



**Islington college**  
(इरिलिङ्टन कलेज)

**Module Code & Module Title**

**CC4057NI Introduction to Information Systems**

**Assessment Weightage &Type**

**40% Individual Coursework**

**Year and Semester**

**2020 Spring**

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**London Met ID:**

**College ID: NP01CP4S200070**

**Assignment Due Date: 8<sup>th</sup> May**

**Assignment Submission Date: 8<sup>th</sup> May**

*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 marks of zero will be awarded.*

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## 1. Introduction.

A portfolio website is a medium to contrast our works done and to let others to know about ourselves. (Ragaine, 2020). It's important because it is one of the best way to express one's personality, experience and capability.

The 3<sup>rd</sup> coursework of module Introduction to Information System assigned us to create a portfolio website with at least five different webpages with the help of HTML, CSS and JavaScript. In this report, we will discuss about the components that were required while doing the coursework. Technology has revolutionized our life and developed incredible services and products to place knowledge at our hand. The technical influence is greater than we can ever imagine since everyone is dependent on technology whether it's a child or an adult. New innovations drives the market by chaos and people get used to them in no time, making their lives simpler, quicker and more enjoyable. So, my website is related to technology and is named as Tech Bivek .It's main aim and objective is to provide people a lot of information about the ongoing and upcoming Information Technologies.

The webpages has been created in a simple way using technologies like HTML, CSS (inline, external and internal) and JavaScript. Being a beginner in designing webpages, I had basic knowledge about all these coding languages. Since, HTML is the skeleton was webpage, most of the basic HTML tags were used to create the basic structure of webpage. CSS was used to design the websites. And JavaScript was mainly used for validating form and for giving alert messages which makes users more interactive.

The total of five different webpages were created. They all are linked together with the help of navigation bar. The webpages are:

1. Homepage:

This is the main page of the website where a welcome greeting statement is kept. Name and logo of the website, navigation bar and a footer containing copyright is mentioned.

2. CV: This webpage contains the resume of author of the website.

3. Blog: This page contains blog relating how technology has affected in our daily life.

4. Contact: This webpage consists of a contact form through which any website visitor can easily contact the owner of page in case of any questions or feedbacks.

5. Research: This actually is the webpage which displays and contrast the techniques used by us in our website against the research website.

## 2. Discussion and Analysis.

Different tools and technologies were required to complete the coursework. Those tools and technology are described in short below:

### 1. HTML.

HTML stands for Hyper Text Markup Language. It is generally used to develop and design webpages using Markup language. HTML5 was used to develop webpages of whole coursework. The text document within the tag defines the structure of the webpage.



Figure 1: Logo of HTML

### 2. CSS.

CSS (Cascading Style Sheet) is simple design language which has powerful control over the presentation of HTML document. CSS3 was used to design the HTML document in coursework. All its types (external CSS, internal CSS and inline CSS) were used. It is stylesheet language which helps to change the style or layout of Markup Languages like HTML.



Figure 2: Logo of CSS

### 3. JavaScript.

JavaScript is one of the dynamic and light weight programming language which is used to make webpage interactive. It is commonly used as part of webpage and can update both CSS and HTML. It has been used in coursework to do functions such as form validation and to change the style of whole HTML content using buttons.



Figure 3: Logo of JavaScript

### 4. Balsamiq:

Balsamiq is online design tool for creating wireframes. This tool was used for creating wireframes of all the webpages of portfolio website.



Figure 4: Balsamiq



## 5. Visual code studio:

Visual code studio is the source code editor developed by Microsoft for OS, Linux and Mac OS. All the webpages were developed with the help of this tool.

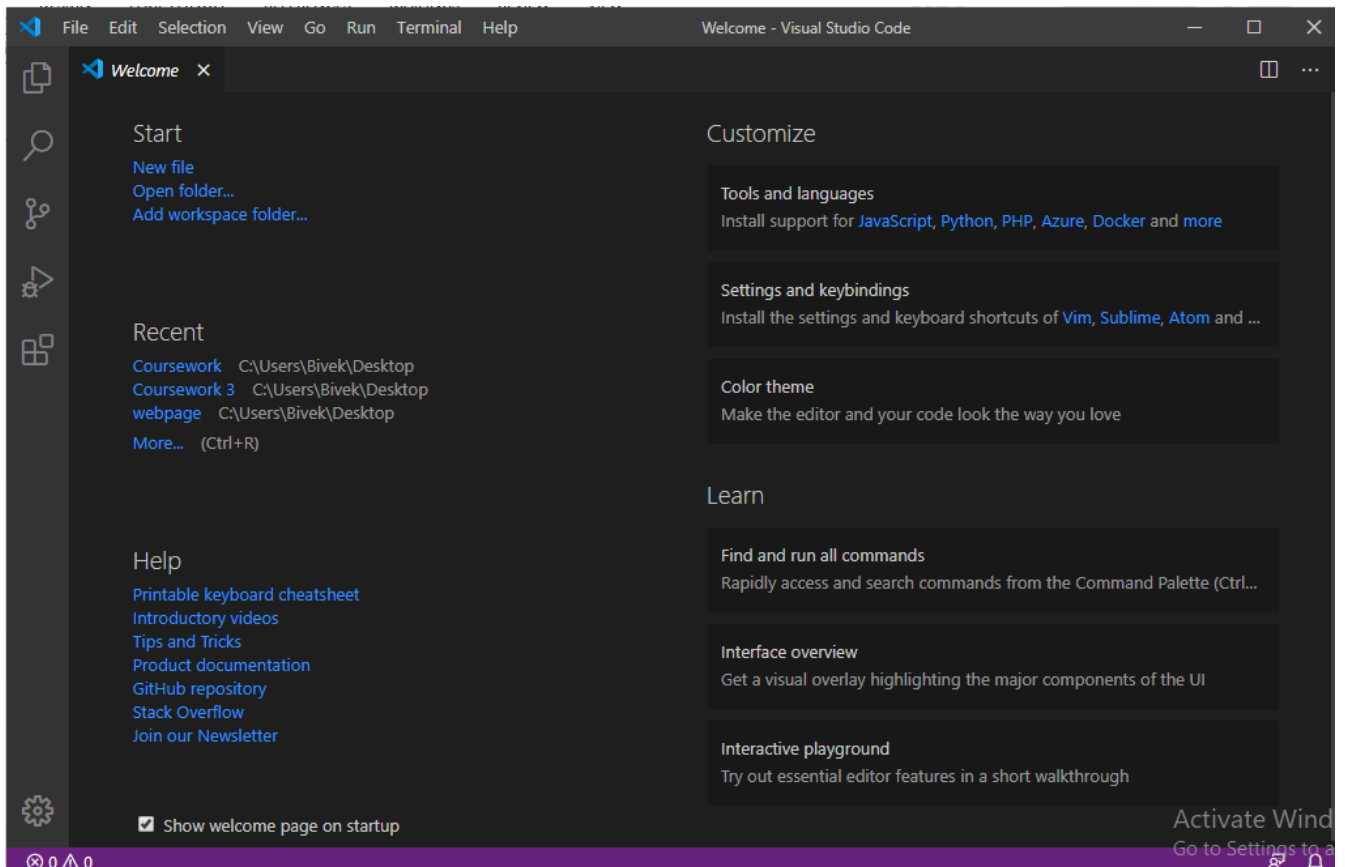


Figure 5: Visual Code Studio.

### 3. Design, Specifications, and Implementation

#### 3.1. Wireframes.

Wireframe is the skeletal framework of the website which shows where the different components of webpage are located within the page. Wireframes of all the webpages were created using balsamiq tool.

I. . Wireframe for Home webpage.

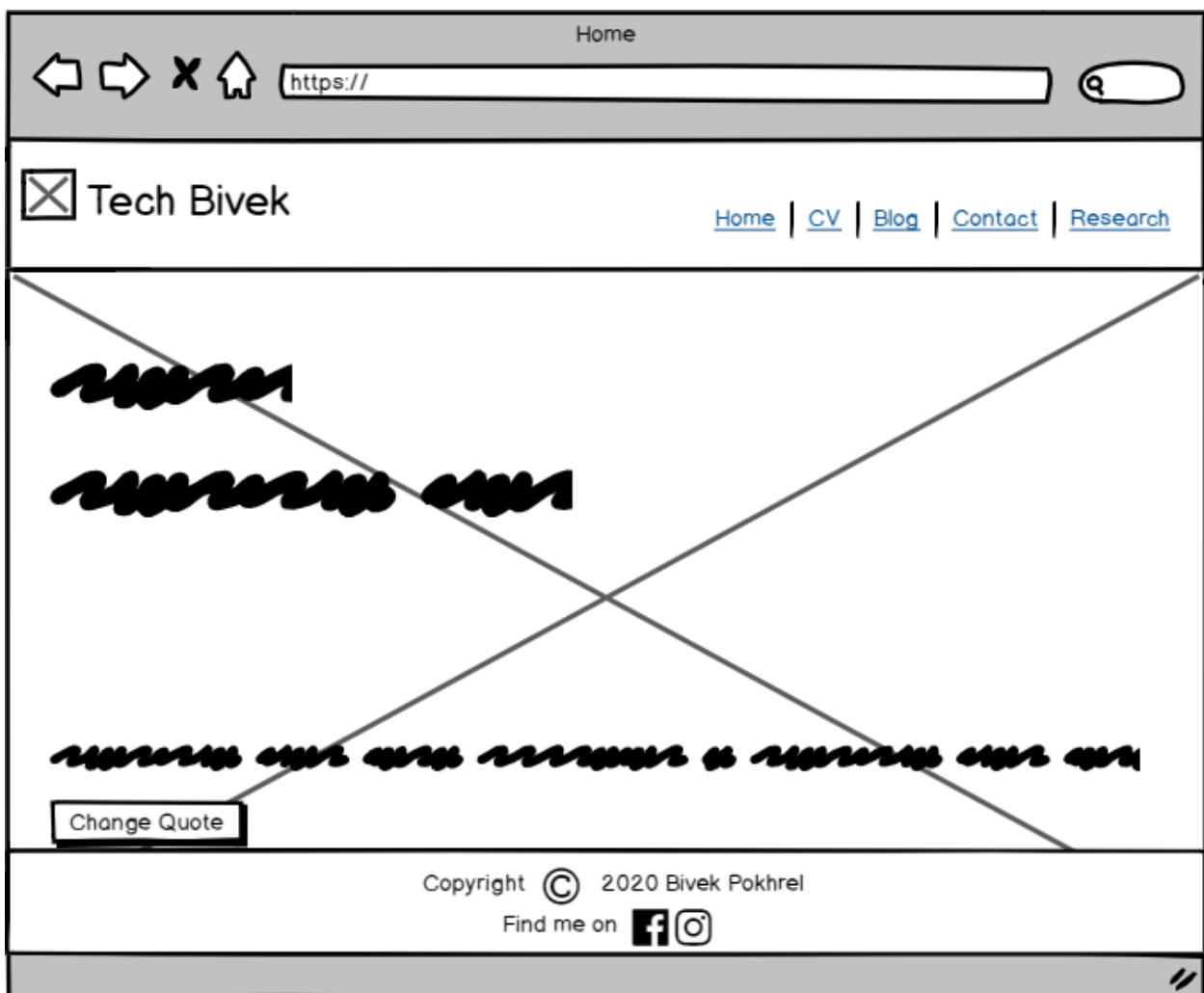


Figure 6: Wireframe for home webpage.

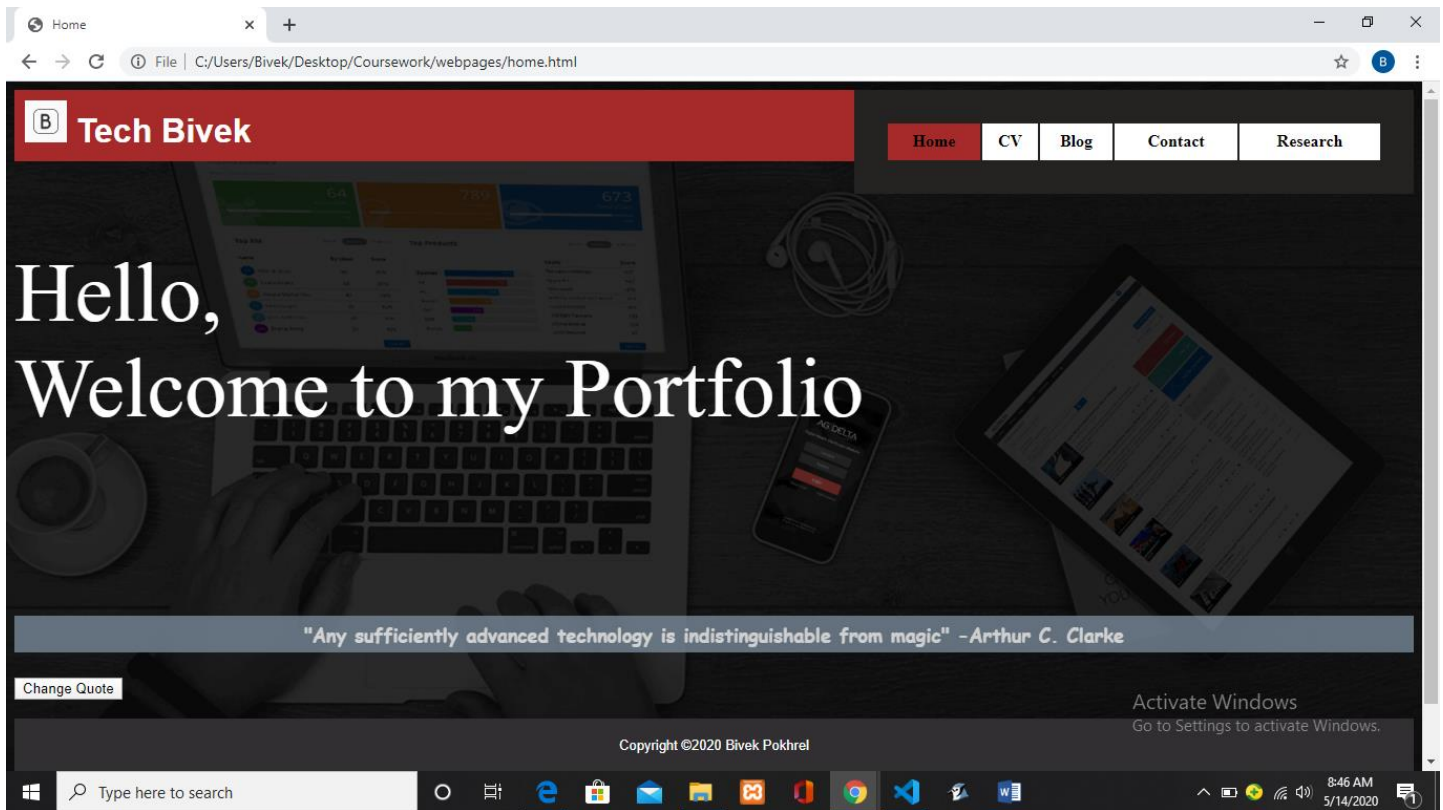


Figure 7: Screenshot of home webpage

The design of the home webpage was identical to wireframe. Different tags of HTML were used, For example: <nav> tag to develop navigation bar. There is header to contain the logo and name of the website. The change quote button was developed with the help of JavaScript. The designation was done using CSS. A separate division class named footer was created to include the copyright of the website.

## II. Wireframe for CV webpage

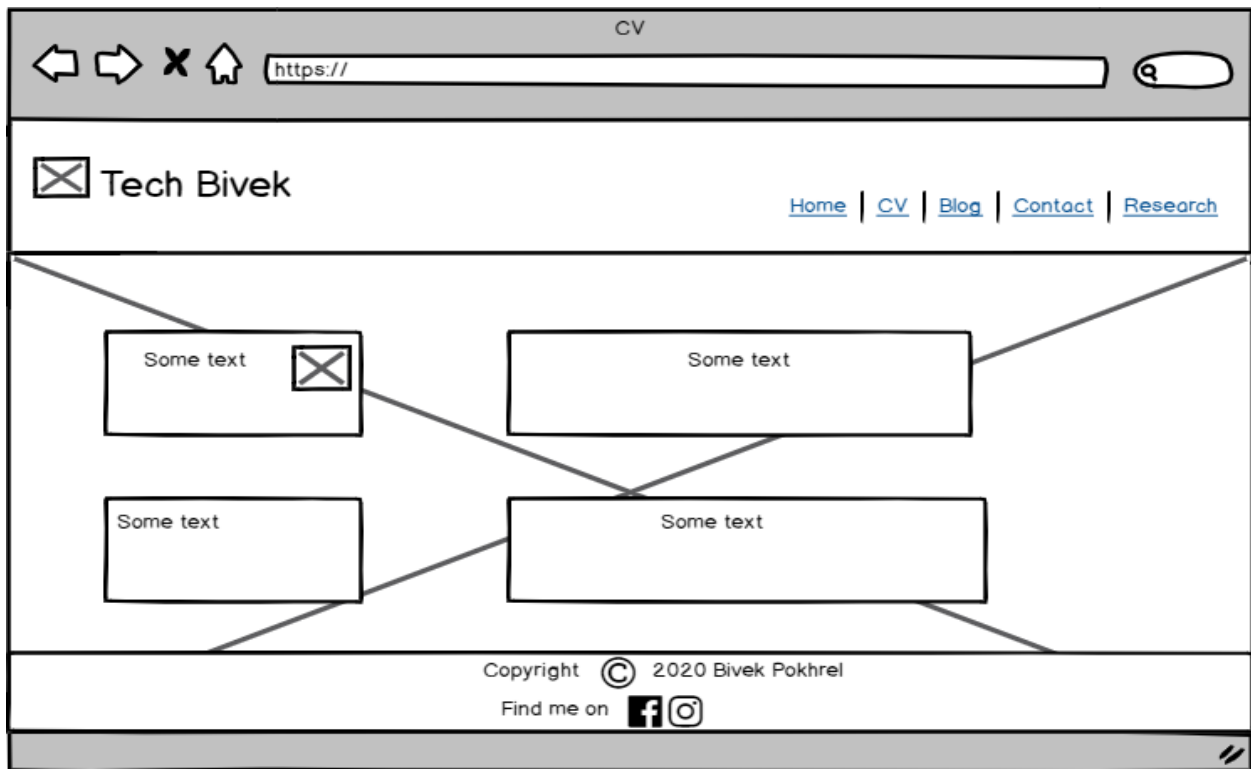


Figure 8: Wireframe for CV webpage.

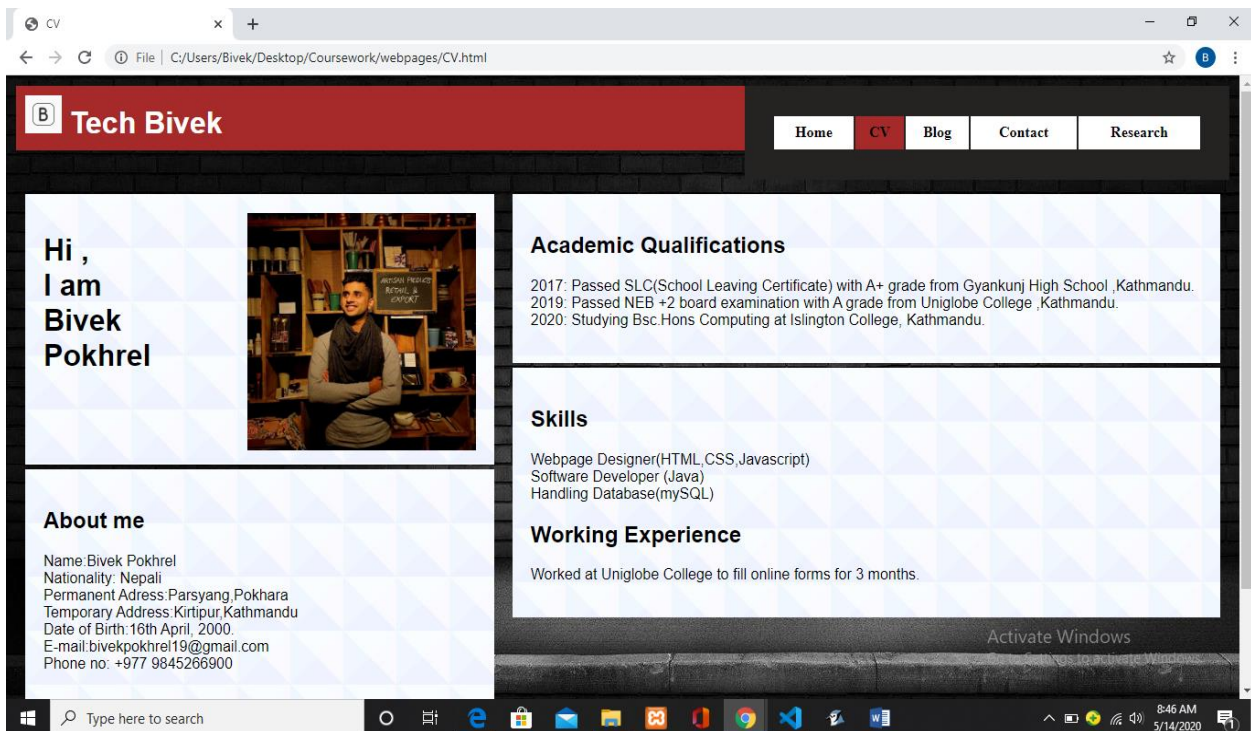


Figure 9: Screenshot of CV webpage.

I was able to make the layout of CV webpage identical to the wireframe. For this I had to use CSS flexbox layout.

### III. Wireframe for Blog webpage.

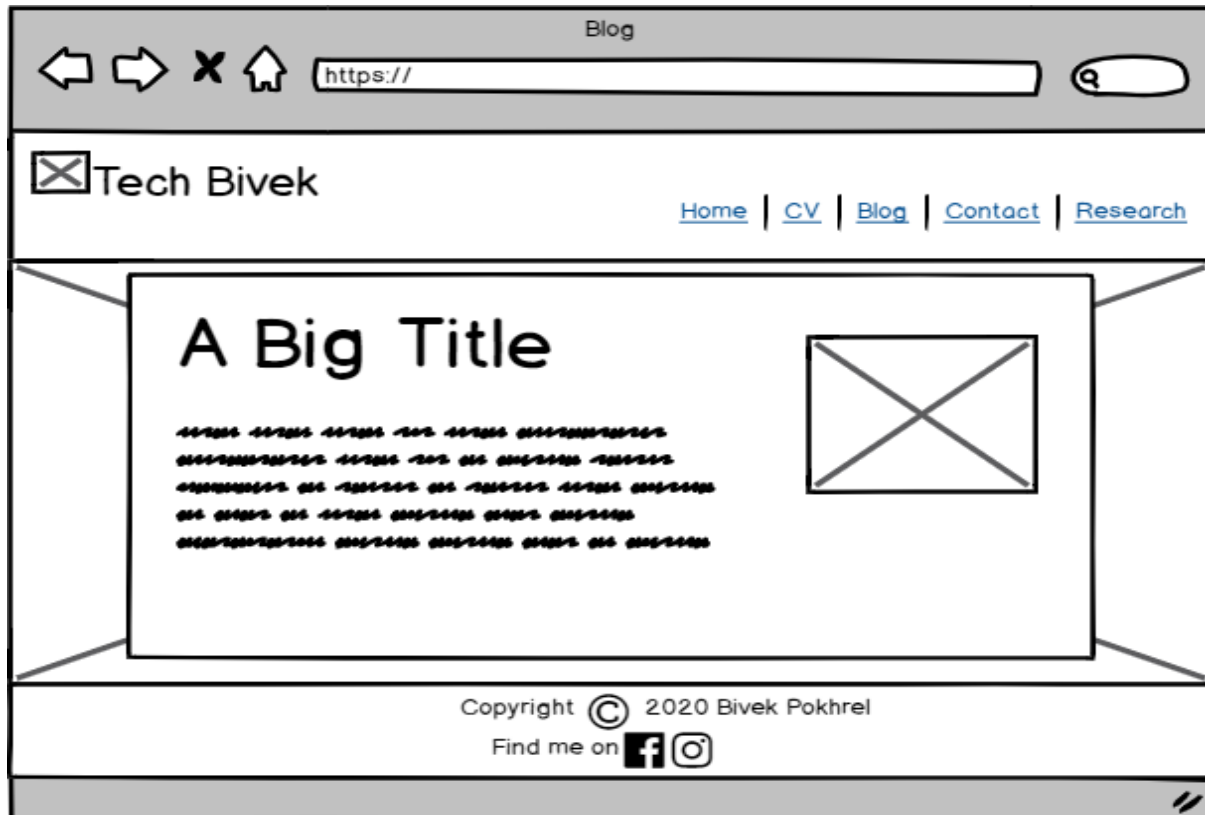


Figure 10: Wireframe for blog webpage.

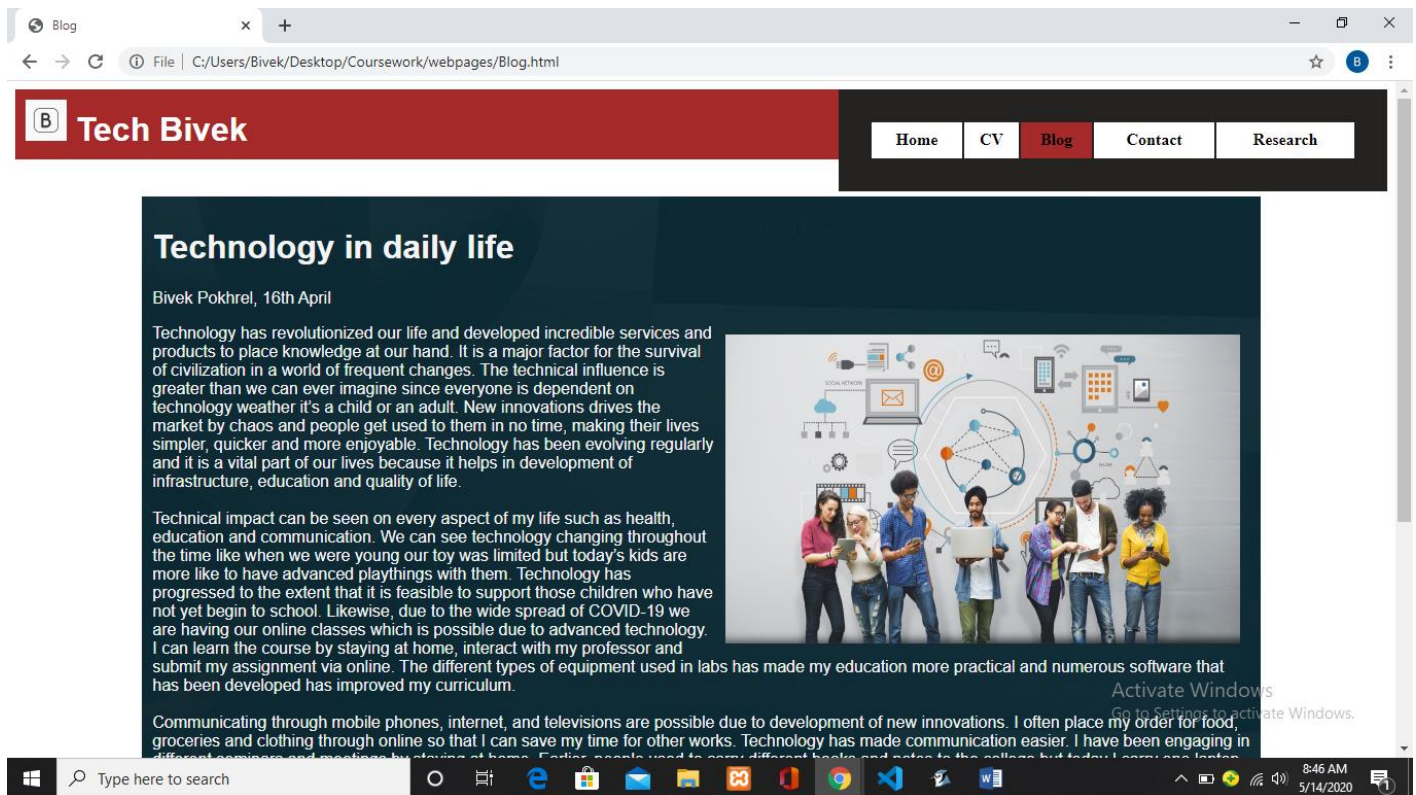


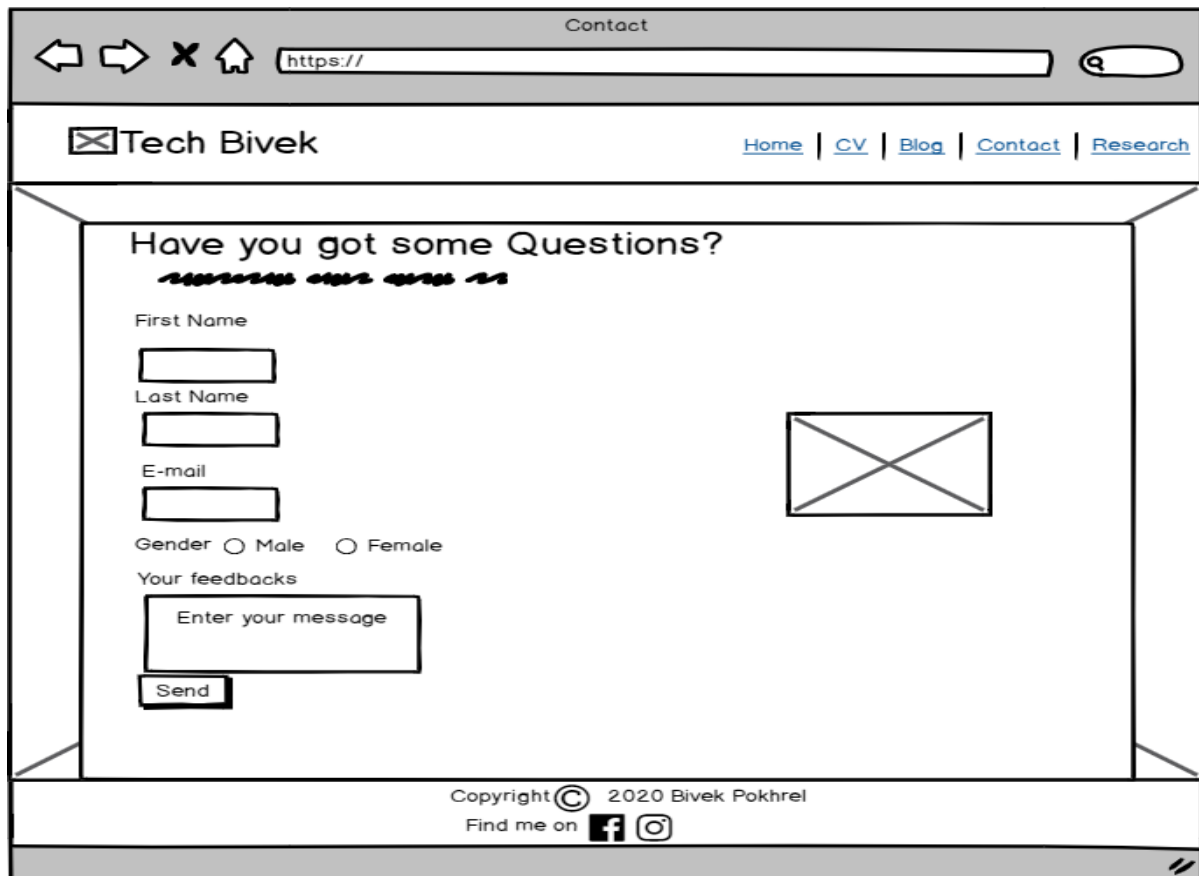
Figure 11: Screenshot of blog webpage.

I was able to design the blog webpage as I intended in my wireframe. An image was added using `<img>` tag. A division class container was made with help of CSS to include main content of webpage.

#### IV. Wireframe for Contact webpage.

I was able to design the Contact webpage as I planned in my wireframe. For this, I had to use JavaScript for the form validation. And simple HTML tags and CSS styles for designing.





The wireframe shows a web browser window titled "Contact". The address bar contains "https://". The page header includes a logo "Tech Bivek" and navigation links: "Home", "CV", "Blog", "Contact", and "Research". The main content area has the heading "Have you got some Questions?" followed by a decorative line. Below this is a contact form with fields for "First Name", "Last Name", and "E-mail". There are radio buttons for "Gender" (Male and Female). A text area for "Your feedbacks" is labeled "Enter your message". A "Send" button is at the bottom of the form. To the right of the form is a placeholder for a logo, represented by a rectangle with an 'X'. The footer contains the text "Copyright © 2020 Bivek Pokhrel" and social media icons for Facebook and Instagram.

Figure 12: Wireframe for Contact webpage.

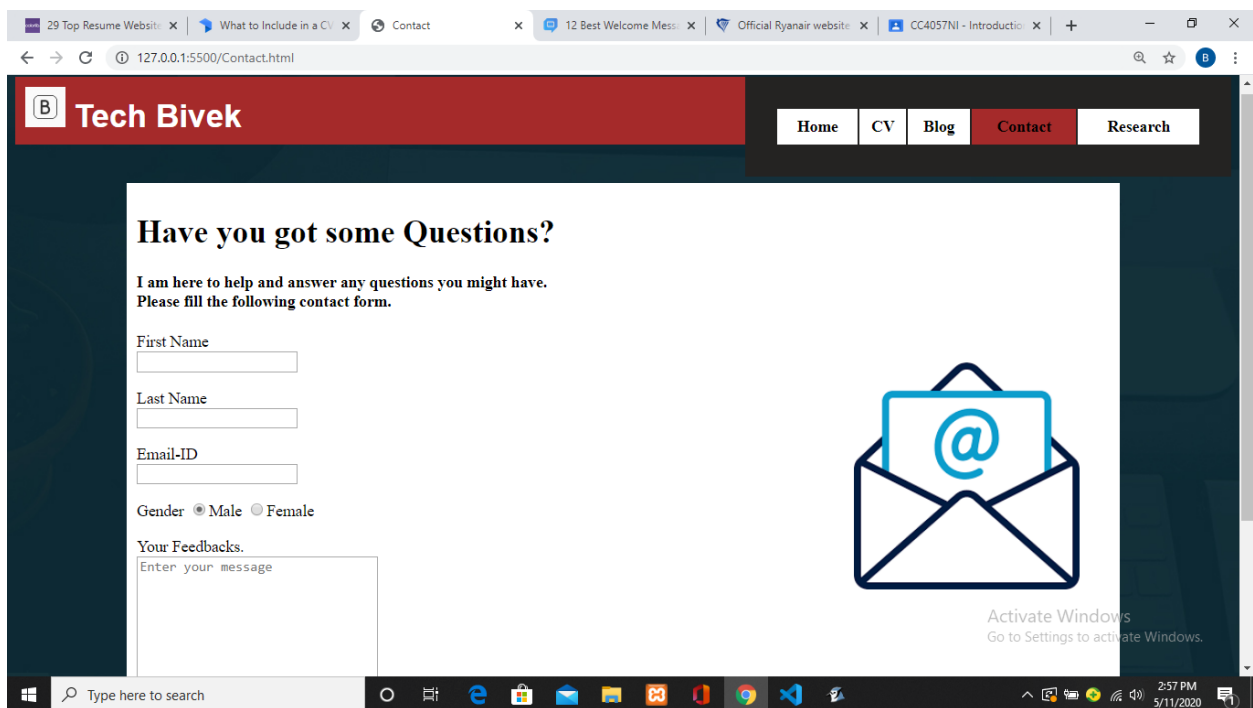


Figure 13: Screenshot of Contact webpage.

## V. Wireframe for Research webpage:

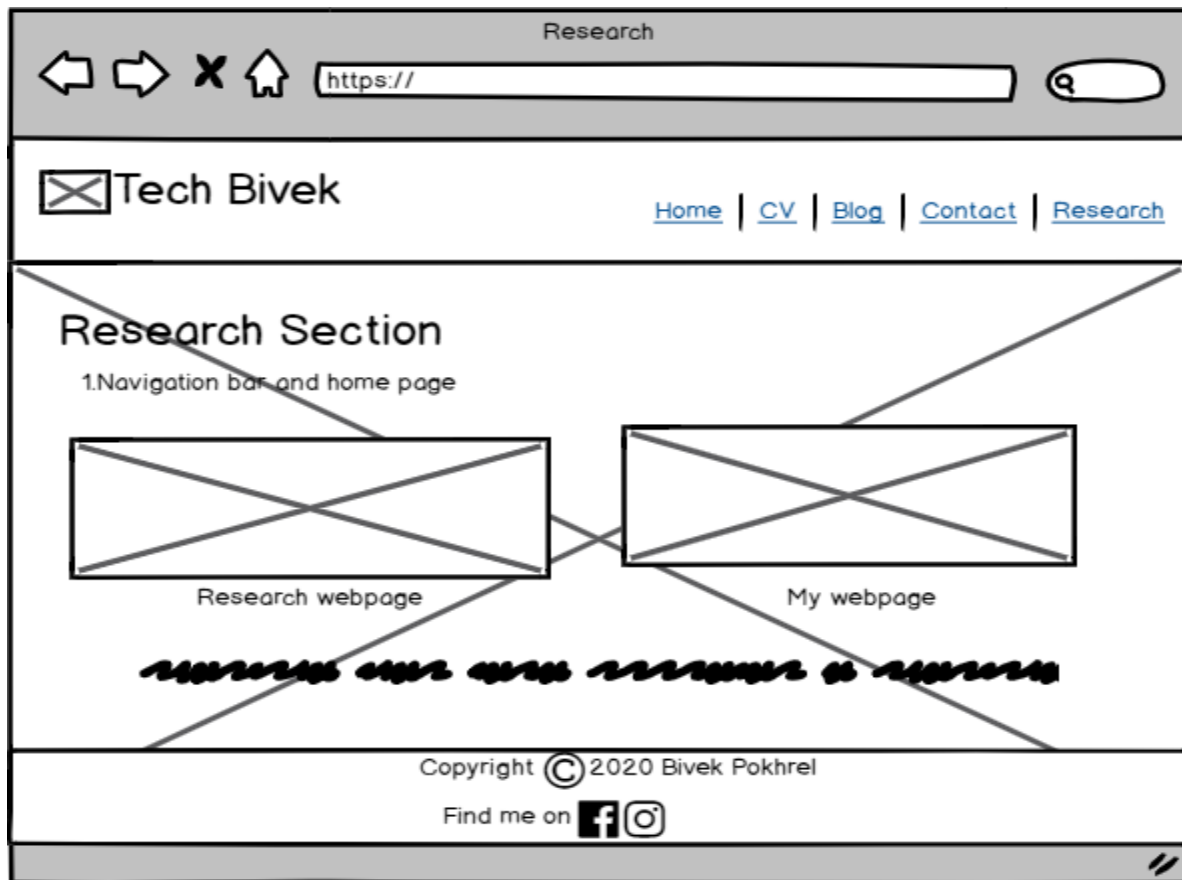


Figure 14: Wireframe for Research webpage.



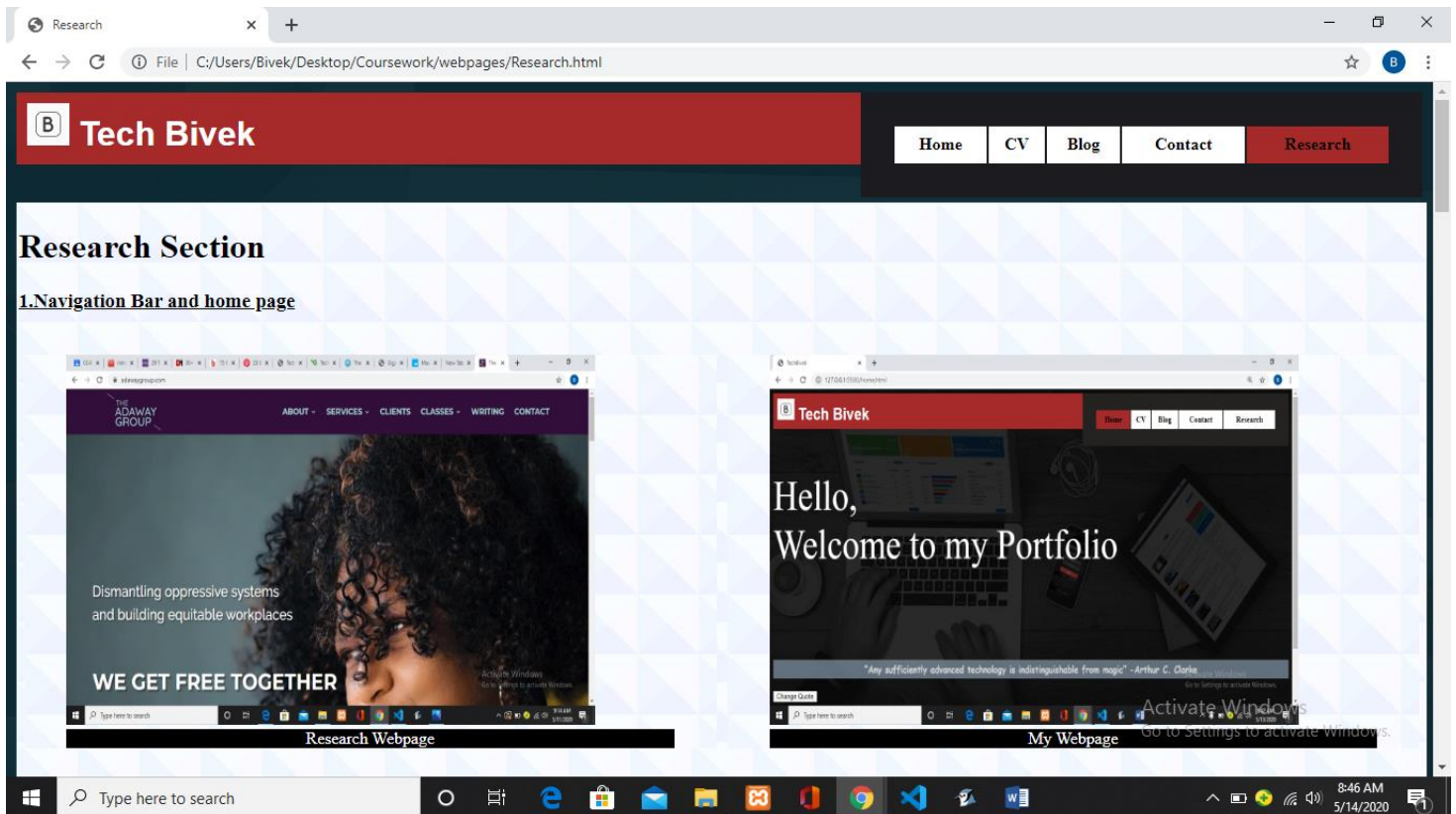


Figure 15: Screenshot of Research webpage.

I was able to develop the Research webpage as per the plan I made in my wireframe. I had to use CSS flexbox to keep images of reference webpage and my webpage side by side.

## 4. Testing

In order to ensure whether the webpage is functioning properly or not, different test were carried out. Some of the tests are given below.

### 4.1. Test1.

Objective	To show alert when the text fields are kept empty in contact form.
Action	Only one text field was filled and submit button was clicked.
Expected result	The alert message has to be appeared.
Actual result	Alert message appeared saying "Please fill the form properly"
Conclusion.	Test Successful

Table 1: Summary of test 1.

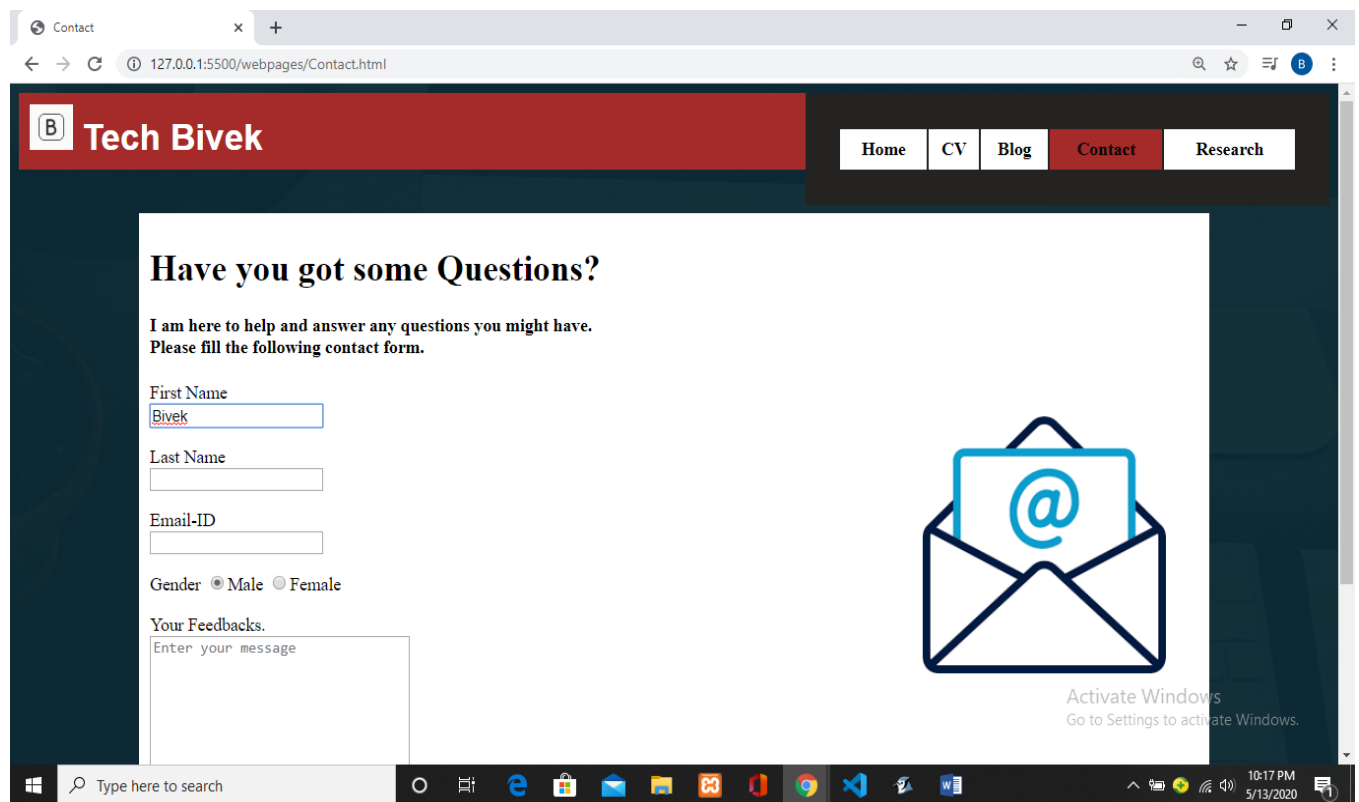


Figure 16: Before test 1.

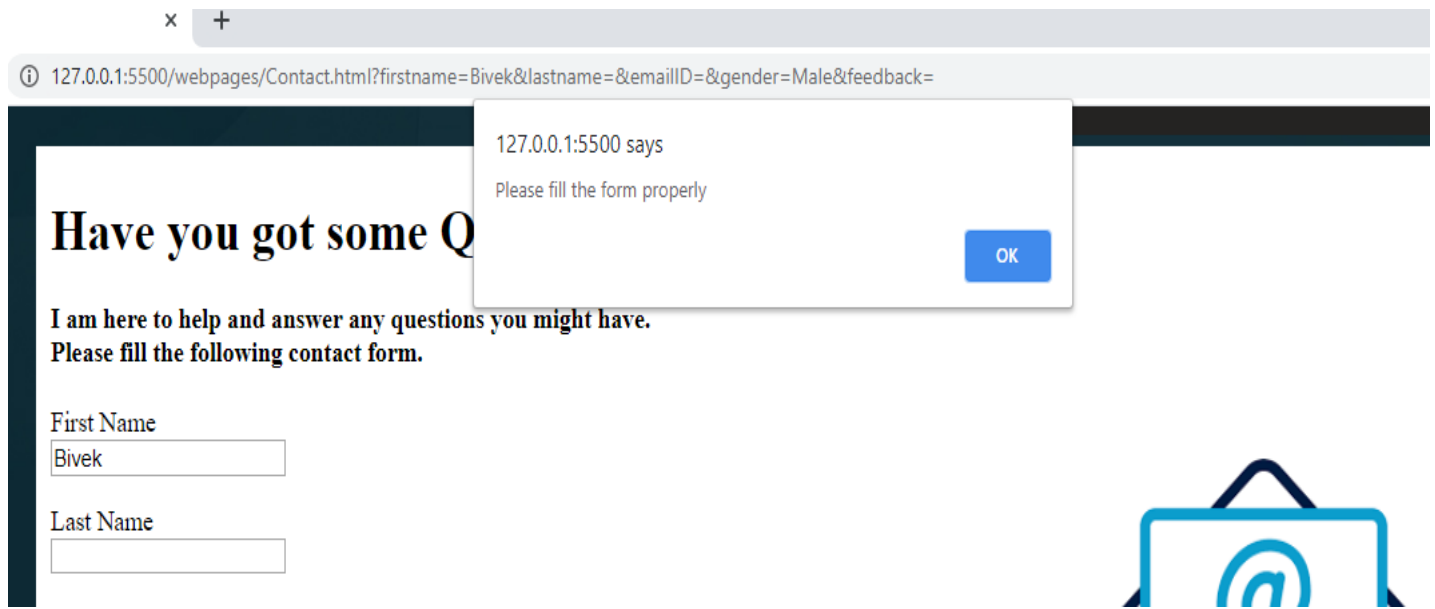


Figure 17: After test 1.

## 4.2. Test2.

Objective	To navigate from one page to another within the website.
Action	The CV link of navigation bar was clicked.
Expected result	The CV webpage has to be opened.
Actual result	CV webpage opened.
Conclusion.	Test Successful

Table 2: Summary of test 2.

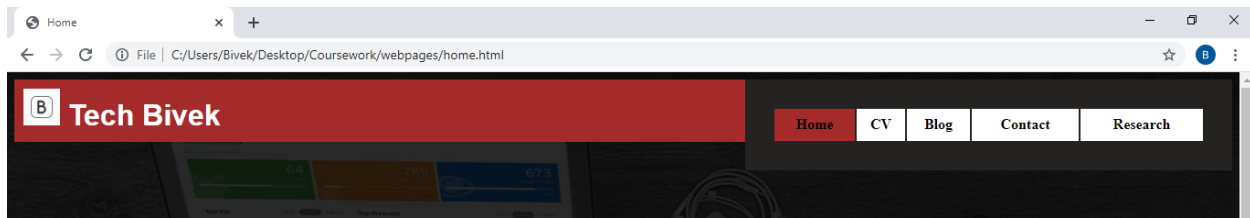


Figure 18: Before test 2.

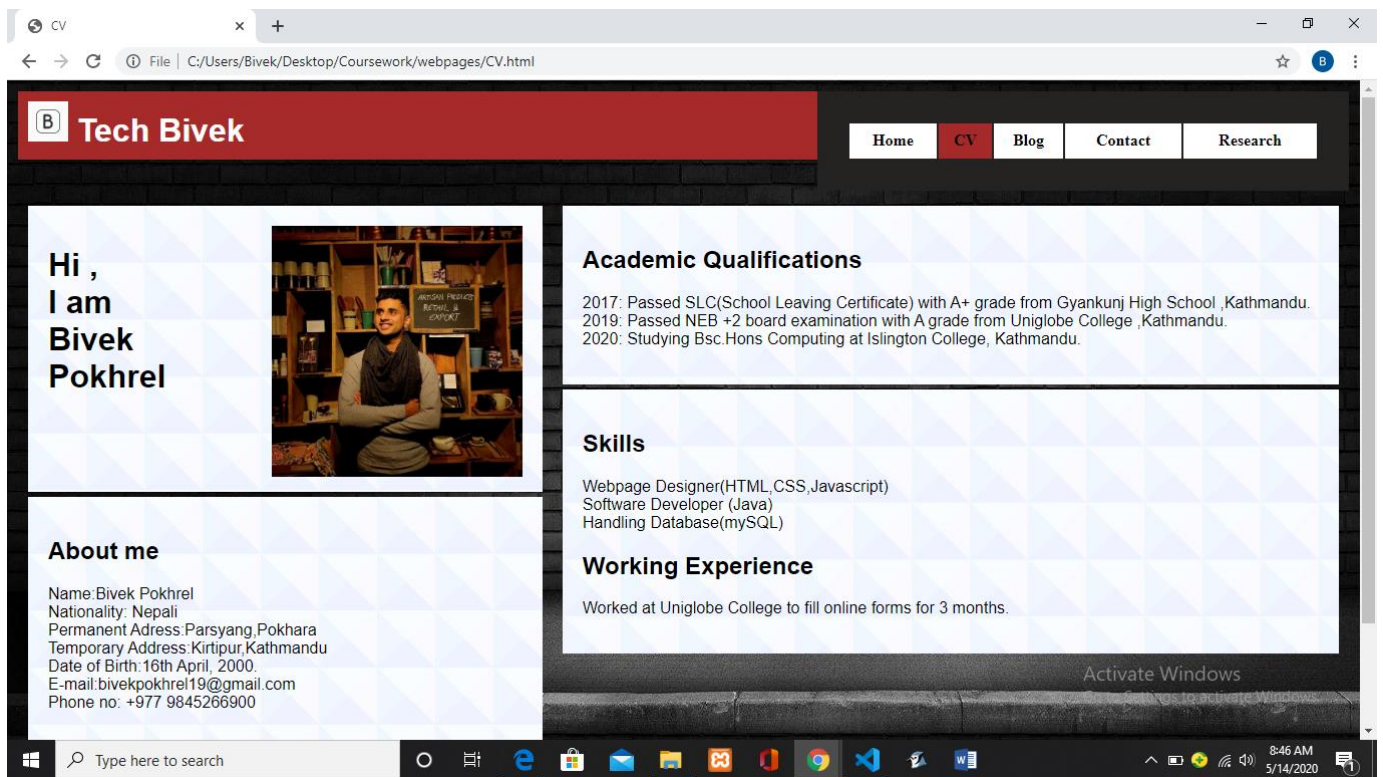


Figure 19: After test 2.

**4.3. Test 3.**

Objective	To check whether the external link is working or not.
Action	The icon of Instagram in the footer was clicked.
Expected result	An external link has to be opened.
Actual result	An external link showing the Instagram profile of the website's owner was opened.
Conclusion.	Test Successful

Table 3: Summary of test 3.

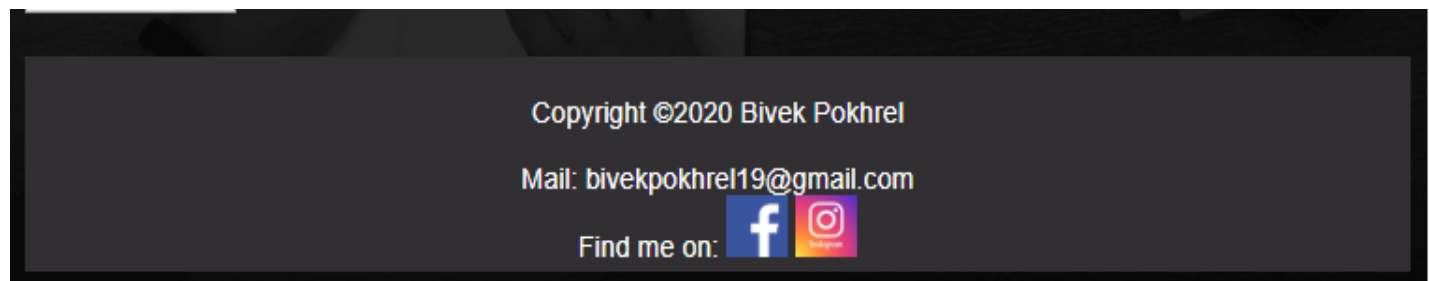


Figure 20: Before test 3.

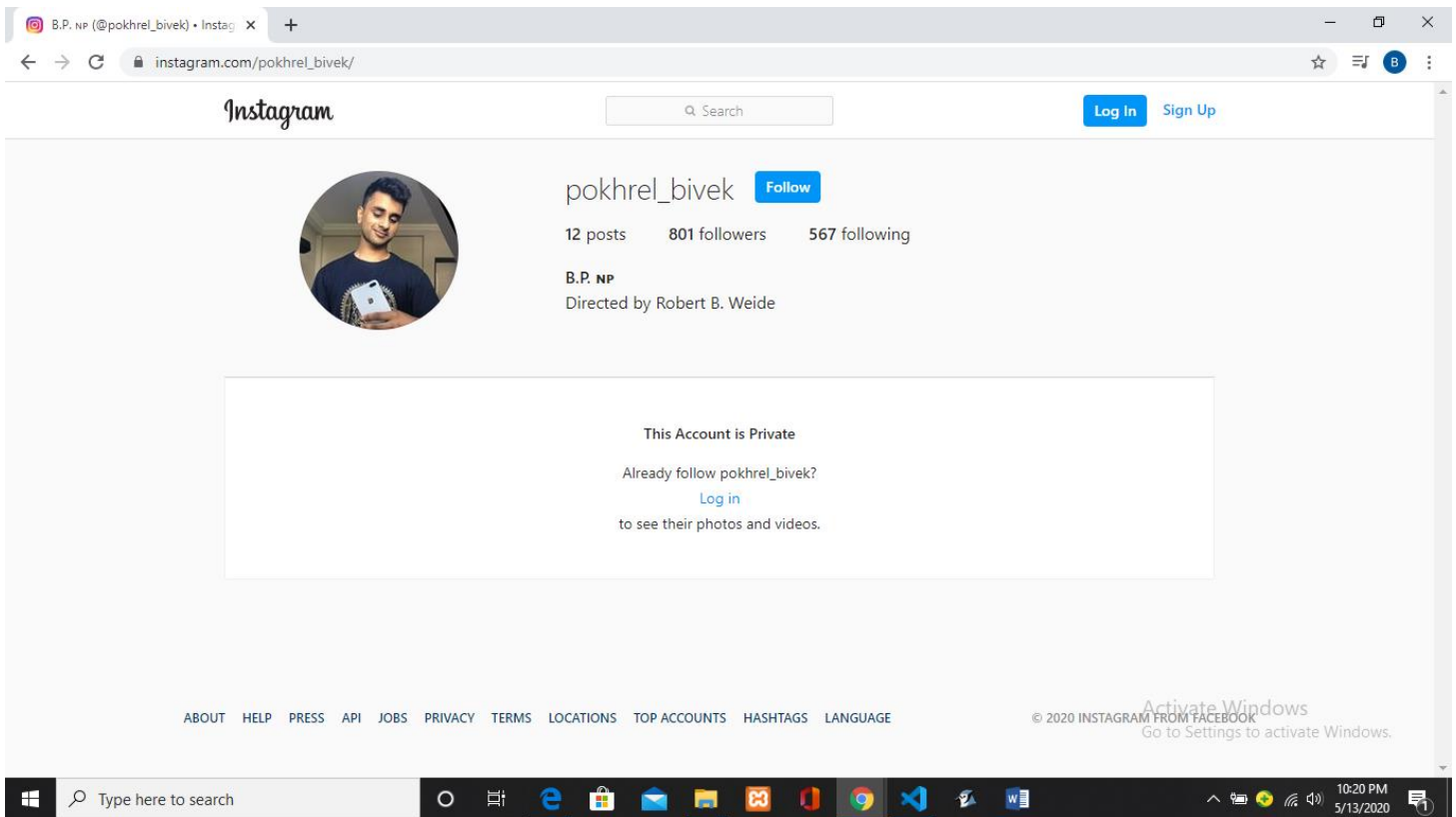


Figure 21: After test 3.

#### 4.4. Test 4

Objective	To change the quote present in Home page using JavaScript.
Action	The Change Quote button was clicked
Expected result	The quote has to be changed.
Actual result	The quote changed.
Conclusion.	Test Successful

Table 4: Summary of test 4.

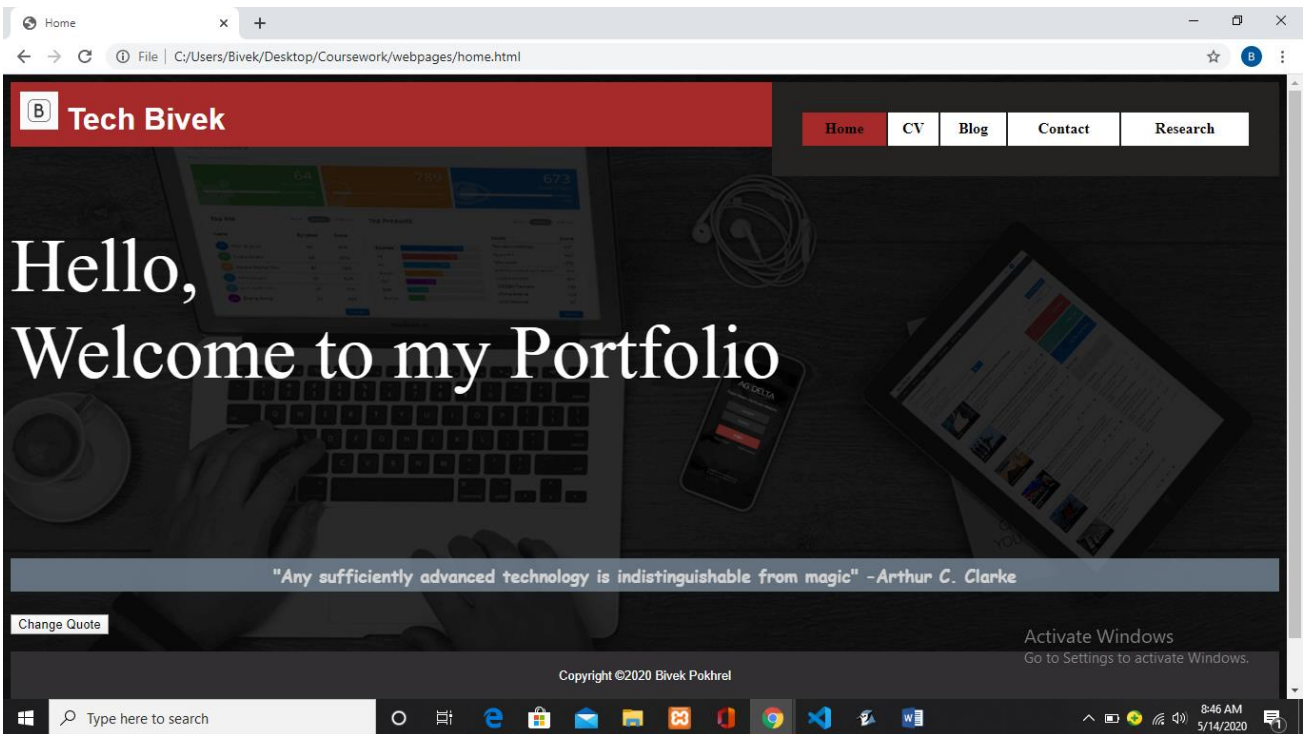


Figure 23: Before test 4.

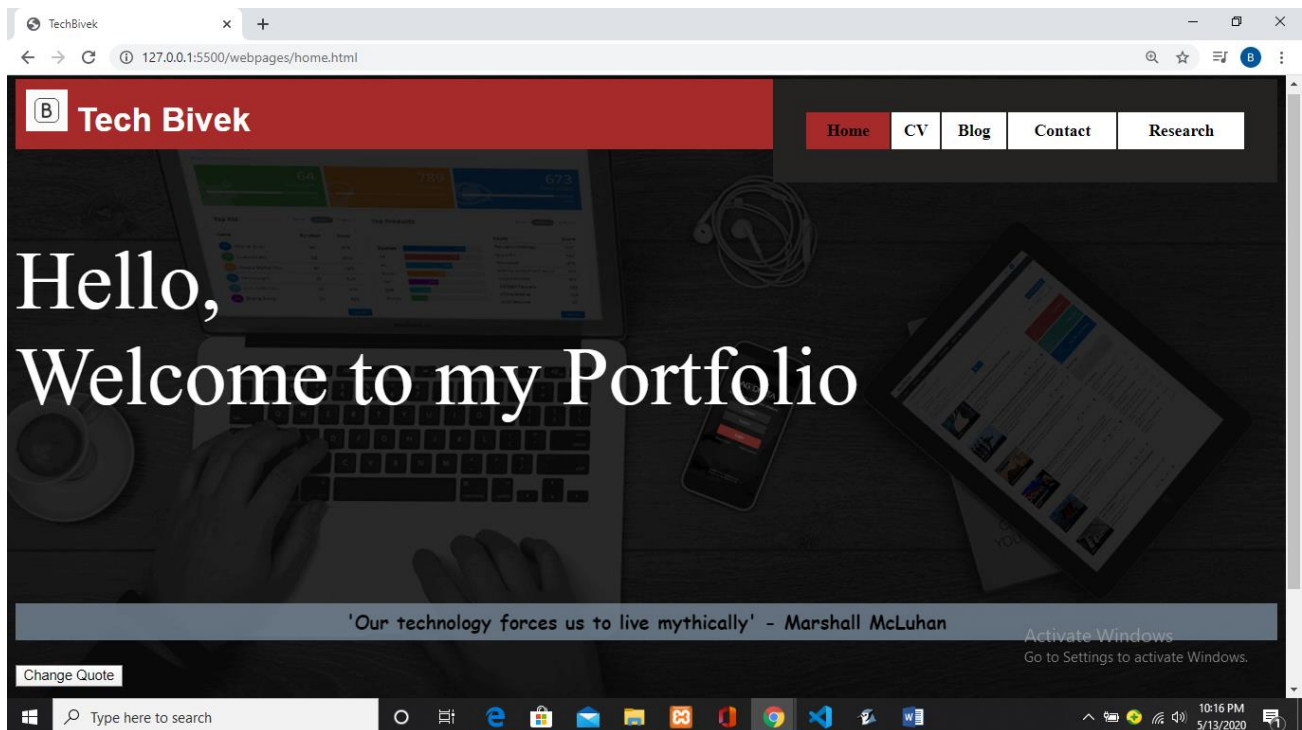


Figure 22: After test 4.



**4.5. Test 5.**

Objective	To observe the hover effect when cursor of mouse hovers the navigation bar.
Action	Hovered the pointer of mouse around the navigation links of navigation bar.
Expected result	Hover effect has to be seen.
Actual result	Hover effect was seen.
Conclusion.	Test Successful

Table 5: Summary of test 5.

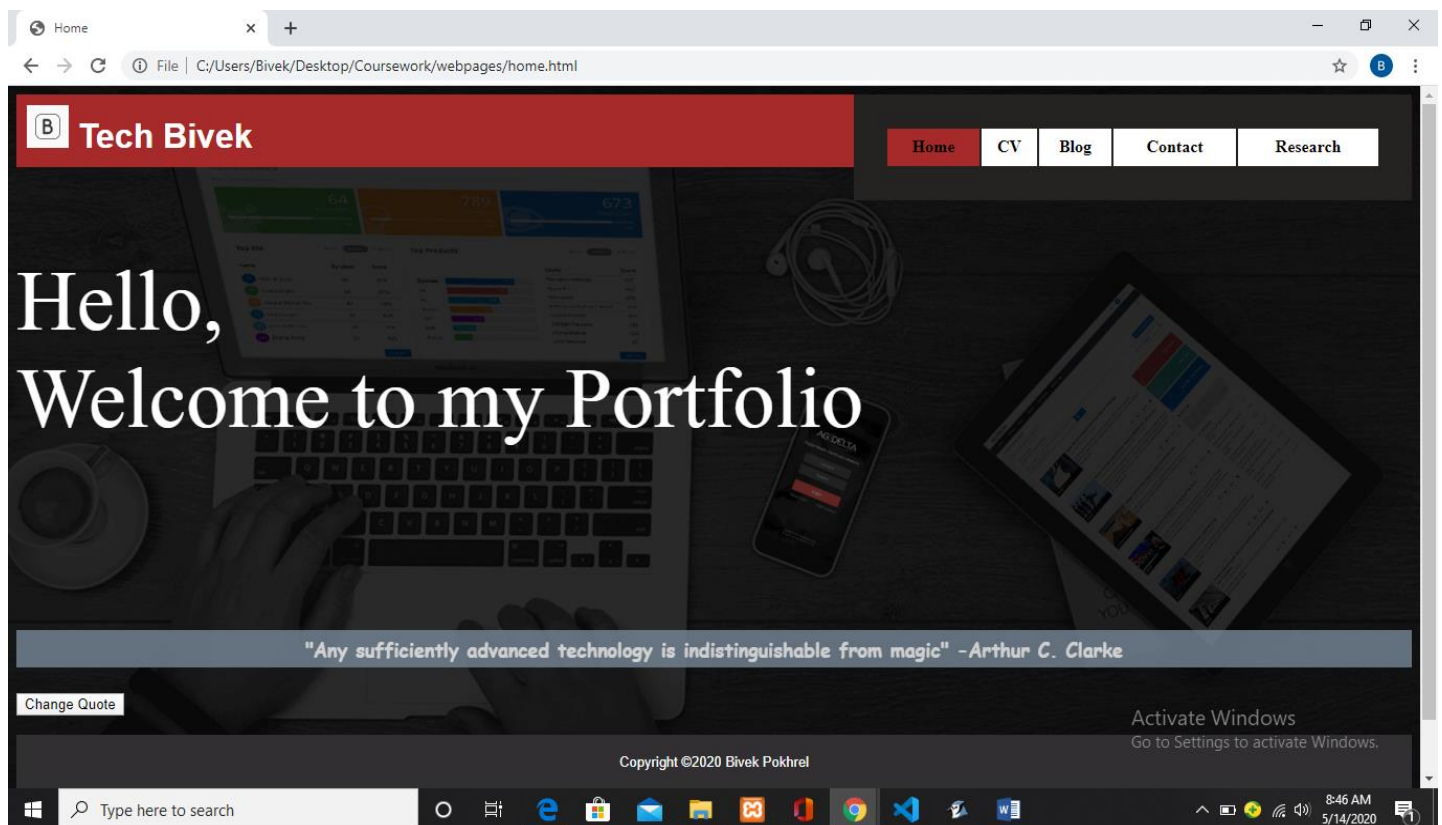


Figure 24: Before test 5.



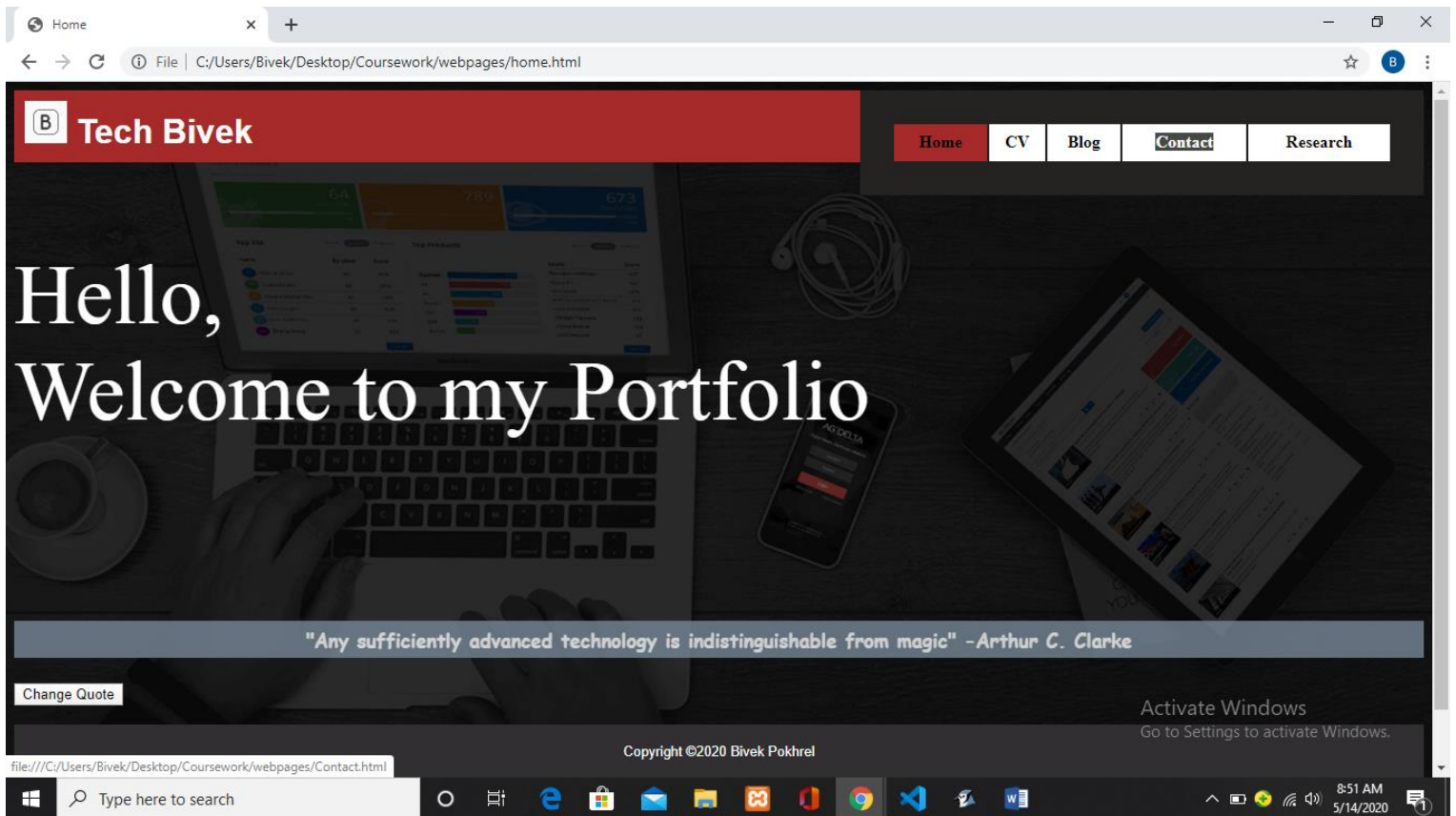


Figure 25: After test 5.

## 5. Conclusion.

I would like to express my gratitude to all the teachers who taught me about HTML, CSS and JavaScript. With their help, I was able to complete my coursework. I had a lot of confusions during online classes. Those confusions were cleared while doing the coursework. The coursework was so interesting and a bit difficult as well. First of all the wireframes for all the webpages were made with help of balsamiq tool which helped me to develop proper mind plan and concentration before starting to work with HTML, CSS and JavaScript. I had little knowledge about website development before. While doing it, I came to know a lot of HTML tags. HTML was used to make the structure of all webpages. Also, I came to know how CSS and JavaScript works. CSS3 was used to design the webpages while JavaScript was used to do functions such as form validation and to change the style of whole text using a button. All the webpages were made with the help of Visual Studio Code, a text editor tool.

At the end, I would like to say that this coursework has helped me to take a lot of assets regarding HTML, CSS and JavaScript. It also taught me what a portfolio website is and why it is important for one's life. The research also helped me to know about the styles and designs of professional website.

## 6. Bibliography

Ragaine, L., 2020. *Kinsta*. [Online]

Available at: <https://kinsta.com/blog/portfolio-website/>

[Accessed 4 March 2020].