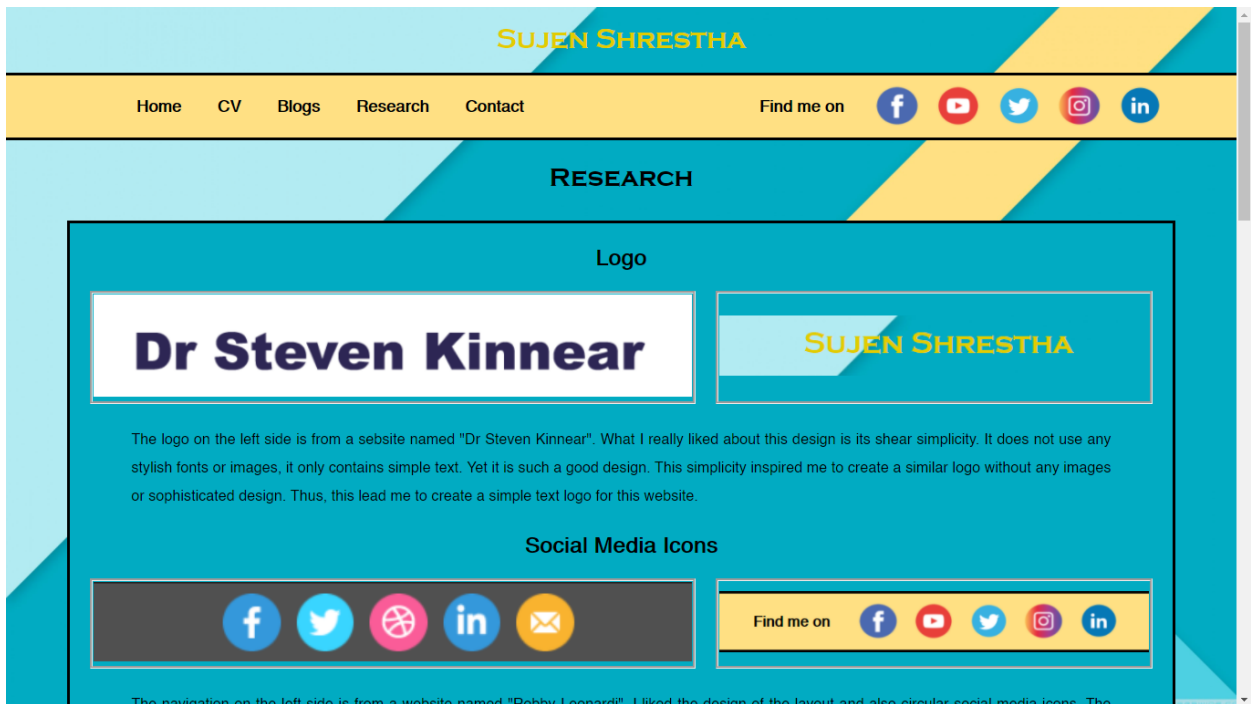


Figure 8: Screenshot of Research page

Contact:

The blogs page contains various elements like the title, navigation bar and social media page redirect links to navigate to different pages in the header section. The main content consists of a title heading and below it on the left side contains the form for the visitor of the site to contact the website owner. On the right side, contains a clickable map image which redirects the user to a google map site of the given location. Below it contains the details of the address, phone number and email. Lastly, in the footer there is also a navigation bar, social media page redirect icons and a copyright notice.

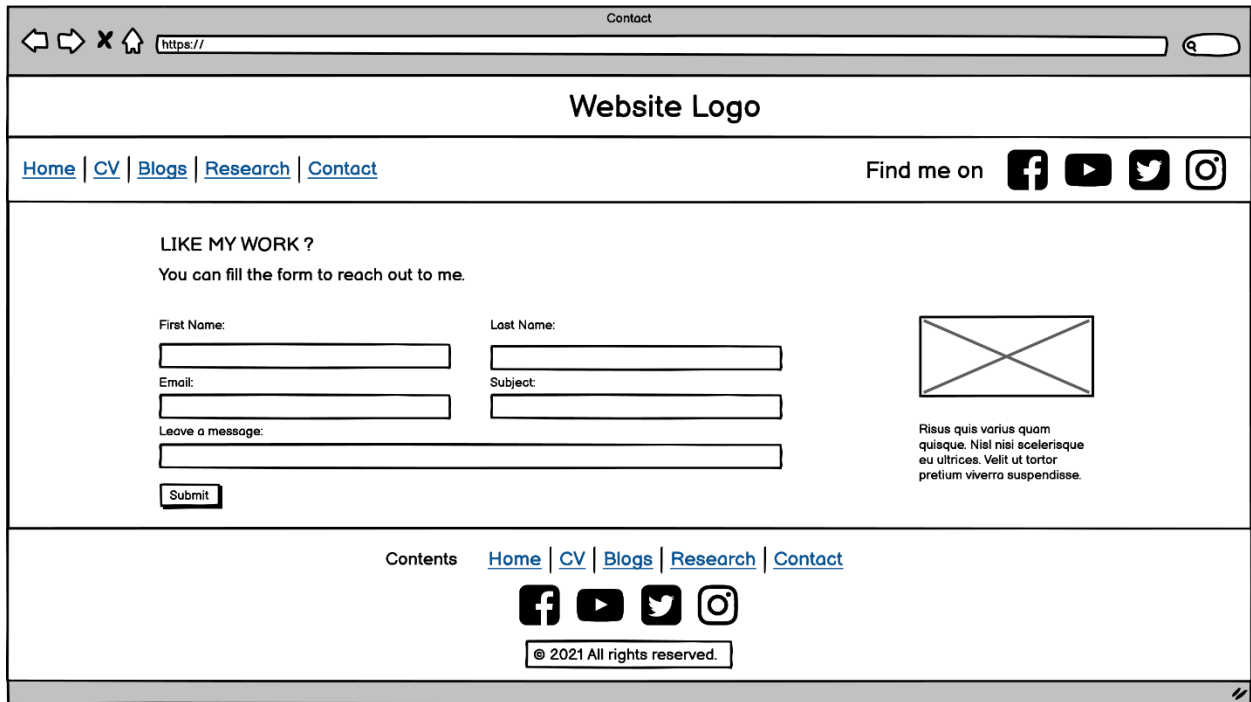


Figure 9: Screenshot of wireframe for Contact page



Figure 10: Screenshot of Contact page

3. Testing

Test 1

Objective	To show the change in time in the web page.
Action	The Home page was opened and the time was observed.
Expected Result	There should be change in time.
Actual Result	The change in time was observed.
Test	The test was successful.

Table 1: Test to show the change in time in the web page

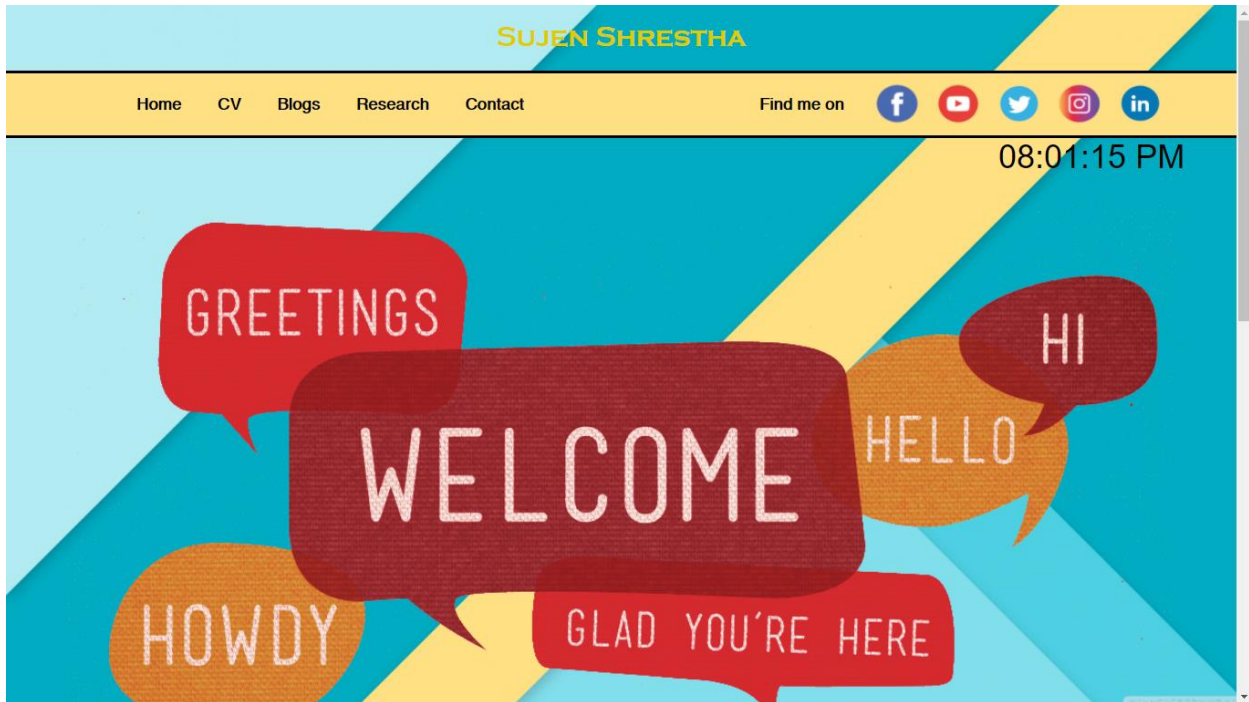


Figure 11: Screenshot of time in webpage

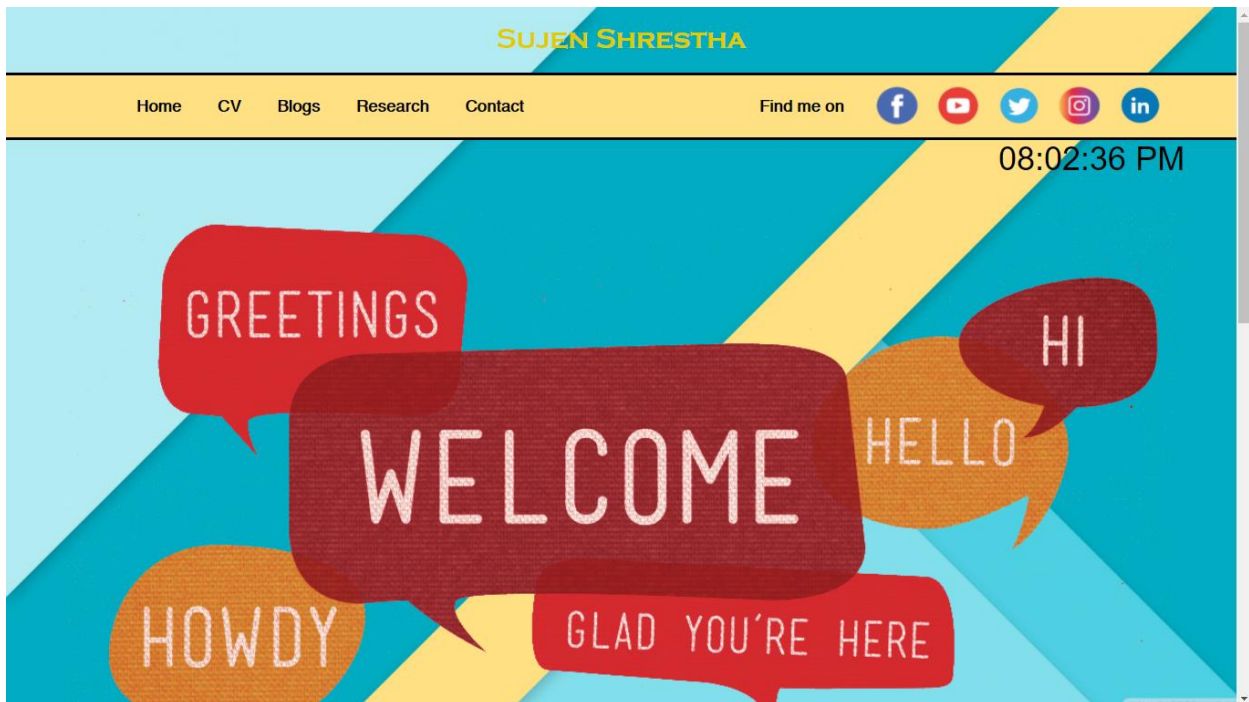


Figure 12: Screenshot of time after certain interval

Test 2

Objective	To show the alert box after submitting the form in Contact page.
Action	First, the Contact page was opened then the form was submitted while empty. Again, the form was submitted after filling all the fields.
Expected Result	The alert box should appear with suitable message for each case.
Actual Result	The alert box appeared with suitable message for each case.
Test	The test was successful.

Table 2: Test to show the alert box after submitting the form

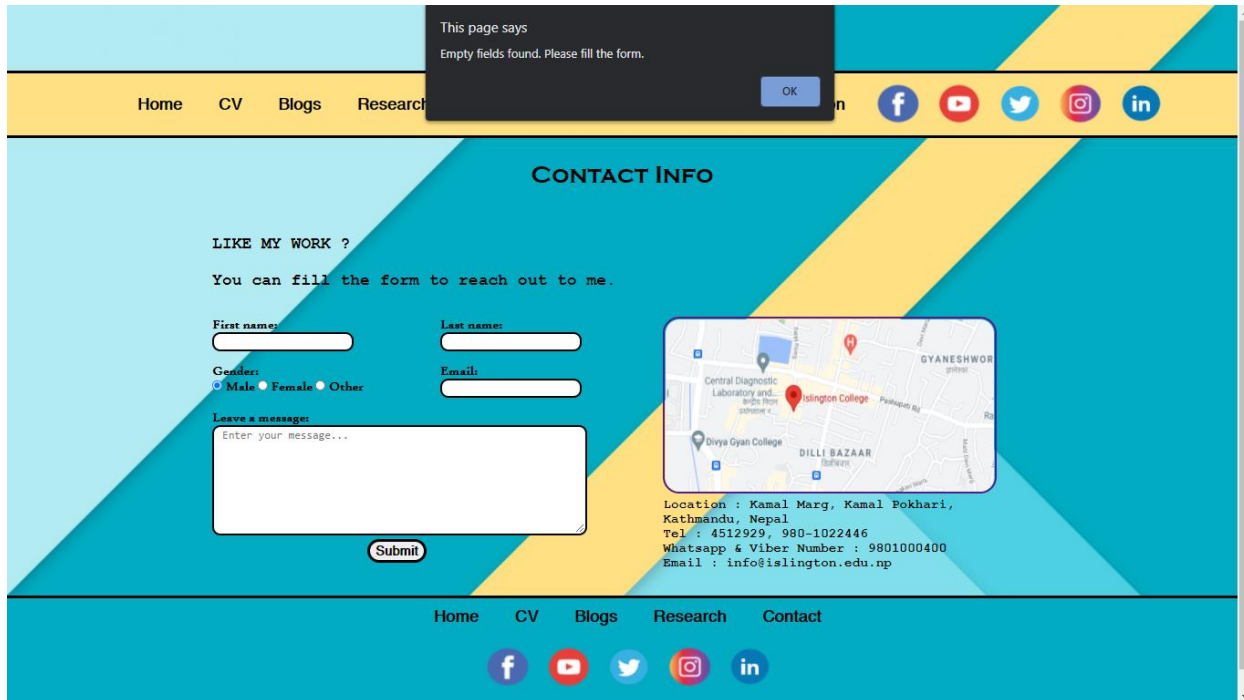


Figure 13: Screenshot of empty form submission

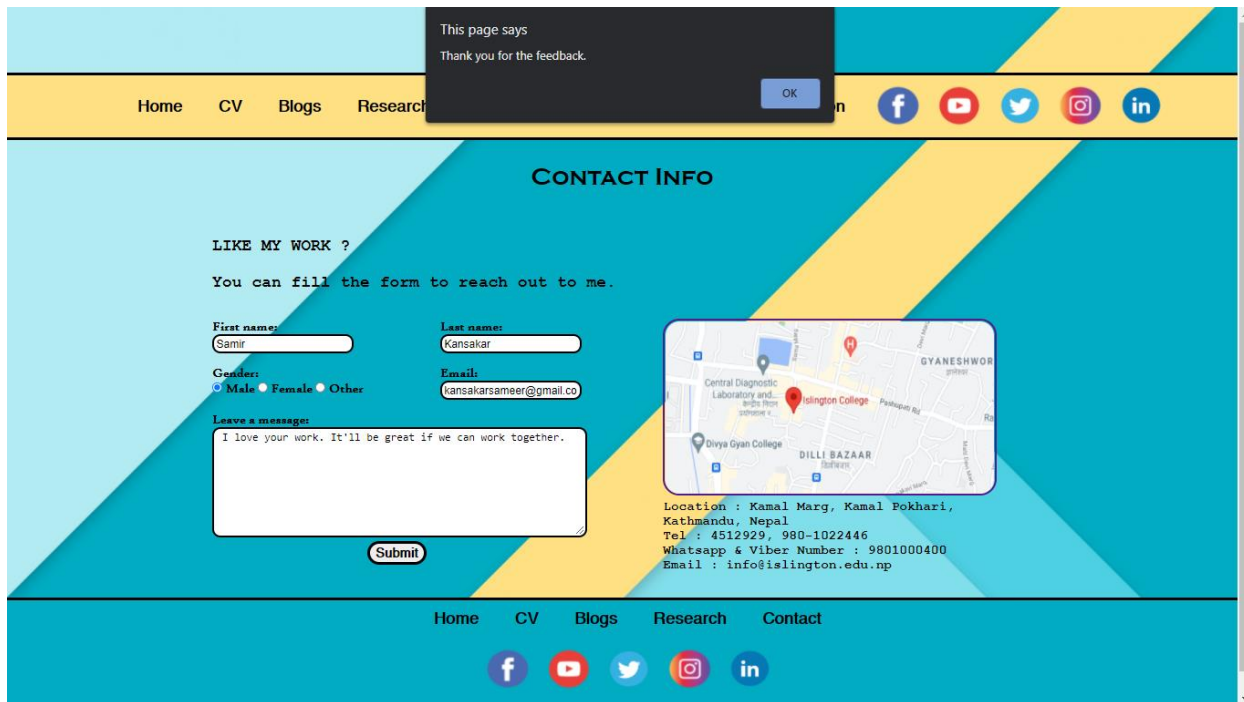


Figure 14: Screenshot of filled form submission

Test 3

Objective	To show the image slideshow in the Home page.
Action	The webpage was opened and the image was observed.
Expected Result	The image should change after certain time interval.
Actual Result	The change in image after certain time was observed.
Test	The test was successful.

Table 3: Test to show the image slideshow

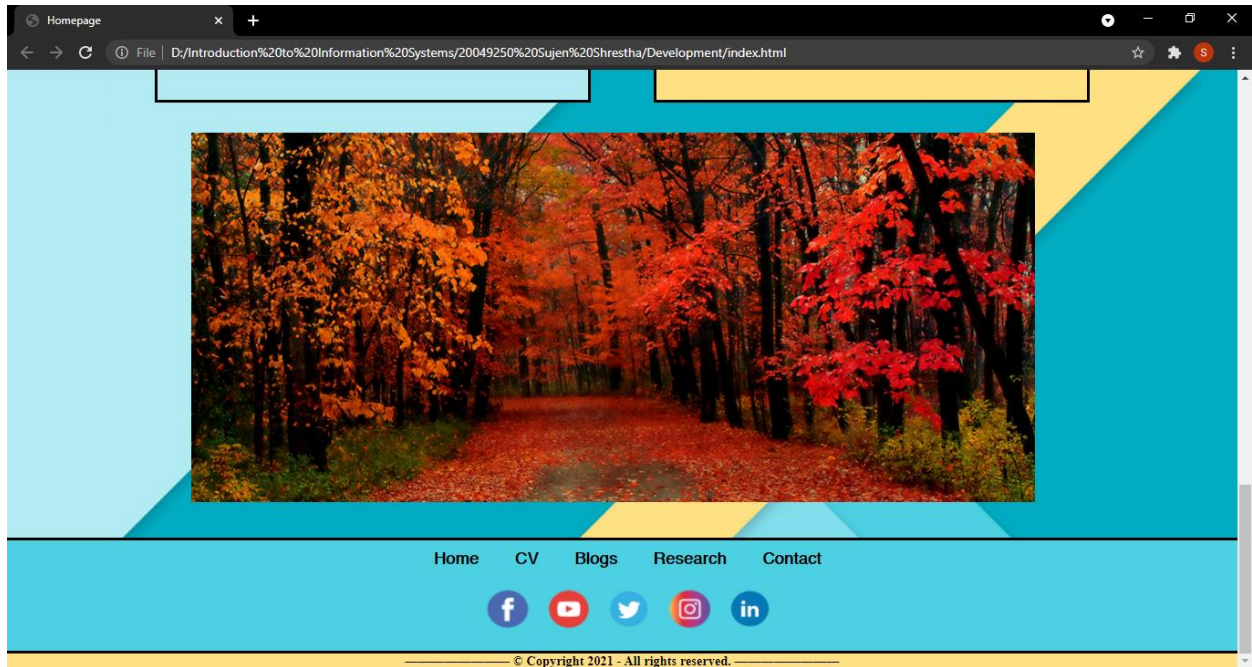


Figure 15: Screenshot of image slider in the web page

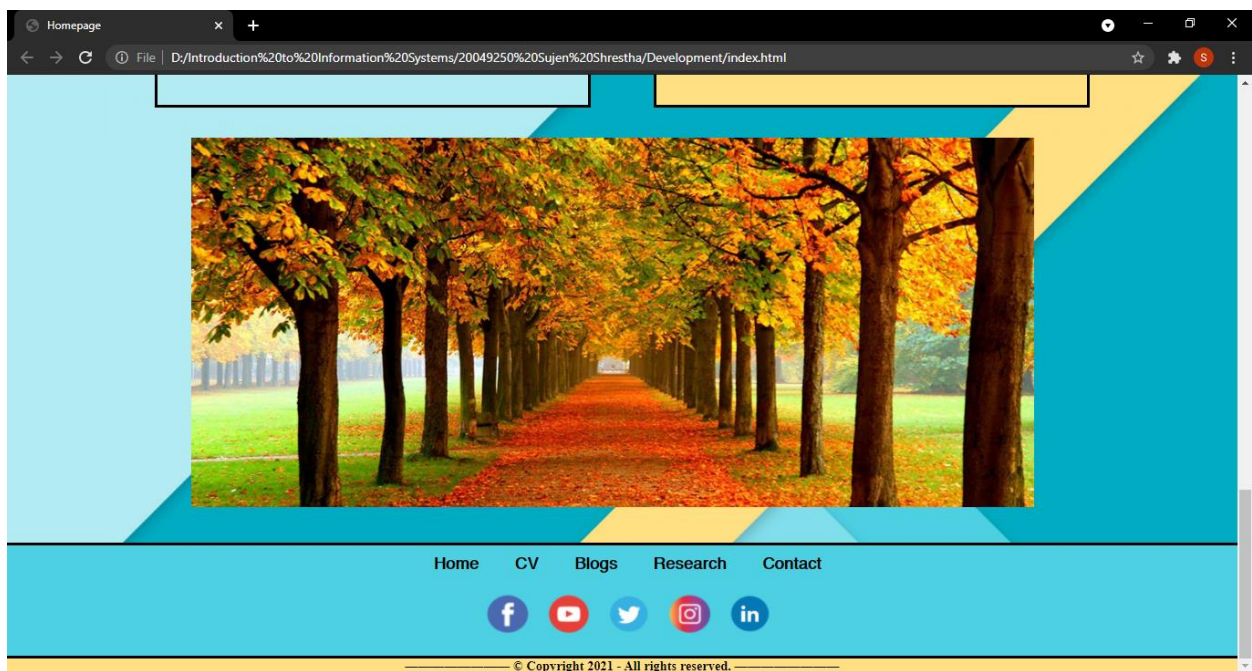


Figure 16: Screenshot of image slider after certain interval

Test 4

Objective	To show the hover effect while pointing at the navigation menu.
Action	The webpage was opened and the mouse was pointed at the navigation menu.
Expected Result	There should be change the colour of the text.
Actual Result	The change in colour of text was observed.
Test	The test was successful.

Table 4: Test to show the hover effect while pointing at the navigation menu



Figure 17: Screenshot of webpage without pointing at the navigation menu



Figure 18: Screenshot of webpage after pointing at the navigation menu

Test 5

Objective	To show the page redirect in internal and external links.
Action	First, the webpage was opened the Research page was clicked. Again, the image for the reference website was clicked.
Expected Result	The webpage should change after clicking the internal link and the website should open in a new window after clicking on the external link.
Actual Result	The webpage was changed within same window for internal link and the website was opened in a new window for an external link.
Test	The test was successful.

Table 5: Test to show the page redirect in internal and external links

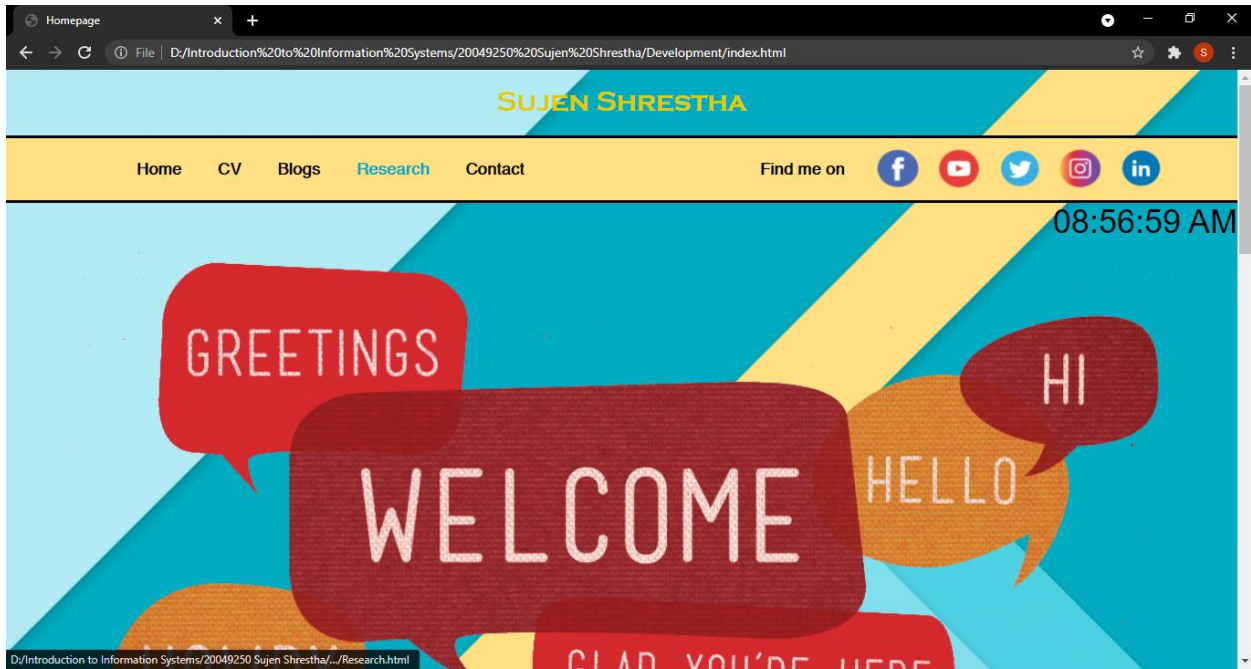


Figure 19: Screenshot of webpage before clicking the internal link

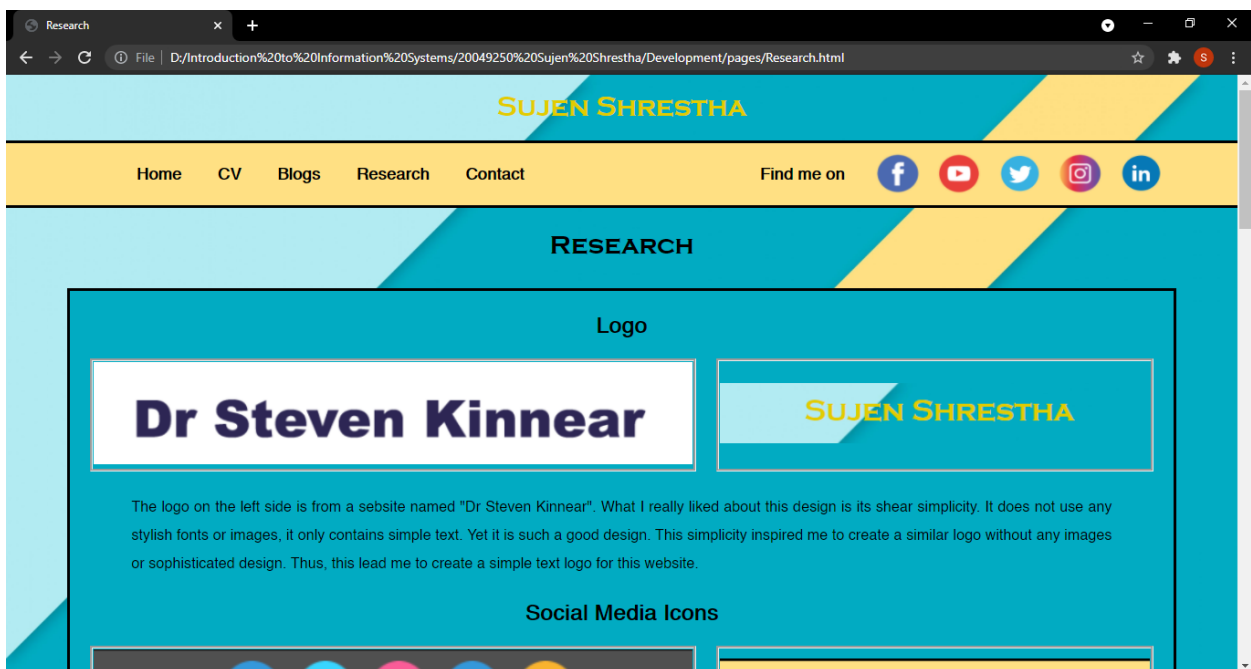


Figure 20: Screenshot of webpage after clicking the internal link

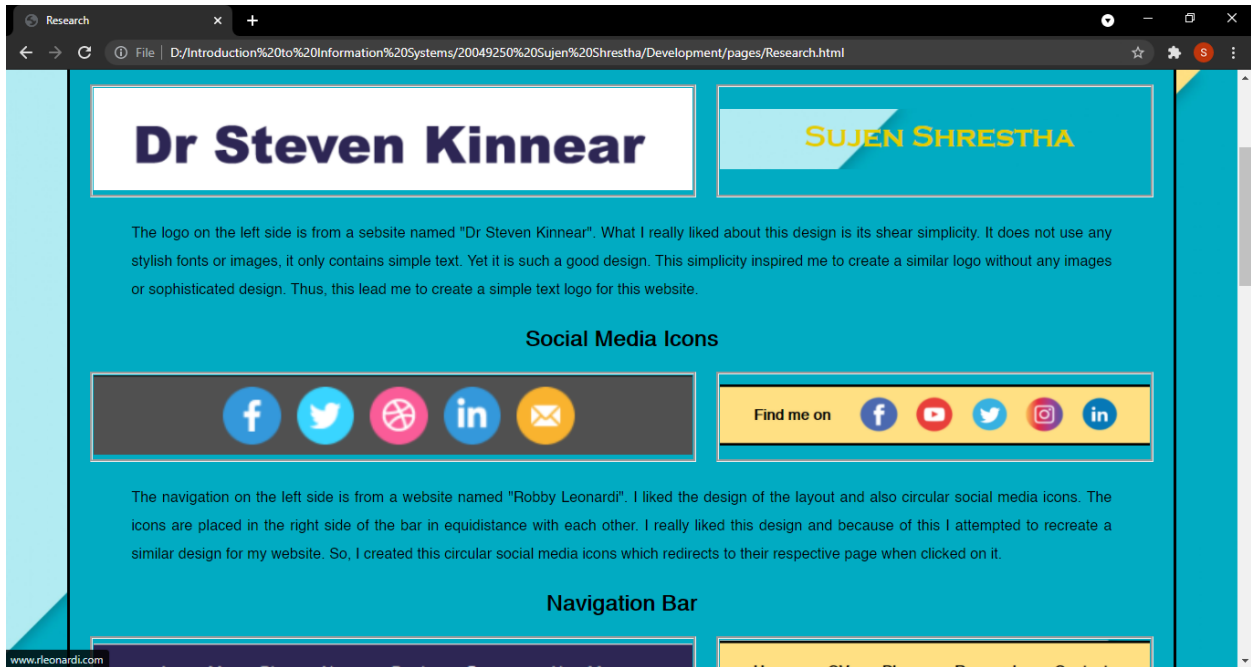


Figure 21: Screenshot of webpage before clicking the external link

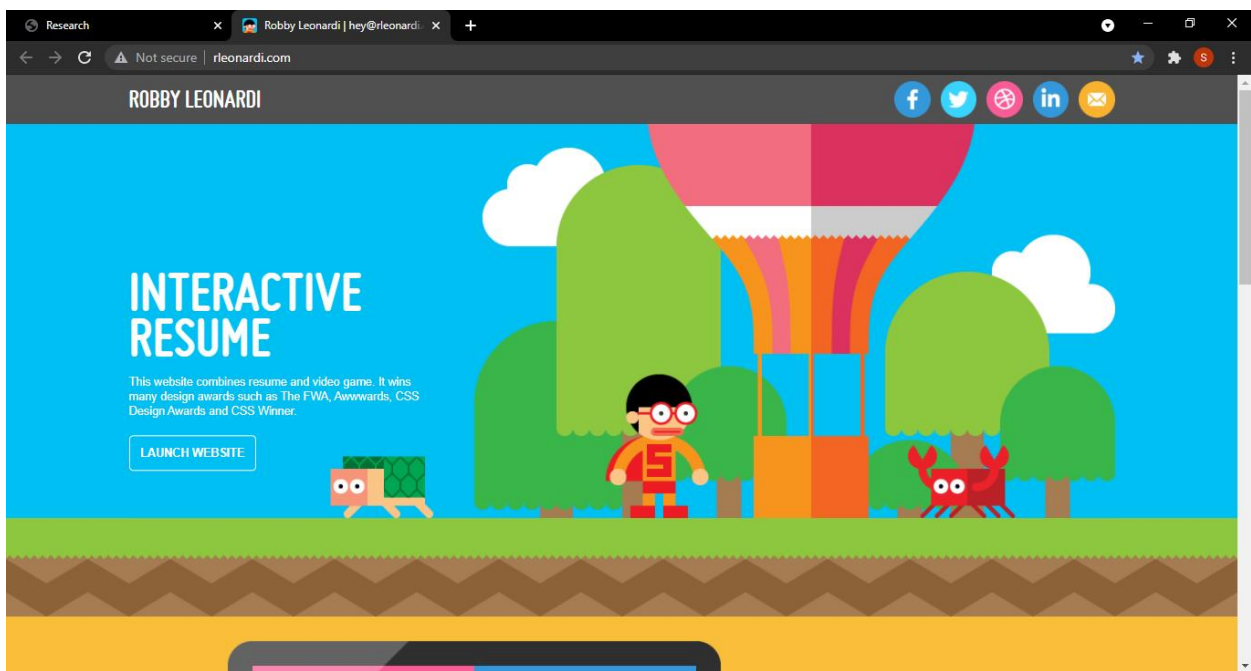


Figure 22: Screenshot of webpage after clicking the external link

4. Conclusion

In this project, I created a portfolio website using various tools like HTML 5, CSS 3 and JavaScript. While working on this project, I learned about the various HTML tags and the proper way to use them with proper naming conventions. I learnt that HTML is like the skeleton of a website which facilitates the structure by storing content and separating compartments for the required content to make a basic website. Likewise, CSS is the skin which helps to make the stored content visually appealing with various fonts, colours, alignments and various other effects. This is very useful to make the website look more attractive and user friendly. To continue the analogy, I also learnt that the JavaScript is like the muscle of the website. It is useful when certain functions need to be performed like dynamically changing the content, taking user input and allowing various other functions.

I was not familiar with most of the terms related to the content. So, I searched about it in various articles online and looked into my lecture content. There were some specific ideas and concepts which I couldn't grasp while studying it on my own. So, I asked my lecturers to help me understand those topics. They were very helpful and supportive, and explained those concepts to me in a very simple way. This helped me to learn about those ideas easily and further try new things. I tried to implement the things taught to me in this coursework and some of them worked effortlessly while some of them did not execute the way I intended. So, I did some more research and corrected the issues to make them work as required.

After working on this project, I have learnt to create a website with all the necessary components. I learnt that creating a wireframe helps a lot to make the structure of the website before actually starting to write all the codes. Creating the wireframe first has helped me save a lot of time and effort and helped me focus on the design before implementing it. It minimized the confusion while developing the actual website. I also learned about the navigation methods and applying scripting language which helped to make the website more interactive, usable and organized to non tech savvy people as well. In this way, this project has helped me to learn about the basic internet tools and technologies to develop a website and the impact it has made in the lives of people.

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